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Innovation in alarm & signal

CATALOGUE 2018.02

Warning/ Signal & Electric Horn

Qlight

Company Introduction

Qlight Gives You a Brighter Future!

Qlight has been a world-leading provider of visual and audible status indicating systems and solutions for the last three decades. We pride ourselves in developing products which help our customer's improve productivity, safety, and quality control in the industrial automation and commercial industries. Our strong dedication to innovative products, quality assurance, well-established supply chain, customizable manufacturing and strong customer relationships have helped us earn the top market share in Korea and China. These core values have also been fundamental to our continued growth into new markets.
Qlight's products are certified by the International Quality Management System (ISO14001), IECEx, ATEX, UL, NEPSI, CE, Lloyd, KIMM, and KOSHA which display our dedication to stringent quality control and product development based on safety-pursuing industry standards.
Our assembly lines in Busan, South Korea and Shanghai, China presently provide a variety of more than 450 of products to more than 40 countries, based on sales offices in South Korea (Seoul, Busan) China (Shanghai, Shenzhen, Shenyang, Tianzhen, Tianjin, Wenzhou), and the U.S. (Silicon Valley). The Qlight brand reflects 30 years of research and development, certification, and manufacturing experience.
We will continue to establish ourselves as a industry-leading provider by pushing the boundaries of technology in order to enhance our customer's efficiency and safety in every industry and region of the world.

Qlight Global Networks

Country	Company name	Address	Phone
Korea	Qlight Co., Ltd.	HQ | A-412, 579, Gyeongin-ro, Guro-gu, Seoul, Korea	+82-80-328-2222
		Factory |185-25, Mukbang-Ro, Sangdong-Myeon, Gimhae-si, Gyeongsangnamdo, Korea	+82-80-328-1111
USA	Qlight USA, Inc.	#341, 3003 North First St., San Jose, CA 95134 USA	+1-408-519-5740
China	SHANGHAI Qlight Electronics Co.,Ltd	#19, Nanda Road, Baoshan Area, Shanghai, China	+86-21-6651-7100

Qlight Clients

Heavy industry / Ship building / Automotive / Steel / Machinery / Petrochemical / Power plants / Electronics / Semiconductor / Emergency Vehicles

HYUNDAI HEAVY INDUSTRIES CO.,LTD. | posco | DSME | SAMSUNG HEAVY INDUSTRIES | DOOSAN Doosan Infracore | HYUNDAI WIA
SK hynix | Hanwha | HYUNDAI | SAMSUNG ELECTRONICS | ex Korea Expressway Corporation | LG Electronics
BOEING | BROMMA | CAT | Danfoss | PSA

Company History

Qlight has been striving to accomplish our mission to provide visual and audible status indicating systems and solutions to enhance our customer's work safety and efficiency for the last three decades.

1986-1992	1993-2005	2006-2010	2011 to Present	- Future
Business foundation and consolidation	Growing as a signal transmission device specialist	A great leap forward & business reconstruction	New engines for growth	The 2nd growth and globalization

2017	08	ISO 14001 : 2015 certificate aquired
	02	Obtained ICAO certification for SAOL1
2016	11	Obtained the patent for "multi-functional modular signal tower light" (Patent # : 10-1676863)
	09	Obtained the patent for "Emergency Vehicle Lightbar" (Patent # : 10-1662283)
	07	Obtained UL certificate for LED signal lights Q series
		Obtained the patent for "Bar style LED work lights" (Patent # : 10-1598123)
2015	09	The second headquarter factory built
	06	Limit switch models (3 items including SW2TS) acquired certificates from RMRS
	03	LED work lights (QML150/250, QMFL 500/600) UL listed
2014	10	Established the Qlight USA, Inc. in San Jose, CA.
		Horn which that emits light patented (Patent # : 10-1452447)
		Fan/ tilt type bracket patented (Patent # : 10-1452445)
	09	LED strobe light with multi-lens patented (Patent # : 10-1444391)
	08	Explosion proof product family including SNE, SNES, SESA, SEA, SPNA acquired IECEx certificates
	06	Selected as a promising export company by Small & Medium Business Admin., Korea
	01	Non-sparking explosion proof tower lights including ST45ML and STB45ML acquired KGS and NEPSI certificates
2013	01	Portable warning lights for agricultural machine applications patented (Patent # : 10-1226959)
2012	12	Explosion proof warning lights (SNE, SNES) acquired CCS certificates
		LED work light with cylindrical lens attached patented (Patent # : 10-1219020)
	09	Explosion proof warning lights (SESA, SEA, SPNA) and heavy-duty warning lights (SH1, SED, SEWN30) certified by CCS
	01	LED warning light with LED reflector patented (Patent # : 10-1108102)
2011	11	SNE, SNES certified by NEPSI, SNE, SNES, SESA, SEA, SPNA certified by KOSHA
	08	KCC (Korea Communications Commission) certificate acquired
	07	Light equipment applying prism system patented (Patent # : 10-1051056)
2010	05	QEB certified by KIMM
		LED warning light, bulb revolving warning light patented (Patent # : 10-0961472)
	03	Research and development center established
2009	12	SSEL certified by KIMM
		LED tower lights compliant with the RoHS directive
2008	04	Motor drive system patented (Patent # : 20-0439536)
	03	LED revolving type lens patent acquired (patent # :10-0808669)
2007	11	Explosion proof electric horn (SPNA) acquired NEPSI certificates
	05	Tower light models including ST45, ST56,ST80) UL listed
2005	07	Heavy-duty products for vessel applications acquired Lloyd's (UK's Maritime Classification Society) certificates
	04	ABS certificates acquired for 18 products including SH1
2004	06	ISO 9001:2000 certificates acquired
2001	02	Established Shanghai Qlight Electronic Co.,Ltd. in China
2000	07	Established Qlight Limited
1993	11	Nominated for developing domestic explosion proof warning lights by Korean Ministry of Science & Technology
1988	03	Developed limit switches for vessel applications
1986	07	Established Qlight

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Warning/ Signal/ Stackable Lights

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Specification List for Revolving Warning/ Signal Lights

LED Revolving Warning Lights

Model number		S60LR	S80DR	S80LR	S80DRK	S80LRK	S80ADR	S80ALR
Voltage		DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
Dimension (mm)	Diameter	Ø70	Ø83	Ø83	Ø84	Ø84	Ø83	Ø83
	Height	121	131	133	153	155	125	127
	Depth	-	-	-	-	-	113	113
Volume		-	Max 90dB at 1m	Max 90dB at 1m	-	-	Max 90dB at 1m	Max 90dB at 1m
Material		Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Mounting structure		Self stand	Self stand	Self stand	Mount bracket	Mount bracket	Wall mount	Wall mount
Protection rating		IP44	IP44	IP44	IP44	IP44	IP44	IP44
Certificates								
Customization		Wall mount	Wall mount	Wall mount	Pole mount	Pole mount	-	-
Page		P12	P16	P16	P17	P17	P18	P18

Model number		S100LR	S100MLR	S125LR	S125MLR	SKMPLR	SKLR	SKMLR
Voltage		DC12V, DC24V AC110V, AC220V	DC12V, DC24V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V	DC12V, DC24V	DC12V, DC24V	DC12V, DC24V
Dimension (mm)	Diameter	Ø101	Ø101	Ø119	Ø119	-	-	-
	Height	152	149	158	161	142	135	138
	Depth	-	-	-	-	185(Length)	183(Length)	183(Length)
Volume		Max 90dB at 1m	Max 90dB at 1m	Max 90dB at 1m	Max 90dB at 1m	-	-	-
Material		Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-PC
Mounting structure		Self stand	Detachable magnet	Self stand	Detachable magnet	Detachable magnet	Self stand	Detachable magnet
Protection rating		IP44	IP54	IP44	IP54	IP54	IP54	IP54
Certificates								
Customization		Wall mount 2 tones buzzer S100DR, S100RLR	AC type	Wall mount 2 tones buzzer S125RLR	AC type	Oval-shaped Rubber Magnet	-	-
Page		P32	P33	P39	P40	P44	P45	P45

Model number		S150ULR	S150ULR-FT	S150RLR	S150RLR-FT		
Voltage		DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V		
Dimension (mm)	Diameter	Ø138	Ø138	Ø140	Ø140		
	Height	193	196	189	194		
	Depth						
Volume		Max 90dB at 1m	Max 90dB at 1m	-	-		
Material		Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-STS	Lens-PC Housing-STS		
Mounting structure		Self stand	Mount bracket	Self stand	Mount bracket		
Protection rating		IP44	IP44	IP44	IP44		
Certificates							
Customization		2 tones buzzer	2 tones buzzer	-	-		
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Specification List for Revolving Warning/ Signal Lights

Bulb Revolving Warning Lights

Model number		S60R	S80R	S80U	S80RK	S80UK	S80AR	S80AU
Voltage		DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
Dimension (mm)	Diameter	Ø70	Ø83	Ø83	Ø84	Ø84	Ø83	Ø83
	Height	121	131	133	153	155	125	127
	Depth	-	-	-	-	-	113	113
Volume		-	Max 90dB at 1m	Max 90dB at 1m	-	-	Max 90dB at 1m	Max 90dB at 1m
Material		Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Mounting structure		Self stand	Self stand	Self stand	Mount bracket	Mount bracket	Wall mount	Wall mount
Protection rating		IP44	IP44	IP44	IP44	IP44	IP44	IP44
Certificates		CE	CE	-	-	-	-	-
Customization		Wall mount	Wall mount	Wall mount	Pole mount	Pole mount	-	-
Page		P12	P13	P13	P14	P14	P15	P15

Model number		S100R	S100U	S100UA	S100M	S125R	S125U	S125M
Voltage		DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V
Dimension (mm)	Diameter	Ø101	Ø101	Ø101	Ø101	Ø119	Ø119	Ø119
	Height	149	152	155	149	161	158	161
	Depth							
Volume		Max 90dB at 1m	Max 90dB at 1m	Max 90dB at 1m	Max 90dB at 1m	Max 90dB at 1m	Max 90dB at 1m	Max 90dB at 1m
Material		Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Mounting structure		Self stand	Self stand	Self stand	Detachable magnet	Self stand	Self stand	Detachable magnet
Protection rating		IP44	IP44	IP44	IP54	IP44	IP44	IP54
Certificates		CE	-	-	-	CE	-	-
Customization		Wall mount Efficient product (S100E), FT Bracket equipped	Wall mount 2 tones buzzer Dome type lens (S100UR)	Wall mount 2 tones buzzer	AC type	Wall mount Efficient product (S125E), FT Bracket equipped	Wall mount 2 tones buzzer	AC type
Page		P29	P30	P30	P31	P36	P37	P38

Model number		SK/ SKH	SKM/ SKMH	SKMP/ SKMPH	S150U	S150U-FT	S150R	S150R-FT
Voltage		DC12V, DC24V	DC12V, DC24V	DC12V, DC24V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
Dimension (mm)	Diameter	-	-	-	Ø138	Ø138	Ø140	Ø140
	Height	135	138	142	193	196	189	194
	Depth	183(Length)	183(Length)	185(Length)	-	-	-	-
Volume		-	-	-	Max 90dB at 1m	Max 90dB at 1m	-	-
Material		Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-STS	Lens-PC Housing-STS
Mounting structure		Self stand	Detachable magnet	Detachable magnet	Self stand	Mount bracket	Self stand	Mount bracket
Protection rating		IP54	IP54	IP54	IP44	IP44	IP44	IP44
Certificates		-	-	-	-	-	CE	CE
Customization		-	-	Oval-shaped rubber magnet	2 tones buzzer	2 tones buzzer	-	-
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Specification List for Revolving Warning/ Signal Lights

Bulb Revolving Warning Lights

Model number		S180R	S180R-FT	S180U	SR	SRP	SJ	SJP
Voltage		DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
Dimension (mm)	Diameter	Ø176	Ø176	Ø186	Ø83	Ø83	□95×95	□95×95
	Height	206	210	216	162-350	363-551	183-375	387-579
	Depth							
Volume		-	-	Max 90dB at 1m	-	-	Max 90dB at 1m	Max 90dB at 1m
Material		Lens-AS Housing-STS	Lens-AS Housing-STS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Mounting structure		Self stand	Mount bracket	Self stand	Self stand	Pole mount	Self stand	Pole mount
Protection rating		IP44	IP44	IP44	IP44	IP44	IP44	IP44
Certificates		-	-	-	-	-	CE	CE
Customization		-	-	2 tones buzzer Mount hole PCD 120mm	4 layers, Color combination except for standard	4 layers, Color combination except for standard	2 tones buzzer 4 layers, Color combination except for standard	2 tones buzzer 4 layers, Color combination except for standard
Page		P60	P60	P61	P73	P73	P75	P75

LED Steady/ Flashing Signal Lights

Model number		S50L	S60L	S80L	S80LK	S80AL	S100L	S125L
Voltage		DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
Dimension (mm)	Diameter	Ø50	Ø70	Ø83	Ø84	Ø83	Ø101	Ø119
	Height	60	121	133	155	127	152	158
	Depth	-	-	-	-	113	-	-
Volume		-	-	Max 90dB at 1m	-	Max 90dB at 1m	Max 90dB at 1m	Max 90dB at 1m
Material		Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Mounting structure		Self stand	Self stand	Self stand	Mount bracket	Wall mount	Self stand	Self stand
Protection rating		IP44	IP44	IP44	IP44	IP44	IP44	IP44
Certificates		-	-	CE	-	-	CE, KIMM	CE, KIMM
Customization		Wall mount	Wall mount	Wall mount	Pole mount	-	Wall mount 2 tones buzzer	Wall mount 2 tones buzzer
Transistor								
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Specification List for Revolving Warning/ Signal Lights

LED Steady/ Flashing Signal Lights/ Stackable Lights

Model number		SKTL	SKTLB	SKTLM	SKTLBM	S150UL	S150UL-FT	S150RL	S150RL-FT
Voltage		DC12V, DC24V	DC12V, DC24V	DC12V, DC24V	DC12V, DC24V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
Dimension (mm)	Diameter	□105×105	□105×105	□105×105	□105×105	Ø138	Ø138	Ø140	Ø140
	Height	98	98	90	90	193	196	189	194
	Depth								
Volume		-	Max 105dB at 1m	-	Max 105dB at 1m	Max 90dB at 1m	Max 90dB at 1m	-	-
Material		Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-STS	Lens-PC Housing-STS
Mount bracket		Self stand	Self stand	Detachable magnet	Detachable magnet	Self stand	Mount bracket	Self stand	Mount bracket
Protection rating		IP66	IP66	IP66	IP66	IP44	IP44	IP44	IP44
Certificates									
Customization		-	-	Color combination except for standard	Color combination except for standard	2 tones buzzer	2 tones buzzer	-	-
Page		P46	P46	P47	P47	P58	P58	P59	P59

Model number		S80SOL	S100SOL	S125SOL	SRL	SRLP	SJL	SJLP	S125TL
Voltage		DC2.4V	DC2.4V	DC2.4V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
Dimension (mm)	Diameter	Ø83	Ø101	Ø119	Ø83	Ø83	□95×95	□95×95	Ø125
	Height	143	158	175	162-350	363-551	183-375	387-579	207-407
	Depth								
Volume		-	-	-	-	-	Max 90dB at 1m	Max 90dB at 1m	-
Material		Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Mount bracket		Self stand	Self stand	Self stand	Self stand	Pole mount	Self stand	Pole mount	Self stand
Protection rating		IP54	IP54	IP54	IP44	IP44	IP44	IP44	IP44
Certificates		CE	CE	CE	-	-	-	-	-
Customization		Wall mount Magnet mount	Wall mount Magnet mount	Wall mount Magnet mount	-	-	2 tones buzzer	2 tones buzzer	Color combination except for standard, Strobe type(S125TS)
Transistor		-	-	-	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type
Page		P65	P66	P66	P74	P74	P76	P76	P77

Specification List for Revolving Warning/ Signal Lights

LED Steady/ Flashing Signal Lights

Model number		Q60L	Q60LW	Q60LP	Q80L	Q80LW	Q80LP
Voltage		DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V
Dimension (mm)	Diameter	Ø69	Ø69	Ø69	Ø83	Ø83	Ø83
	Height	100	129	334	120	157	278
	Depth	-	107	-	-	114	-
Volume		Max 80dB at 1m	Max 80dB at 1m	Max 80dB at 1m	Max 80dB at 1m	Max 80dB at 1m	Max 80dB at 1m
Material		Lens-PC Housing-ABS	Lens-PC Housing-ABS Mount-PC	Lens-PC Housing-ABS Pole-Al	Lens-PC Housing-ABS	Lens-PC Housing-ABS Mount-PC	Lens-PC Housing-ABS Pole-Al
Mounting structure		Self stand	Wall mount	Pole mount	Self stand	Wall mount	Pole mount
Protection rating		IP65	IP65	IP65	IP65	IP65	IP65
Certificates		CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL
Customization		-	-	Customized pole length available	-	-	Customized pole length available
Page		P48	P48	P49	P50	P50	P51

Model number		Q100L	Q100LW	Q100LP	Q125L	Q125LW	Q125LP
Voltage		DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V
Dimension (mm)	Diameter	Ø97	Ø97	Ø97	Ø116	Ø116	Ø116
	Height	136	173	294	155	192	313
	Depth	-	121	-	-	130	-
Volume		Max 80dB at 1m	Max 80dB at 1m	Max 80dB at 1m	Max 80dB at 1m	Max 80dB at 1m	Max 80dB at 1m
Material		Lens-PC Housing-ABS	Lens-PC Housing-ABS Mount-PC	Lens-PC Housing-ABS Pole-Al	Lens-PC Housing-ABS	Lens-PC Housing-ABS Mount-PC	Lens-PC Housing-ABS Pole-Al
Mounting structure		Self stand	Wall mount	Pole mount	Self stand	Wall mount	Pole mount
Protection rating		IP65	IP65	IP65	IP65	IP65	IP65
Certificates		CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL
Customization		-	-	Customized pole length available	-	-	Customized pole length available
Page		P52	P52	P53	P54	P54	P55

Multiple Function LED Signal Lights

Model number		MFL60	MFL80	MFL100	MFL125
Voltage		DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V
Dimension (mm)	Diameter	Ø69	Ø83	Ø97	Ø116
	Height	100	120	136	155
	Depth	-	-	-	-
Volume		Max 80dB at 1m	Max 80dB at 1m	Max 80dB at 1m	Max 80dB at 1m
Material		Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS
Mounting structure		Self stand	Self stand	Self stand	Self stand
Protection rating		IP65	IP65	IP65	IP65
Certificates		CE	CE	CE	CE
Customization		Wall mount	Wall mount	Wall mount	Wall mount
Page		P63	P63	P64	P64

Multiple Color LED Signal Lights

Model number		SWTC	SWTCE
Voltage		DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
Dimension (mm)	Diameter	Ø90(Half)	Ø90(Half)
	Height	216	216
	Depth	46	46
Volume		Max 90dB at 1m	Max 90dB at 1m
Material		Lens-PC Housing-ABS	Lens-PC Housing-ABS
Mounting structure		Wall mount	Wall mount
Protection rating		IP55	IP55
Certificates		CE	CE
Customization		Color combination except for standard, 2 tones buzzer	Color combination except for standard, 2 tones buzzer
Transistor		NPN type	NPN type
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Specification List for Revolving Warning/ Signal Lights

Multiple Color LED Signal Lights

Model number		SMCL80	SMCL100	SMCL125	QMCL60	QMCL80	QMCL100	QMCL125
Voltage		DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V	DC12V, DC24V	DC12V, DC24V	DC12V, DC24V
Dimension (mm)	Diameter	Ø83	Ø101	Ø119	Ø69	Ø83	Ø97	Ø116
	Height	132	152	158	80	85	95	110
	Depth							
Volume		Max 90dB at 1m	Max 90dB at 1m	Max 90dB at 1m	Max 80dB at 1m	Max 80dB at 1m	Max 80dB at 1m	Max 80dB at 1m
Material		Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Mounting structure		Self stand	Self stand	Self stand	Self stand	Self stand	Self stand	Self stand
Protection rating		IP44	IP44	IP44	IP65	IP65	IP65	IP65
Certificates		CE	CE	CE	CE	CE	CE	CE
Customization		Wall mount Color combination except for standard	Wall mount Color combination except for standard	Wall mount Color combination except for standard	Wall mount	Wall mount	Wall mount	Wall mount
Transistor		NPN type	NPN type	NPN type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type
Page		P67	P67	P68	P69	P69	P70	P70

LED Strobe Signal Lights

Model number		S80NS	S80LS	S125LSE				
Voltage		DC12V-24V	DC12V-24V	DC12V, DC24V				
Dimension (mm)	Diameter	Ø83	Ø83	Ø123				
	Height	111	106	125				
	Depth	-	-	-				
Volume		-	-	-				
Material		Lens-PC Housing-ABS+GF	Lens-PC Housing-ABS	Lens-PC Housing-ABS				
Mounting structure		Self stand	Self stand	Self stand				
Protection rating		IP66	IP65	IP54				
Certificates		-	CE, UL	-				
Customization		-	-	Wall mount				
Page		P26	P27	P28				

Xenon Lamp Strobe Signal Lights

Model number		Q70NSC	Q70NSN	S80S	S80SM	S80AS	S100S	S100SM
Voltage		AC110V	DC12V-80V AC110V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V
Dimension (mm)	Diameter	Ø72	Ø72	Ø83	Ø83	Ø83	Ø101	Ø101
	Height	128	128	106	106	127	113	113
	Depth	-	-	-	-	113	-	-
Volume		-	-	-	-	Max. 90dB at 1m	-	-
Material		Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Mounting structure		Convenient wiring	Self stand	Self stand	Detachable magnet	Wall mount	Self stand	Detachable magnet
Protection rating		IP66	IP66	IP54	IP54	IP44	IP54	IP54
Certificates		-	-	CE	-	-	CE, KIMM	-
Customization		-	-	Wall mount	AC type	Dome type lens	Wall mount	AC type
Page		P22	P23	P24	P24	P25	P35	P35

Specification List for Revolving Warning/ Signal Lights

Model number		S125S	S125SM	S150US	S150US-FT	S150RS	S150RS-FT	S180US/ S180UHS
Voltage		DC12V, DC24V AC110V, AC220V	DC12V, DC24V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
Dimension (mm)	Diameter	Ø123	Ø123	Ø138	Ø138	Ø140	Ø140	Ø186
	Height	125	123	193	196	189	194	216
	Depth							
Volume		-	-	Max 90dB at 1m	Max 90dB at 1m	-	-	Max 90dB at 1m
Material		Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-STS	Lens-PC Housing-STS	Lens-ABS Housing-ABS
Mounting structure		Self stand	Detachable magnet	Self stand	Mount bracket	Self stand	Mount bracket	Self stand
Protection rating		IP54	IP54	IP44	IP44	IP44	IP44	IP44
Certificates		CE	-	-	-	-	-	-
Customization		Wall mount	AC type	2 tones buzzer, High brightness (S150UHS)	2 tones buzzer, High brightness (S150UHS-FT)	High brightness (S150RHS)	High brightness (S150RHS-FT)	2 tones buzzer, Mount hole PCD 120mm
Page		P42	P42	P58	P58	P59	P59	P62

S50 series

Ø50mm Signal Lights

IP44 -30~+50℃ RoHS

S50B

S50L

Common Specifications(S50B/ S50L)

- Ø50mm compact signal lights
- Enhanced visibility that employs a special scattering lens
- Suitable for office-automation applications, small machines, and portable automation equipment with confined space environments
- Powerful omni-directional light source that enables high visibility
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS(for S50L Model)
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP44

S50B Bulb Steady Signal Light

- Standard condition operates with steady light function but the flashing light condition can be enabled with external contacts
- Employs a special filament to prevent damage caused by possible voltage variations

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S50B	DC12V	0.437A	12V5W	G14 9S	1	-	0.05kg	● R-Red
	DC24V	0.290A	24V5W	G14 9S	2		0.05kg	● A-Amber
	AC110V	0.051A	110V5W	T16x28 9S	3		0.05kg	● G-Green
	AC220V	0.025A	220V5W	T16x28 9S	4		0.05kg	● B-Blue

S50L LED Steady/ Flashing Signal Light

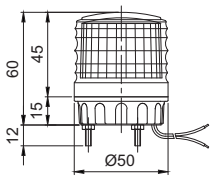
- Built-in switch for selection between steady and flashing mode
- Flashing rate : 60-80 flashes/min
- Compliant with RoHS directive

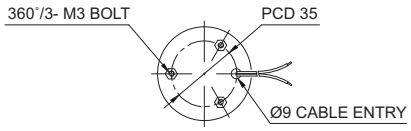
Model number	Voltage	Current	Certificates	Weight	Color
S50L	DC12V	0.047A	-	0.08kg	● R-Red
	DC24V	0.040A		0.08kg	● A-Amber
	AC110V	0.042A		0.08kg	● G-Green
	AC220V	0.042A		0.08kg	● B-Blue

Technical Diagram

(Units : mm)

S50B/ S50L





Customization

- Wall mount bracket options:
  Bracket structure allows for threading through the bracket hole or into the wall mount

Wall Mount Bracket
TWS45

Wall Mount Bracket
TWA45

Wiring Instructions

- S50B Model : External power line standard UL1007 AWG22(0.3sq) 400mm
- S50L Model : External power line standard UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

Ordering Specification

S50B	-	220	-	R
[Model number]		[Voltage]		[Color]
• S50B • S50L		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

S60 series

Ø60mm Warning/ Signal Lights

IP44 -20~+50°C

S60R

S60LR

S60L

Common Specifications(S60R/ S60LR/ S60L)

- Ø60mm compact warning/ signal lights
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -20°C to +50°C
- Protection rating : IP44

S60R Bulb Revolving Warning Light

- Revolving speed : 120-140RPM
- Certificates : CE Compliant

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S60R	DC12V	0.484A	12V5W	T16x35 15S	5	CE	0.18kg	● R-Red
	DC24V	0.310A	24V5W	T16x35 15S	6		0.18kg	● A-Amber
	AC110V	0.072A	110V5W	T16x35 15D	7	-	0.27kg	● G-Green
	AC220V	0.036A	220V5W	T16x35 15D	8		0.27kg	● B-Blue

S60LR LED Revolving Warning Light

- Revolving speed : 120-140RPM

Model number	Voltage	Current	Certificates	Weight	Color
S60LR	DC12V	0.183A	-	0.21kg	● R-Red
	DC24V	0.127A		0.21kg	● A-Amber
	AC110V	0.040A		0.28kg	● G-Green
	AC220V	0.020A		0.28kg	● B-Blue

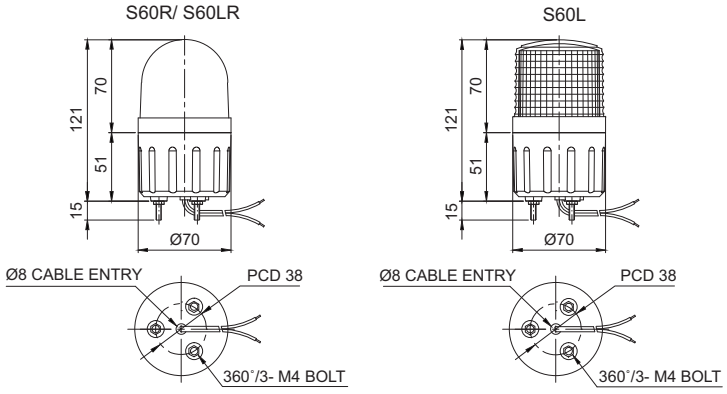
S60L LED Steady/ Flashing Signal Light

- Flashing rate : 60-80 flashes/min

Model number	Voltage	Current	Certificates	Weight	Color
S60L	DC12V	0.118A	-	0.15kg	● R-Red
	DC24V	0.083A		0.15kg	● A-Amber
	AC110V	0.026A		0.20kg	● G-Green
	AC220V	0.013A		0.20kg	● B-Blue

Technical Diagram

(Units : mm)



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- DC type for S60R/S60LR : Black output line is negative(-)
- S60L can be wired regardless of polarity

Customization

- Wall mount bracket options:
  Bracket structure allows for threading through the bracket hole or into the wall mount

Wall Mount Bracket **TWS45**

Wall Mount Bracket **TWA45**

Ordering Specification

S60R	-	24	-	R
[Model number]		[Voltage]		[Color]
• S60R • S60LR • S60L		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

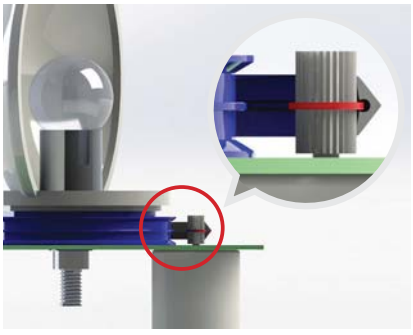
S80 series

Ø80mm Bulb Revolving Warning Lights

IP44 | -20~+50°C | BUZZER | 90dB

S80R

S80U



V belt type power transfer system feature

Designed to minimize the abrasion of the belt, and to efficiently deliver torque from the drive shaft to the reflector.
(Patent registered)

S80R/ S80U Bulb Revolving Warning Lights

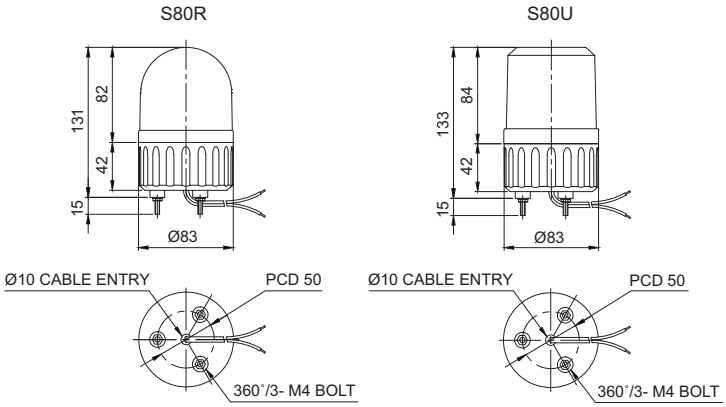
- Ø80mm bulb revolving warning lights
- Adopts a special power transmission system that reduces noise and wear
- Built-in buzzer available (Volume : Max 90dB at 1m)
- Revolving speed : 120-140RPM
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -20°C to +50°C
- Protection rating : IP44
- Certificates : CE Compliant

Specifications

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S80R S80U	DC12V	0.484A	12V5W	T16x35 15S	5	CE	0.28kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.310A	24V5W	T16x35 15S	6		0.28kg	
	AC110V	0.080A	12V5W	T16x35 15S	5	-	0.48kg	
	AC220V	0.040A	12V5W	T16x35 15S	5		0.48kg	

Technical Diagram

(Units : mm)



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- DC Type : Black output line is negative(-)

Customization

- Wall mount bracket options :
  Bracket structure allows for threading through the bracket hole or into the wall mount

Wall Mount Bracket **TWS80**

Wall Mount Bracket **TWA80**

Ordering Specification

S80U	-	BZ	-	220	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S80R • S80U		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

IP44 -20~+50℃

S80RK

S80UK

S80RK/ S80UK Bulb Revolving Warning Lights

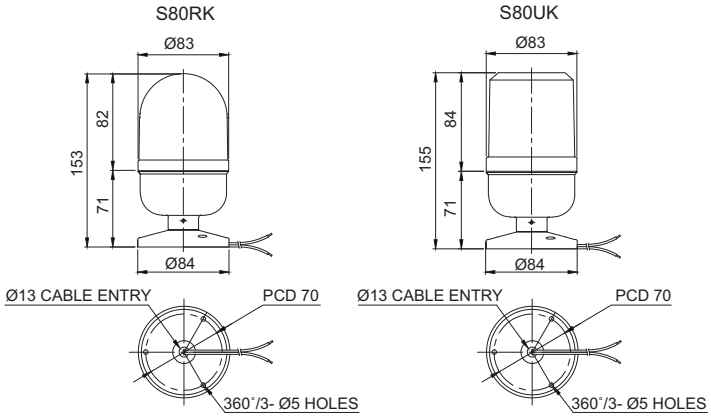
- Ø80mm bulb revolving warning lights
- Adopts a special power transmission system that reduces noise and wear
- Circular mount bracket allows convenient installation
- No buzzer options available
- Revolving speed : 120-140RPM
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -20°C to +50°C
- Protection rating : IP44

Specifications

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S80RK S80UK	DC12V	0.484A	12V5W	T16x35 15S	5	-	0.26kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.310A	24V5W	T16x35 15S	6		0.26kg	
	AC110V	0.080A	12V5W	T16x35 15S	5		0.48kg	
	AC220V	0.040A	12V5W	T16x35 15S	5		0.48kg	

Technical Diagram

(Units : mm)



Wiring Instructions

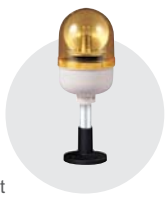
- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- DC Type : Black output line is negative(-)

Customization

- Pole mount type

Standard	QZ18	SZ18	SL18	QLA18
Steel	PC	Al	Al	PC

※ Please refer to page144-147 for detailed dimension of mount bracket



Ordering Specification

S80RK	-	24	-	R
[Model number]		[Voltage]		[Color]
• S80RK • S80UK		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

IP44 | -20~+50°C | BUZZER | 90dB

S80AR

S80AU

S80A series enable easy wiring

S80A series enables easy wiring with its terminal block attached to the fixed base plate. With this system the contacts in the housing sends power directly to the terminal block.

S80AR/ S80AU Bulb Revolving Warning Lights

- Equipped wall mount allows for easy assembly. Additional mounting brackets not required
- Terminal block designed inside the side mount bracket enables easy wiring
- Built-in buzzer available (Volume : Max 90dB at 1m)
- Revolving speed : 120-140RPM
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -20°C to +50°C
- Protection rating : IP44

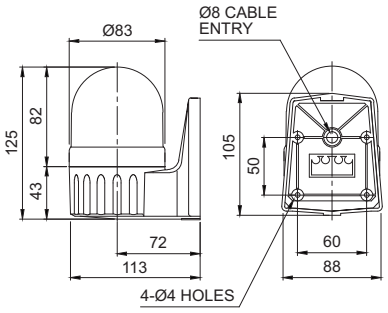
Specifications

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S80AR S80AU	DC12V	0.484A	12V5W	T16x35 15S	5	-	0.31kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.310A	24V5W	T16x35 15S	6		0.31kg	
	AC110V	0.080A	12V5W	T16x35 15S	5		0.50kg	
	AC220V	0.040A	12V5W	T16x35 15S	5		0.50kg	

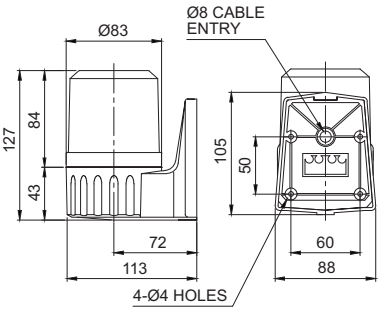
Technical Diagram

(Units : mm)

S80AR



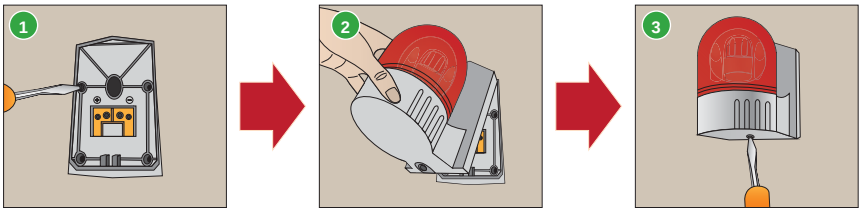
S80AU



Wiring Instructions

- Attach the power supply wire to the terminal block
- DC Type : Black output line is negative(-)

Mounting Instructions



1. Secure the base plate to the mounting surface, and the power line to the terminal block
2. Mount the warning light by inserting the ring(hook) into the upper part of the base plate
3. Screw in the bolt at the base of the mounting bracket to complete assembly

Ordering Specification

S80AR	-	BZ	-	220	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S80AR • S80AU		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

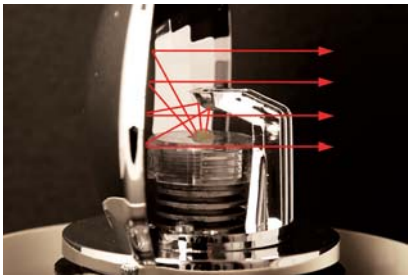
S80 series

Ø80mm LED Revolving Warning Lights

IP44 | -20~+50°C | BUZZER | 90dB | RoHS

S80DR

S80LR



Feature of LED revolving warning lights

LED revolving warning lights has Qlight's distinctive LED light collecting system and special multifaceted reflector allowing excellent omni-directional visibility.
(Patent registered)

Replacement for old version

S80DR substitutes for S80RLR, so they have same dimension, function and feature.

S80DR/ S80LR LED Revolving Warning Lights

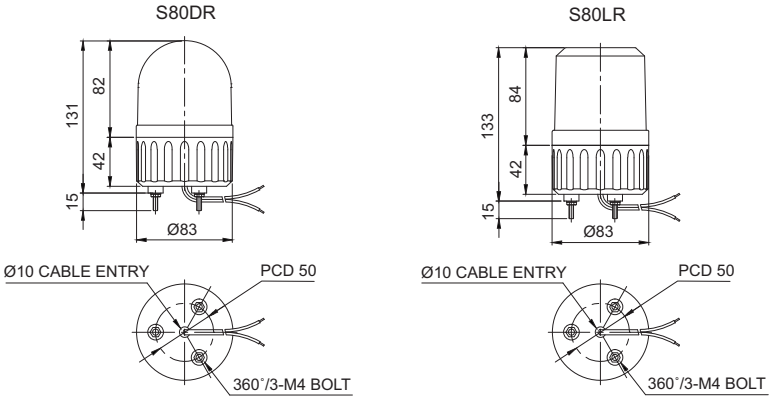
- Ø80mm compact LED revolving warning lights
- Excellent omni-directional visibility with LED light collecting system and special multifaceted reflector
- Built-in buzzer available (Volume : Max 90dB at 1m)
- Revolving speed : 120-140RPM
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -20°C to +50°C
- Protection rating : IP44
- Compliant with RoHS directive

Specifications

Model number	Voltage	Current	Certificates	Weight	Color
S80DR S80LR	DC12V	0.183A	-	0.23kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.127A		0.23kg	
	AC110V	0.035A		0.38kg	
	AC220V	0.017A		0.38kg	

Technical Diagram

(Units : mm)



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- DC Type : Black output line is negative(-)

Customization

- Wall mount bracket options :
  Bracket structure allows for threading through the bracket hole or into the wall mount

Wall Mount Bracket **TWS80**

Wall Mount Bracket **TWA80**

Ordering Specification

S80DR	-	BZ	-	220	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S80DR • S80LR		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

IP44 | -20~+50℃ | RoHS

S80DRK

S80LRK

S80DRK/ S80LRK LED Revolving Warning Lights

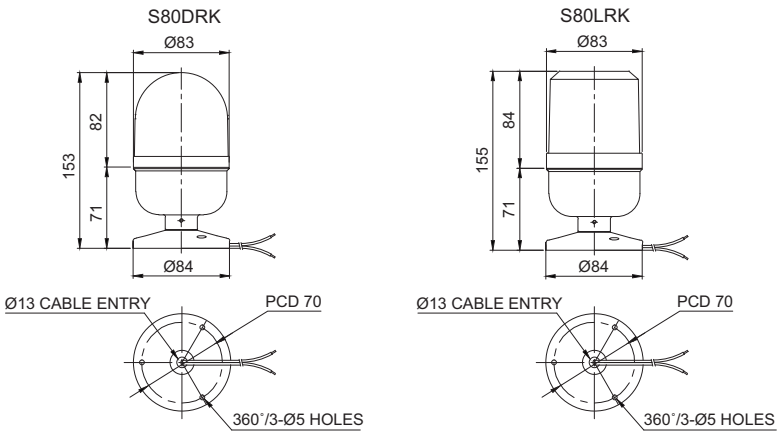
- Ø80mm LED revolving warning lights
- Adopts a special power transmission system that reduces noise and wear
- Circular mount bracket allows convenient installation
- No buzzer allowed
- Revolving speed : 120-140RPM
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -20°C to +50°C
- Protection rating : IP44
- Compliant with RoHS directive

Specifications

Model number	Voltage	Current	Certificates	Weight	Color
S80DRK S80LRK	DC12V	0.183A	-	0.24kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.127A		0.24kg	
	AC110V	0.035A		0.43kg	
	AC220V	0.017A		0.43kg	

Technical Diagram

(Units : mm)



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- DC Type : Black output line is negative(-)

Customization

- Pole mount type

Standard	QZ18	SZ18	SL18	QLA18
Steel	PC	Al	Al	PC

※ Please refer to page144-147 for detailed dimension of mount bracket

Replacement for old version

S80DRK substitutes for S80RLRK, so they have same dimension, function and feature.

Ordering Specification

S80DRK	-	24	-	R
[Model number]		[Voltage]		[Color]
• S80DRK • S80LRK		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

S80 series

Ø80mm LED Revolving Warning Light

IP44 | -20~+50°C | BUZZER | 90dB | RoHS

S80ADR

S80ALR

S80A series can be wall mounted easily without an additional mounting bracket.

Replacement for old version

S80ADR substitutes for S80ALR and S80ALR substitutes for S80AULR so they have the same dimension, function and feature.

S80ADR/ S80ALR LED Revolving Warning Lights

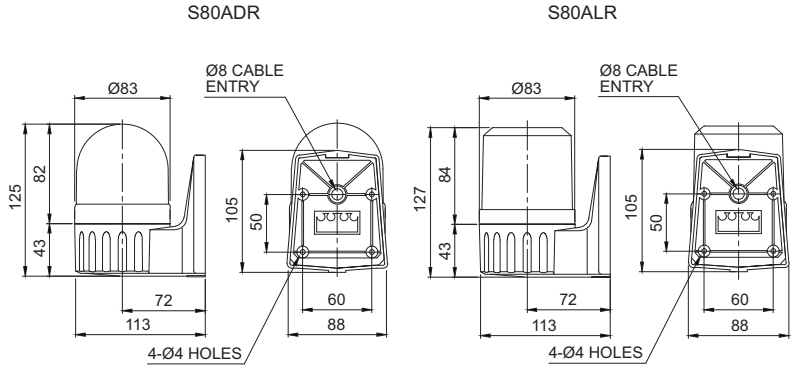
- Equipped wall mount allows for easy assembly. Additional mounting brackets not required
- Terminal block designed inside the side mount bracket enables easy wiring
- Built-in buzzer available (Volume : Max 90dB at 1m)
- Revolving speed : 120-140RPM
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -20°C to +50°C
- Protection rating : IP44
- Compliant with RoHS directive

Specifications

Model number	Voltage	Current	Certificates	Weight	Color
S80ADR S80ALR	DC12V	0.183A	-	0.34kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.127A		0.34kg	
	AC110V	0.035A		0.49kg	
	AC220V	0.017A		0.49kg	

Technical Diagram

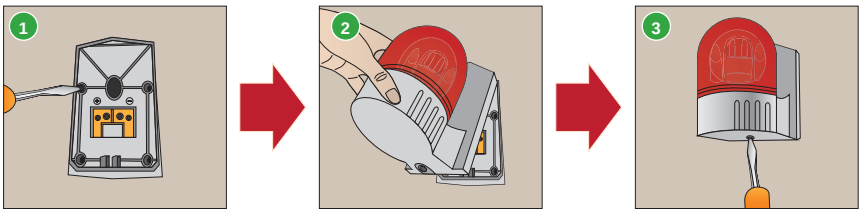
(Units : mm)



Wiring Instructions

- Attach the power supply wire to the terminal block
- DC Type : Black output line is negative(-)

Mounting Instructions



1. Secure the base plate to the mounting surface, and the power line to the terminal block
2. Mount the warning light by inserting the ring(hook) into the upper part of the base plate
3. Screw in the bolt at the base of the mounting bracket to complete assembly

Ordering Specification

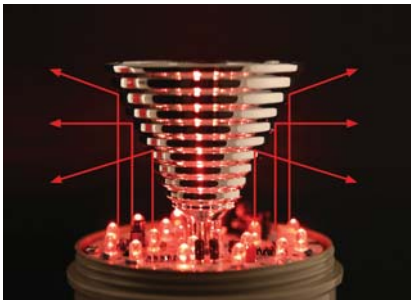
S80ALR	-	BZ	-	110	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S80ADR • S80ALR		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

S80 series

Ø80mm LED Steady/ Flashing Signal Lights

IP44 | -30~+50°C | BUZZER | 90dB | RoHS

S80L



Feature of indirect light diffusing system

Indirect light diffusing system emits intense and constant level of signal lights via multi reflector throughout the lens.

S80L LED Steady/ Flashing Signal Light

- Ø80mm LED steady/ flashing signal lights
- Multi reflector system emits intense and constant level of signal lights
- Built-in switch for selection between steady and flashing mode
- Built-in buzzer available (Volume : Max 90dB at 1m)
- Flashing rate : 60-80 flashes/min
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP44
- Certificates : CE Compliant
- Compliant with RoHS directive

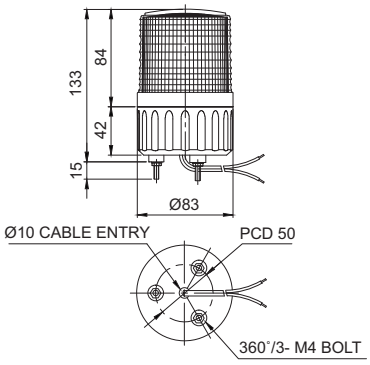
Specifications

Model number	Voltage	Current	Certificates	Weight	Color
S80L	DC12V	0.123A	CE DC24V only	0.20kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.094A		0.20kg	
	AC110V	0.035A		0.32kg	
	AC220V	0.017A		0.32kg	

Technical Diagram

(Units : mm)

S80L



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

Customization

- Wall mount bracket options :
  Bracket structure allows for threading through the bracket hole or into the wall mount

Wall Mount Bracket **TWS80**

Wall Mount Bracket **TWA80**

Ordering Specification

S80L	-	BZ	-	24	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S80L		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

S80 series

Ø80mm LED Steady/ Flashing Signal Lights

IP44 | -30~+50℃ | RoHS

S80LK

S80LK LED Steady/ Flashing Signal Light

- Ø80mm LED steady/ flashing signal lights
- Circular mount bracket allows for convenient installation
- Buzzer not allowed
- Switch for selection between steady and flashing mode
- Flashing rate : 60-80 flashes/min
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP44
- Compliant with RoHS directive

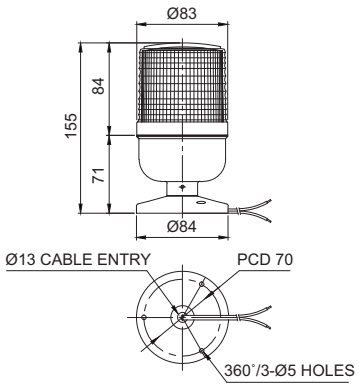
Specifications

Model number	Voltage	Current	Certificates	Weight	Color
S80LK	DC12V	0.123A	-	0.20kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.094A		0.20kg	
	AC110V	0.035A		0.37kg	
	AC220V	0.017A		0.37kg	

Technical Diagram

(Units : mm)

S80LK



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

Customization

- Pole mount type

Standard	QZ18	SZ18	SL18	QLA18
Steel	PC	Al	Al	PC

※ Please refer to page144-147 for detailed dimension of mount bracket

Ordering Specification

S80LK	-	24	-	R
[Model number]		[Voltage]		[Color]
• S80LK		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

S80 series

Ø80mm LED Steady/ Flashing Signal Lights

IP44 | -30~+50°C | BUZZER | 90dB | RoHS

S80AL

S80AL LED Steady/ Flashing Signal Light

- Equipped wall mount allows for easy assembly. Additional mounting brackets not required
- Maintenance reduced with longlasting LED light source
- Buzzer not allowed
- Terminal block designed inside the side mount bracket enables easy wiring
- Built-in buzzer available(Volume : Max 90dB at 1m)
- Built-in switch for selection between steady and flashing mode
- Flashing rate : 60-80 flashes/min
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP44
- Compliant with RoHS directive

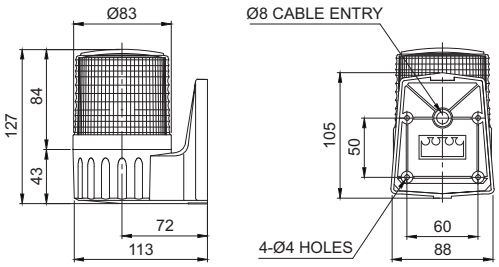
Specifications

Model number	Voltage	Current	Certificates	Weight	Color
S80AL	DC12V	0.123A	-	0.26kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.094A		0.26kg	
	AC110V	0.035A		0.35kg	
	AC220V	0.017A		0.35kg	

Technical Diagram

(Units : mm)

S80AL



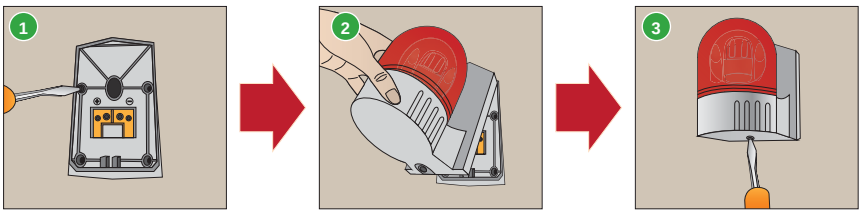
Wiring Instructions

- Attach the power supply wire to the terminal block
- Product can be wired regardless of polarity

S80A series enable easy wiring

S80A series enables easy wiring with its terminal block attached to the fixed base plate. With this system the contacts in the housing sends power directly to the terminal block.

Mounting Instructions



1. Secure the base plate to the mounting surface, and the power line to the terminal block
2. Mount the warning light by inserting the ring(hook) into the upper part of the base plate
3. Screw in the bolt at the base of the mounting bracket to complete assembly

Ordering Specification

S80AL	-	BZ	-	110	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S80AL		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

IP66 -40~+50℃

Q70NSC

Q70NSC Xenon Lamp Strobe Signal Lights

- Ø70mm xenon lamp strobe signal lights
- High efficiency strobe light that offers excellent outdoor visibility and long-distance signal light luminance close to natural light
- Lamp connector fastening structure allows for convenient lamp replacement
- Flashing rate : 60-80 flashes/min
- Materials : Lens-PC, Housing-ABS
- Ambient operating temperature : -40°C to +50°C
- Protection rating : IP66

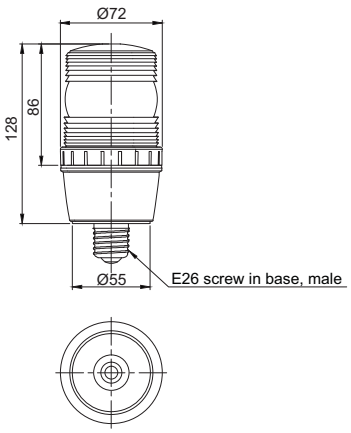
Specifications

Model number	Voltage	Current	Certificates	Weight	Color
Q70NSC	AC110V	Max. 0.050A	-	0.19kg	● R-Red ● A-Amber ● G-Green ● B-Blue

Technical Diagram

(Units : mm)

Q70NSC



Wiring Instructions

- Edison screw bulb (E26) socket allows for easy and convenient wiring.

Ordering Specification

Q70NSC	-	110	-	A
[Model number]		[Voltage]		[Color]
• Q70NSC		• 110-AC110V		● R-Red ● A-Amber ● G-Green ● B-Blue

Q70NSN

Ø80mm LED Xenon Lamp Strobe Signal Lights

IP66 -40~+50°C

Q70NSN

Q70NSN Xenon Lamp Strobe Signal Lights

- Ø70mm xenon lamp strobe signal lights
- High efficiency strobe light that offers excellent outdoor visibility and long-distance signal light luminance close to natural light
- Lamp connector fastening structure allows for convenient lamp replacement
- Bottom nut base allows for convenient mounting
- Flashing rate : 60-80 flashes/min
- Materials : Lens-PC, Housing-ABS
- Ambient operating temperature : -40°C to +50°C
- Protection rating : IP66

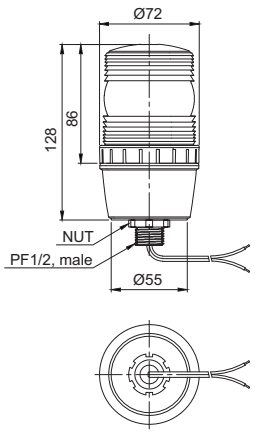
Specifications

Model number	Voltage	Current	Certificates	Weight	Color
Q70NSN	DC12V-80V	Max. 0.262A	-	0.188kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	AC110V	Max. 0.050A		0.191kg	

Technical Diagram

(Units : mm)

Q70NSN



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

Ordering Specification

Q70NSN	-	12/80	-	R
[Model number]		[Voltage]		[Color]
• Q70NSN		• 12/80-DC12V-80V • 110-AC110V		● R-Red ● A-Amber ● G-Green ● B-Blue

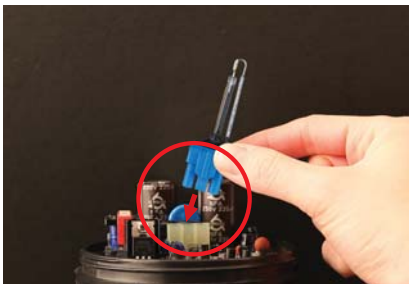
S80 series

Ø80mm Xenon Lamp Strobe Signal Lights

IP54 | -30~+50°C | N S MAGNET

S80S

S80SM



Xenon lamp replacement instructions

Convenient lamp replacement with connector lamp type. Lamp replacement is safe after the product is powered off for 30 mins.

Customization

- AC Type (S80SM)
- Wall mount bracket options (S80S) : Bracket structure allows for threading through the bracket hole or into the wall mount

Wall Mount Bracket **TWS80**

Wall Mount Bracket **TWA80**

Common Specifications(S80S/ S80SM)

- Ø80mm xenon lamp strobe signal lights
- High efficiency strobe light that offers excellent outdoor visibility and long-distance signal light luminance close to natural light
- Lamp connector fastening structure allows for convenient lamp replacement
- Flashing rate : 60-80 flashes/min
- Materials : Lens-AS, Housing-ABS,
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP54

S80S Xenon Lamp Strobe Light

- Certificates : CE Compliant

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S80S	DC12V	0.433A	220V -350V	BGA2120 -BBC I type	47	CE	0.21kg	R-Red
	DC24V	0.216A					0.21kg	A-Amber
	AC110V	0.076A				-	0.21kg	G-Green
	AC220V	0.061A					0.21kg	B-Blue

Wiring Instructions

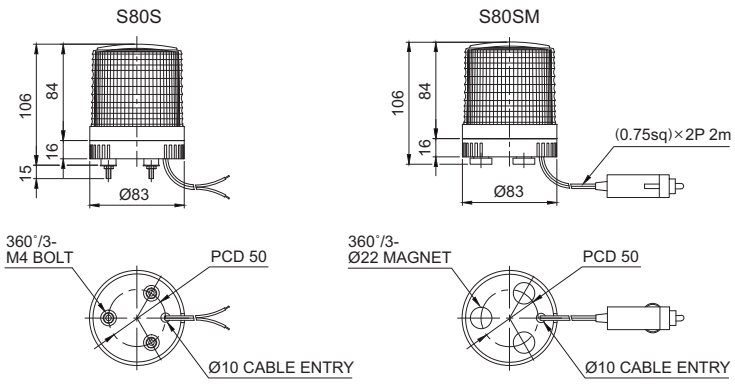
- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

S80SM Xenon Lamp Strobe Light Equipped with Magnet

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S80SM	DC12V	0.433A	220V -350V	BGA2120 -BBC I type	47	-	0.24kg	R-Red A-Amber
	DC24V	0.216A					0.24kg	G-Green B-Blue

Technical Diagram

(Units : mm)



Wiring Instructions

- Cigarette lighter plug : IEC42(0.75sg)×2P 2m

Ordering Specification

S80S	-	24	-	R
[Model number]		[Voltage]		[Color]
• S80S • S80SM		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

IP44 | -30~+50°C | BUZZER | 90dB

S80AS

S80AS Xenon Lamp Strobe Signal Light

- Ø80mm xenon lamp strobe signal lights
- High efficiency strobe light that offers excellent outdoor visibility and long-distance signal light luminance close to natural light
- Lamp connector fastening structure allows for convenient lamp replacement
- Built-in buzzer available (Volume : Max 90dB at 1m)
- Flashing rate : 60-80 flashes/min
- Materials : Lens-AS, Housing-ABS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP44

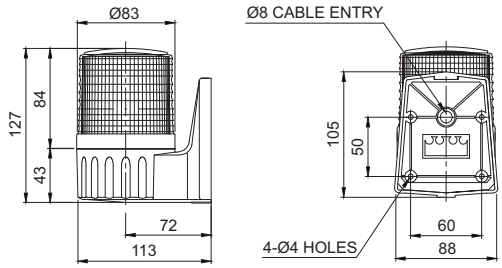
Specifications

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S80AS	DC12V	0.433A	220V -350V	BGA2120 -BBC I type	47	-	0.27kg	● R-Red
	DC24V	0.216A					0.27kg	● A-Amber
	AC110V	0.076A					0.24kg	● G-Green
	AC220V	0.061A					0.24kg	● B-Blue

Technical Diagram

(Units : mm)

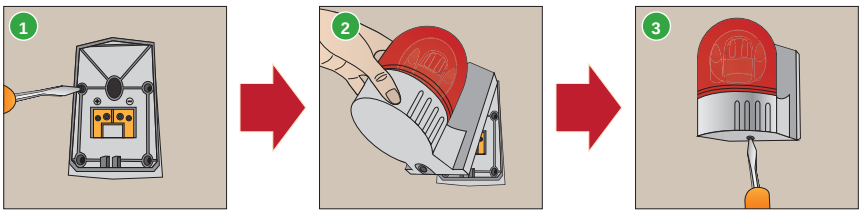
S80AS



Wiring Instructions

- Attach the power supply wire to the terminal block
- Product can be wired regardless of polarity

Mounting Instructions



1. Secure the base plate to the mounting surface, and the power line to the terminal block
2. Mount the warning light by inserting the ring(hook) into the upper part of the base plate
3. Screw in the bolt at the base of the mounting bracket to complete assembly

S80A series enable easy wiring

S80A series enables easy wiring with its terminal block attached to the fixed base plate. With this system the contacts in the housing sends power directly to the terminal block.

Ordering Specification

S80AS	-	BZ	-	24	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S80AS		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

S80 series

Ø80mm LED Strobe Signal Lights

IP66 -30~+50°C

Superior light output similar to xenon lamp through novel diffusion lens

S80NS

S80NS LED Strobe Signal Light

- Ø80mm LED strobe signal lights
- LED lights can be strongly emitted by convex lens
- Adopts excellent light distribution structure
- LED lamp provides high durability in conveyor machines, cars, press machines which have vibration and impact
- Excellent durability and air tightness by sealed PCB
- Adopts strobe type for good visibility
- Flashing rate : 50-60 flashes/min
- Materials : lens-PC, Housing-ABS+GF
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP66

Specifications

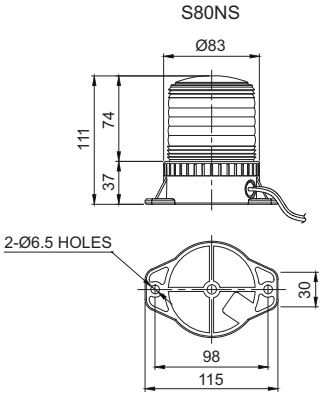
Model number	Voltage	Current	Certificates	Weight	Color
S80NS	DC12V-24V	Max 0.500A	-	0.50kg	● R-Red ● A-Amber ● G-Green ● B-Blue

※ DC type allows free voltage with range of 10V-30V.

Technical Diagram

(Units : mm)

S80NS



S80NS is sealed by epoxy inside of product. Good performance in poor environments such as high vibration, impact, heavy dust and poor weather.

Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

Ordering Specification

S80NS	-	12/24	-	A
[Model number]		[Voltage]		[Color]
• S80NS		• 12/24-DC12V-24V		● R-Red ● A-Amber ● G-Green ● B-Blue

S80 series

Ø80mm LED Strobe Signal Light for Forklift

IP65 -30~+50℃

Enhanced visibility by adopting a diffusion lens

S80LS

S80LS LED Strobe Signal Light for Forklifts

- Ø80mm LED strobe signal light
- Extremely bright signal light that reduces attenuation of the signal light
- Excellent visibility in daytime as bulb or xenon lamp
- Vibration and water resistance product
- Flashing rate : 60-80 flashes/min
- Materials : Lens-PC, Housing-ABS
- Ambient operating temperature : -30°C to +50°C
- Protect rating : IP65
- Certificates : CE Compliant, UL Listed

Specifications

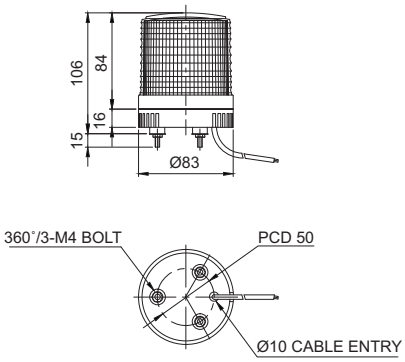
Model number	Voltage	Current	Certificates	Weight	Color
S80LS	DC12V-24V	Max 0.160A	CE UL	0.25kg	● R-Red ● A-Amber ● G-Green ● B-Blue

※ DC type allows free voltage with range of 10V-30V.

Technical Diagram

(Units : mm)

S80LS



S80LS has an extremely bright signal light that reduces signal attenuation under direct sunlight. Therefore, signal light output of this lamp has excellent visibility similar to a bulb or xenon lamp in daytime.

Wiring Instructions

- External power line standard : UL2095 AWG20(0.5sq×2C) 400mm
- Product can be wired regardless of polarity

Ordering Specification

S80LS	-	12/24	-	R
[Model number]		[Voltage]		[Color]
• S80LS		• 12/24-DC12V-24V		● R-Red ● A-Amber ● G-Green ● B-Blue

S125LSE

Ø125mm LED Strobe Signal Lights

IP54 -30~+50℃

S125LSE

S125LSE LED Strobe Signal Light

- Ø125mm LED strobe signal lights
- Extremely bright signal light that reduces attenuation of the signal light
- Excellent visibility in daytime as bulb or xenon lamp
- Vibration and water resistance product
- Flashing rate : 60-80 flashes/min
- Materials : lens-PC, Housing-ABS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP54

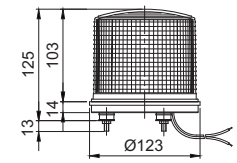
Specifications

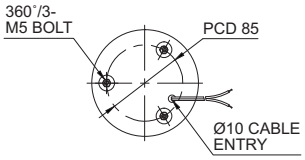
Model number	Voltage	Current	Certificates	Weight	Color
S125LSE	DC12V	0.910A	-	0.33kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.360A		0.33kg	

Technical Diagram

(Units : mm)

S125LSE





Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

Customization

- Wall mount bracket :
  Power line threading the bracket hole or into the wall mount

Wall Mount Bracket
SWP125

Wall Mount Bracket
SWM125

Ordering Specification

S125LSE	-	24	-	R
[Model number]		[Voltage]		[Color]
• S125LSE		• 12-DC12V • 24-DC24V		● R-Red ● A-Amber ● G-Green ● B-Blue

S100 series

Ø100mm Bulb Revolving Signal Light

IP44 | -20~+50°C | BUZZER | 90dB

S100R

Common Specifications(S100R/ S100U/ S100UA/ S100M)

- Ø100mm general-purpose bulb revolving signal lights
- Adopts a special power transmission system that reduces noise and wear
- Built-in buzzer available (Volume : max 90dB at 1M)
- Revolving speed : 120-140RPM
- Material : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -20°C to +50°C

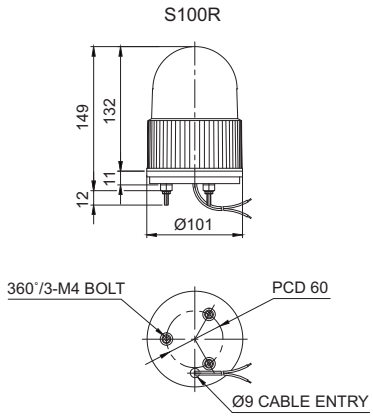
S100R Bulb Revolving Signal Light

- Protection rating : IP 44
- Certificates : CE Compliant

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S100R	DC12V	0.966A	12V10W	T16x35 15S	9	CE	0.34kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.566A	24V10W	T16x35 15S	10		0.34kg	
	AC110V	0.130A	12V10W	T16x35 15S	9	-	0.60kg	
	AC220V	0.065A	12V10W	T16x35 15S	9		0.60kg	

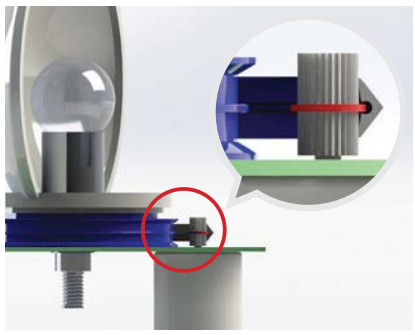
Technical Diagram

(Units : mm)



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity



V belt type power transfer system feature

Designed to minimize the abrasion of the belt, and to efficiently deliver torque from the drive shaft to the reflector. (Patent registered)

Customization

• Efficient type with AC bulb(Model number : S100E)	• FT bracket equipped (Model number : S100E-FT)	• Wall mount bracket : Power line threading the bracket hole or into the wall mount	
S100E	**S100E-FT**	Wall Mount Bracket **SWP125**	Wall Mount Bracket **SWM125**

Ordering Specification

S100R	-	BZ	-	24	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S100R		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

S100 series

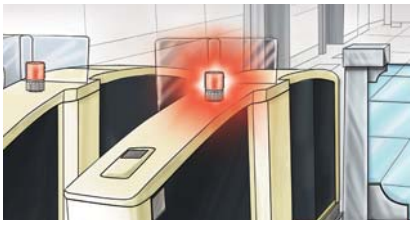
Ø100mm Bulb Revolving Signal Lights

IP44 | -20~+50°C | BUZZER | 90dB

S100U

S100UA

Enhanced diffusion through a special 12 sided diffusive lens



S100U set on 1st floor security gate of public office for disabled persons.

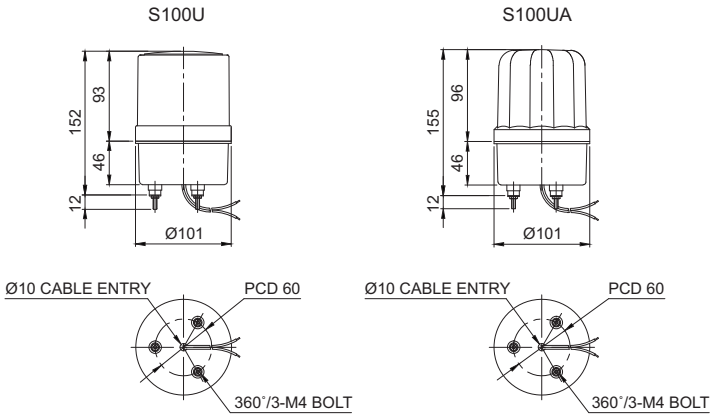
S100U/ S100UA Bulb Revolving Signal Lights

• Protection rating : IP44

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S100U S100UA	DC12V	0.966A	12V10W	T16x35 15S	9	-	0.36kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.566A	24V10W	T16x35 15S	10		0.36kg	
	AC110V	0.130A	12V10W	T16x35 15S	9		0.59kg	
	AC220V	0.065A	12V10W	T16x35 15S	9		0.59kg	

Technical Diagram

(Units : mm)



Wiring Instructions

• External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
• DC type : Black output line is negative(-)

Customization

• 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available

• Product used dome type lens (Model number : S100UR)

S100UR

• Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount

Wall Mount Bracket
SWP125

Wall Mount Bracket
SWM125

Ordering Specification

S100U	-	BZ	-	220	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S100U • S100UA		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

S100 series

Ø100mm Bulb Revolving Signal Lights

S100M

S100M Bulb Revolving Signal Light for Vehicle

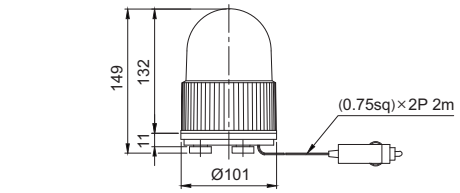
- Three powerful magnets provide strong adhesion to the vehicle
- Power supply through cigarette lighter plug
- Protection rating : IP54

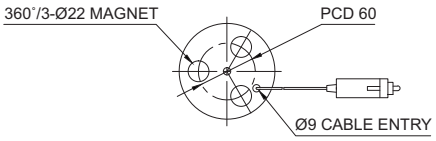
Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S100M	DC12V	0.966A	12V10W	T16x35 15S	9	-	0.37kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.566A	24V10W	T16x35 15S	10		0.37kg	

Technical Diagram

(Units : mm)

S100M





Wiring Instructions

- Cigarette lighter plug, IEC42(0.75sq)×2P 2m

Customization

- AC Type

Ordering Specification

S100M	-	BZ	-	24	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S100M		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V		● R-Red ● A-Amber ● G-Green ● B-Blue

S100 series

Ø100mm LED Revolving Warning Lights

S100LR

Common Specifications(S100LR/ S100MLR)

- Ø100mm general purpose LED revolving warning lights
- Shock and vibration-resistant and easy maintenance with long-lasting LED light source
- Excellent omni-directional visibility with LED light collecting system and special multifaceted reflector
- Circular mount bracket allows convenient installation
- Built-in buzzer available (Volume : Max 90dB at 1m)
- Revolving speed : 120-140RPM
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -20°C to +50°C

S100LR LED Revolving Warning Light

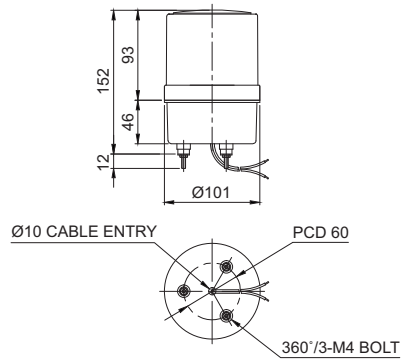
- Protection rating : IP44
- Compliant with RoHS directive

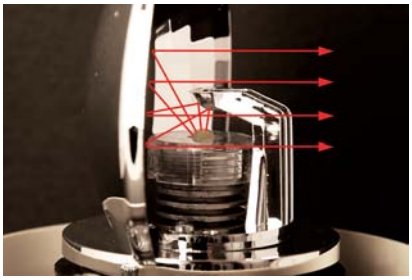
Model number	Voltage	Current	Certificates	Weight	Color
S100LR	DC12V	0.183A	-	0.39kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.127A		0.39kg	
	AC110V	0.035A		0.47kg	
	AC220V	0.017A		0.47kg	

Technical Diagram

(Units : mm)

S100LR





Feature of LED revolving warning light

LED revolving warning light has Qlight's distinctive LED light collecting system and special multifaceted reflector allowing excellent omni-directional visibility.
(Patent registered)

Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- DC Type : Black output line is negative(-)

Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- Model number : S100RLR/ S100DR
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount

S100RLR

S100DR

Wall Mount Bracket
SWP125

Wall Mount Bracket
SWM125

Ordering Specification

S100LR	-	BZ	-	220	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S100LR		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

S100 series

Ø100mm LED Revolving Warning Lights for Vehicle

IP54 | -20~+50℃ | N S MAGNET | BUZZER | 90dB

S100MLR

S100MLR LED Revolving Warning Light for Vehicle

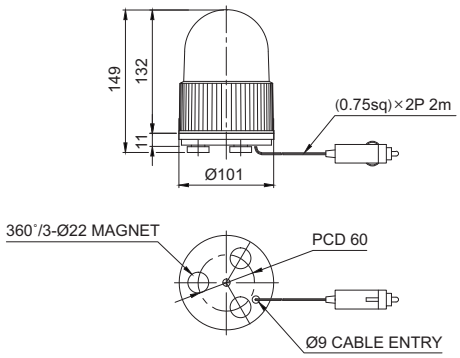
- Three powerful magnets provide strong adhesion to the vehicle
- Power is supplied through the cigarette lighter plug
- Shock and vibration-resistant from vehicle operation with long-lasting LED
- Excellent omni-directional visibility with LED light collecting system and special multifaceted reflector
- Protection rating : IP54

Model number	Voltage	Current	Certificates	Weight	Color
S100MLR	DC12V	0.183A	-	0.37kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.127A		0.37kg	

Technical Diagram

(Units : mm)

S100MLR



Wiring Instructions

- Cigarette lighter plug, IEC42(0.75sq)×2P 2m

Customization

- AC Type

Ordering Specification

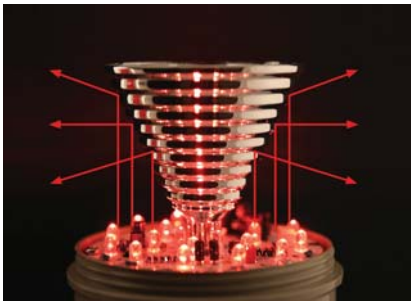
S100MLR	-	BZ	-	24	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S100MLR		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V		● R-Red ● A-Amber ● G-Green ● B-Blue

S100 series

Ø100mm LED Steady/ Flashing Signal Lights

IP44 | -30~+50°C | BUZZER | 90dB | RoHS

S100L



Feature of indirect light diffusing system

Qlight's Indirect light diffusing system emits an intense and constant level of signal light via a multi-tiered reflector throughout the lens.

S100L LED Steady/ Flashing Signal Light

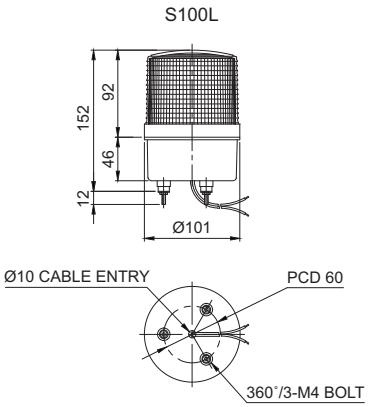
- Ø100mm multi-purpose LED steady/ flashing signal light
- Shock and vibration-resistant and easy maintenance with long-lasting LED
- Built-in switch for selection between steady and flashing mode
- Material : Lens - AS, Housing - ABS, Reflector - Heat resistant ABS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP44
- Certificates : KIMM, CE Compliant
- Compliant with RoHS directive

Specifications

Model number	Voltage	Current	Certificates	Weight	Color
S100L	DC12V	0.182A	KIMM, CE, DC only	0.26kg	R-Red, A-Amber, G-Green, B-Blue
	DC24V	0.163A		0.26kg	
	AC110V	0.044A		0.45kg	
	AC220V	0.022A		0.45kg	

Technical Diagram

(Units : mm)



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

Customization

- 2 buzzer sound types : Both prolonged (beep, beep) and staccato(beep, beep, beep) buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount

Wall Mount Bracket **SWP125**

Wall Mount Bracket **SWM125**

Ordering Specification

S100L	-	BZ	-	220	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S100L		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

S100 series

Ø100mm Xenon Lamp Strobe Signal Lights

S100S

S100SM

Xenon lamp replacement instructions

Convenient lamp replacement with connector lamp type. Lamp replacement is safe after the product is powered off for 30 mins.

Customization

- AC type (S100SM)
- Wall mount bracket options (S100S) : Bracket structure allows for threading through the bracket hole or into the wall mount

Wall Mount Bracket **SWP125**

Wall Mount Bracket **SWM125**

Common Specifications(S100S/ S100SM)

- Ø100mm xenon lamp strobe signal lights
- High efficiency strobe light that offers excellent outdoor visibility and long-distance signal light luminance close to natural light
- Lamp connector structure for convenient lamp replacement
- Flashing rate : 60-80 flashes/min
- Material : Lens -AS, Housing-ABS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP54

S100S Xenon Lamp Strobe Signal Light

- Certificates : KIMM, CE Compliant

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S100S	DC12V	1.001A	200V -550V	EUB0641 -1A(G) U type	48	KIMM CE DC24V only	0.25kg	R-Red
	DC24V	0.616A					0.25kg	A-Amber
	AC110V	0.133A					0.25kg	G-Green
	AC220V	0.106A					0.25kg	B-Blue

Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

S100SM Magnet Mount Xenon Lamp Strobe Signal Light

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S100SM	DC12V	1.001A	200V -550V	EUB0641 -1A(G) U type	48	-	0.34kg	R-Red
	DC24V	0.616A					0.34kg	A-Amber
								G-Green
								B-Blue

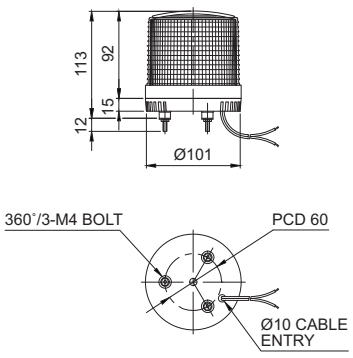
Wiring Instructions

- Cigarette lighter plug, IEC42(0.75sq)×2P 2m

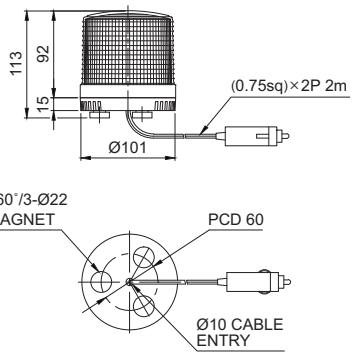
Technical Diagram

(Units : mm)

S100S



S100SM



Ordering Specification

S100S	-	220	-	R
[Model number]		[Voltage]		[Color]
• S100S • S100SM		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

S125 series

Ø125mm Bulb Revolving Warning Lights

IP44 | -20~+50°C | BUZZER | 90dB

S125R

Common Specifications(S125R/ S125U/ S125M)

- Ø125mm standard-sized bulb revolving warning lights
- Adopts a special power transmission system that reduces noise and wear
- Built-in buzzer available (Volume : Max 90dB at 1m)
- Revolving speed : 120-140RPM
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -20°C to +50°C

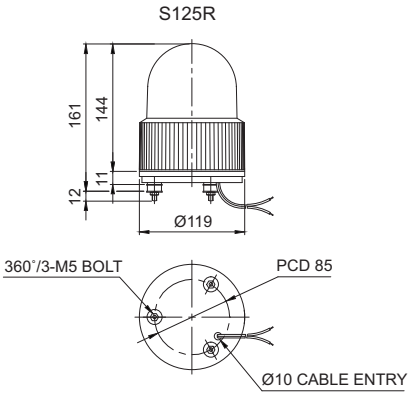
S125R Bulb Revolving Warning Light

- Protection rating : IP44
- Certificates : CE Compliant

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S125R	DC12V	0.966A	12V10W	T16x35 15S	9	CE	0.40kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.566A	24V10W	T16x35 15S	10		0.40kg	
	AC110V	0.130A	12V10W	T16x35 15S	9	-	0.65kg	
	AC220V	0.065A	12V10W	T16x35 15S	9		0.65kg	

Technical Diagram

(Units : mm)



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- DC type : Black output line is negative(-)

Customization

• Cost efficient model with AC type bulb (Model number : S125E)	• Item used FT bracket (Model number : S125E-FT)	• Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount	
S125E	**S125E-FT**	Wall Mount Bracket **SWP125**	Wall Mount Bracket **SWM125**

Ordering Specification

S125R	-	BZ	-	220	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S125R		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

S125 series

Ø125mm Bulb Revolving Warning Lights

IP44 | -20~+50°C | BUZZER | 90dB

S125U

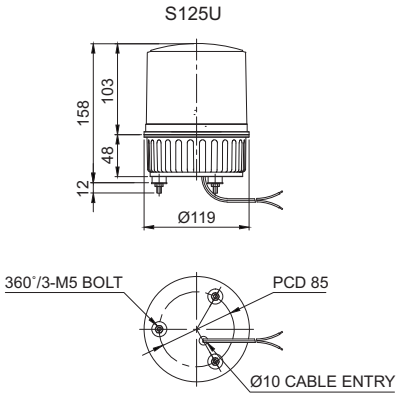
S125U Bulb Revolving Warning Light

• Protection rating : IP44

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S125U	DC12V	0.966A	12V10W	T16x35 15S	9	-	0.41kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.566A	24V10W	T16x35 15S	10		0.41kg	
	AC110V	0.130A	12V10W	T16x35 15S	9		0.65kg	
	AC220V	0.065A	12V10W	T16x35 15S	9		0.65kg	

Technical Diagram

(Units : mm)



Wiring Instructions

• External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
• DC Type : Black output line is negative(-)

CNC machine equipped with S125U

Customization

• 2 buzzer sound types : Both prolonged (beep, beep) and staccato(beep, beep, beep) buzzer output available

• Wall mount bracket options :
Bracket structure allows for threading through the bracket hole or into the wall mount

Wall Mount Bracket **SWP125**

Wall Mount Bracket **SWM125**

Ordering Specification

S125U	-	BZ	-	220	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S125U		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

S125 series

Ø125mm Bulb Revolving Warning Lights

S125M

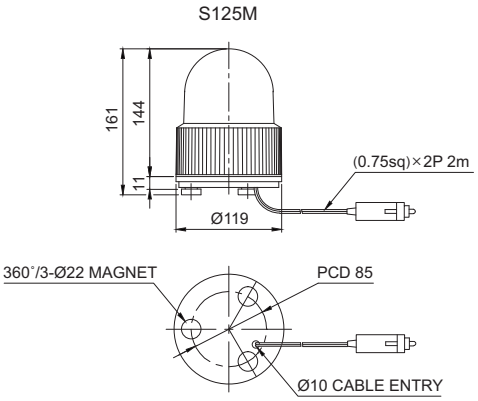
S125M Bulb Revolving Warning Light for Vehicle

- Three powerful magnets provide strong adhesion to the vehicle
- Power supply through cigarette lighter plug
- Protection rating : IP54

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S125M	DC12V	0.966A	12V10W	T16x35 15S	9	-	0.45kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.566A	24V10W	T16x35 15S	10		0.45kg	

Technical Diagram

(Units : mm)



Wiring Instructions

- Cigarette lighter plug, IEC42(0.75sq)×2P 2m

Customization

- AC type

Ordering Specification

S125M	-	BZ	-	24	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S125M		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V		● R-Red ● A-Amber ● G-Green ● B-Blue

S125 series

Ø125mm LED Revolving Warning Lights

IP44 | -20~+50°C | BUZZER | 90dB | RoHS

S125LR

Common Specifications(S125LR/ S125MLR)

- Ø125mm standard LED revolving warning lights
- Excellent omni-directional visibility with LED light collecting system and special multifaceted reflector
- Built-in buzzer available(Volume : Max 90dB at 1m)
- Revolving speed : 120-140RPM
- Materials : Lens - AS, Housing - ABS, Reflector - Heat resistant ABS
- Ambient operating temperature : -20°C to +50°C

S125LR LED Revolving Warning Light

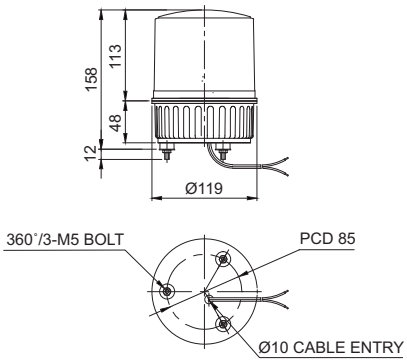
- Protection rating : IP44
- Compliant with RoHS directive

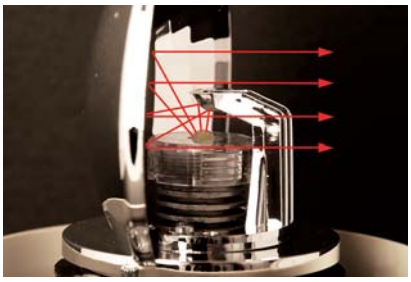
Model number	Voltage	Current	Certificates	Weight	Color
S125LR	DC12V	0.422A	-	0.43kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.266A		0.43kg	
	AC110V	0.082A		0.66kg	
	AC220V	0.041A		0.66kg	

Technical Diagram

(Units : mm)

S125LR





Feature of LED revolving warning light

LED revolving warning light has Qlight's distinctive LED light collecting system and special multifaceted reflector allowing excellent omni-directional visibility.
(Patent registered)

Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- DC Type: Black output line is negative(-)

Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available

• Same design with S125R (Model number : S125RLR)	• Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount	
S125RLR	Wall Mount Bracket **SWP125**	Wall Mount Bracket **SWM125**

Ordering Specification

S125LR	-	BZ	-	220	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S125LR		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

S125 series

Ø125mm LED Revolving Warning Lights

S125MLR

S125MLR LED Revolving Warning Lights for Vehivle

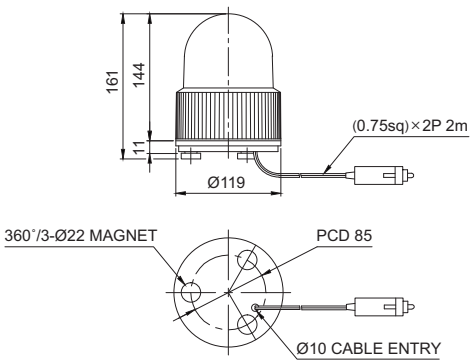
- Three powerful magnets provide strong adhesion to the vehicle
- Power supply through cigarette lighter plug
- Shock and vibration-resistant from the vehicle with long-lasting LED light bulbs
- Excellent omni-directional visibility with LED light collecting system and special multi-faced reflector
- Protection rating : IP54

Model number	Voltage	Current	Certificates	Weight	Color
S125MLR	DC12V	0.422A	-	0.46kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.266A		0.46kg	

Technical Diagram

(Units : mm)

S125MLR



Wiring Instructions

- Cigarette lighter plug, IEC42(0.75sq)×2P 2m

Customization

- AC type

Ordering Specification

S125MLR	-	BZ	-	24	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S125MLR		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

S125 series

Ø125mm LED Steady/ Flashing Signal Lights

IP44 | -30~+50°C | BUZZER | 90dB | RoHS

S125L

S125L LED Steady/ Flashing Signal Light

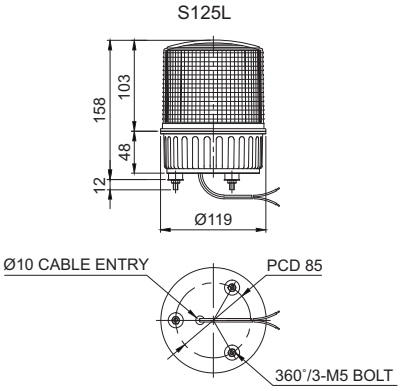
- Ø125mm LED steady/ flashing signal light
- Shock and vibration-resistant and easy maintenance with long-lasting LED light source
- Built-in switch for selection between steady and flashing mode
- Built-in buzzer type available(Volume : Max 90dB at 1m)
- Flashing rate : 60-80 flashes/min
- Material : Lens - AS, Housing - ABS, Reflector - Heat resistant ABS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP44
- Certificates : KIMM, CE Compliant
- Compliant with RoHS directive

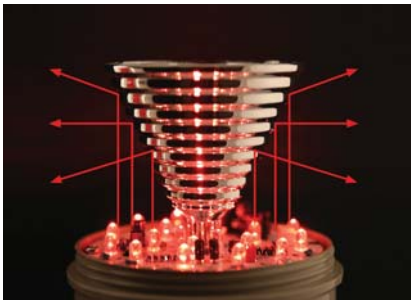
Specifications

Model number	Voltage	Current	Certificates	Weight	Color
S125L	DC12V	0.300A	KIMM, CE, DC only	0.33kg	R-Red, A-Amber, G-Green, B-Blue
	DC24V	0.200A		0.33kg	
	AC110V	0.060A		0.51kg	
	AC220V	0.030A		0.51kg	

Technical Diagram

(Units : mm)





Feature of indirect light diffusing system

Qlight's Indirect light diffusing system emits an intense and constant level of signal light via a multi-tiered reflector throughout the lens.

Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

Customization

- 2 buzzer sound types : Both prolonged (beep, beep) and staccato(beep, beep, beep) buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount

Wall Mount Bracket **SWP125**

Wall Mount Bracket **SWM125**

Ordering Specification

S125L	-	BZ	-	220	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S125L		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

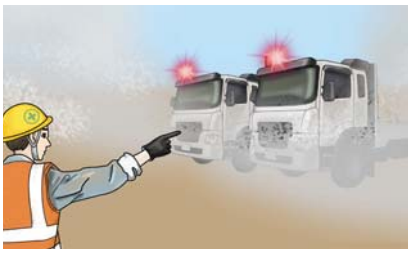
S125 series

Ø125mm Xenon Strobe Signal Lights

IP54 | -30~+50°C | N S MAGNET

S125S

S125SM



Excellent visibility in fog and dust environments.

Customization

- AC type(S125SM)
- Wall mount bracket options (S125S) : Bracket structure allows for threading through the bracket hole or into the wall mount

Wall Mount Bracket
SWP125

Wall Mount Bracket
SWM125

Common Specifications(S125S/ S125SM)

- Ø125mm xenon strobe signal lights
- High efficiency strobe light that offers excellent outdoor visibility and long-distance signal light luminance close to natural light
- Lamp connector for convenient lamp replacement
- Flashing rate : 60-80 flashes/min
- Materials : Lens-AS, Housing-ABS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP54

S125S Xenon Strobe Signal Light

- Certificates : CE Compliant

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S125S	DC12V	1.001A	200V -550V	EUB0641 -1A(G) U type	48	CE	0.37kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.616A					0.37kg	
	AC110V	0.133A				-	0.32kg	
	AC220V	0.106A					0.32kg	

Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

S125SM Magnet Mount Xenon Strobe Signal Light

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S125SM	DC12V	1.001A	220V -350V	EUB0641 -1A(G) U type	48	-	0.40kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.616A					0.40kg	

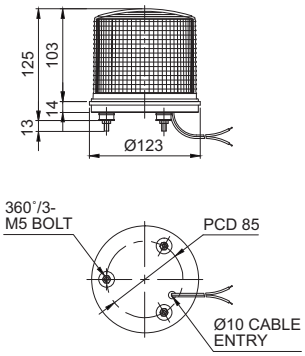
Wiring Instructions

- Cigarette lighter plug, IEC42(0.75sq)×2P 2m

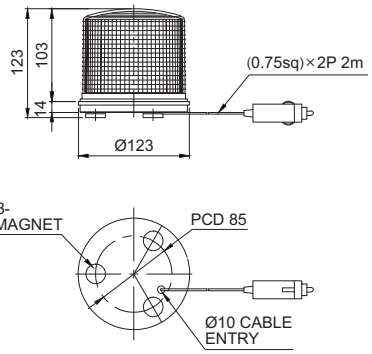
Technical Diagram

(Units : mm)

S125S



S125SM



Ordering Specification

S125S	-	220	-	R
[Model number]		[Voltage]		[Color]
• S125S • S125SM		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

SK series

Streamlined Bulb/ LED Revolving Warning Lights

IP54 | -20~+50°C | N S MAGNET

SK/ SKH

SKM/ SKMH

A spare bulb inside the SK series allows for immediate bulb replacement when damaged.

Ordering Specification

SKMH	-	24	-	R
[Model number]		[Voltage]		[Color]
• SK • SKH • SKM • SKMH		• 12-DC12V • 24-DC24V		• R-Red • A-Amber • G-Green • B-Blue

Common Specifications(SK/ SKM/ SKMP/ SKMPLR)

- Adopts a special power transmission system that reduces noise and wear
- Metal body structure inside the cover gives the product a stylish look
- Contains a spare bulb inside the product
- Materials : Lens-PC, Housing-PC, Reflector-PC/STS
- Revolving speed : 120-140RPM
- Ambient operating temperature : -20°C to +50°C
- Protection rating : IP54

SK/ SKH Streamlined Bulb Revolving Warning Lights

- SKH : Features super-bright high intensity with 35W halogen bulb

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
SK	DC12V	1.544A	12V15W	G23 15S	17	-	0.54kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.766A	24V15W	G23 15S	18		0.54kg	
SKH	DC12V	3.077A	12V35W	15S halogen	39		0.54kg	
	DC24V	1.544A	24V35W	15S halogen	40		0.54kg	

Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- DC Type : Black output lines is negative(-)

SKM/ SKMH Streamlined Bulb Revolving Warning Lights with Magnet

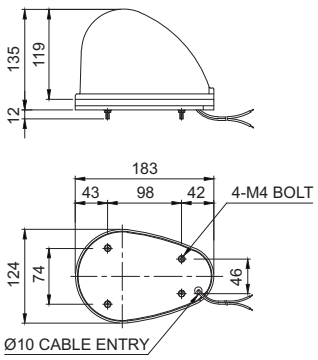
- Securely attached to the vehicle's surface by 4 strong magnets
- SKMH : Features a super-bright high intensity 35W halogen bulb

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
SKM	DC12V	1.544A	12V15W	G23 15S	17	-	0.58kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.766A	24V15W	G23 15S	18		0.58kg	
SKMH	DC12V	3.077A	12V35W	15S halogen	39		0.59kg	
	DC24V	1.544A	24V35W	15S halogen	40		0.59kg	

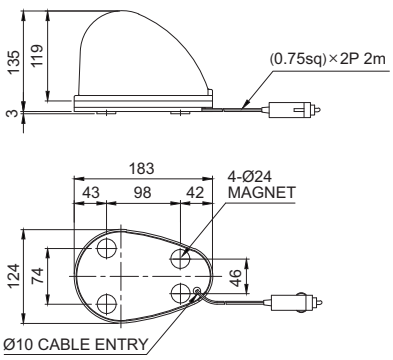
Technical Diagram

(Units : mm)

SK/ SKH



SKM/ SKMH



Wiring Instructions

- Cigarette lighter plug, IEC42(0.75sq)×2P 2m

IP54 | -20~+50℃ | N S MAGNET

Revolving warning lights with detachable rubber magnet for emergency response vehicles

SKMP/ SKMPH

SKMPLR

Special rubber magnet adheres securely to the vehicle's surface without damaging it!

SKMP, SKMPH, SKMPLR has a large-sized rubber magnet to prevent potential damage on the vehicle's surface. The special rubber magnet adheres securely to the vehicle and it does not detached from sudden deceleration and road impacts.

SKMP/ SKMPH Streamlined Bulb Revolving Warning Lights

- Exceptional attachment to vehicles which operate in shock and vibration environments The rubber magnet securely attaches along the curved surfaces of the vehicle
- Detachable rubber magnet equipped to prevent potential scratches in vehicle's surface
- Contains a spare bulb inside the product
- Easy power connection with cigarette lighter plug equipped
- DC(12V, 24V) only

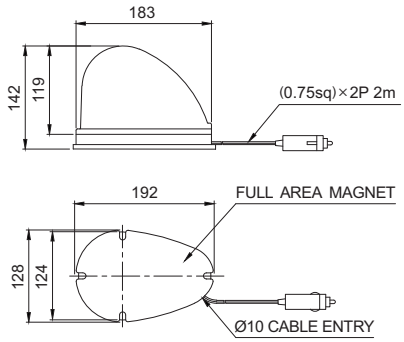
Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
SKMP	DC12V	1.544A	12V15W	G23 15S	17	-	0.78kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.766A	24V15W	G23 15S	18		0.78kg	
SKMPH	DC12V	3.077A	12V35W	15S halogen	39		0.78kg	
	DC24V	1.544A	24V35W	15S halogen	40		0.78kg	

SKMPLR Streamlined LED Revolving Warning Light

Model number	Voltage	Current	Certificates	Weight	Color
SKMPLR	DC12V	0.422A	-	0.63kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.266A		0.63kg	

Technical Diagram (Units : mm)

SKMP/ SKMPH/ SKMPLR



Wiring Instructions

- Cigarette lighter plug, IEC42(0.75sq)×2P 2m

Customization

- Oval-shaped rubber magnet

Oval-shaped rubber magnet

Ordering Specification

SKMP	-	24	-	R
[Model number]		[Voltage]		[Color]
• SKMP • SKMPH • SKMPLR		• 12-DC12V • 24-DC24V		● R-Red ● A-Amber ● G-Green ● B-Blue

SK series

Streamlined LED Revolving Warning Lights

IP54 | -20~+50°C | N S MAGNET | RoHS

Common Specifications(SKLR/ SKMLR)

- Excellent visibility with special multi-faced reflector structure
- Adopts a special power transmission system that reduces noise and wear
- Attractive appearance by installed structure cover inside products
- Materials : Lens-PC, Housing-PC, Reflector-Heat resistant ABS
- Revolving speed : 120-140RPM
- Ambient operating temperature : -20°C to +50°C
- Protection rating : IP54

SKLR

SKLR Streamlined LED Revolving Warning Light

- Has a 4 bolt structure to fix the product
- Compliant with RoHS directive

Model number	Voltage	Current	Certificates	Weight	Color
SKLR	DC12V	0.422A	-	0.38kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.266A		0.38kg	

Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- DC Type : Black output lines is negative(-)

SKMLR

SKMLR Streamlined LED Revolving Warning Light

- 4 strong magnets enable secure attachment to the vehicle

Model number	Voltage	Current	Certificates	Weight	Color
SKMLR	DC12V	0.422A	-	0.46kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.266A		0.46kg	

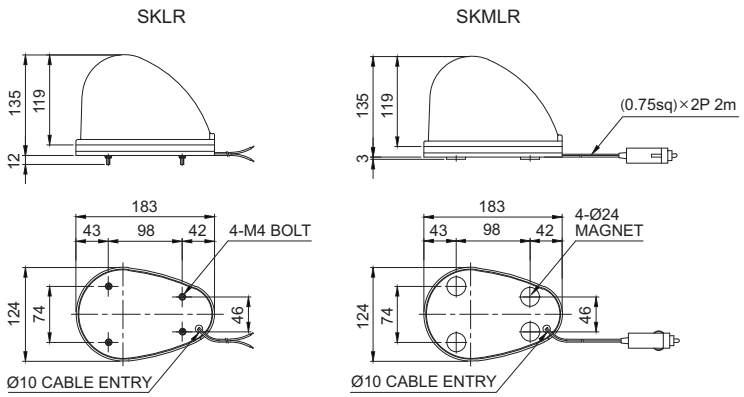
Wiring Instructions

- Cigarette lighter plug, IEC42(0.75sq)×2P 2m

SKMLR equipped on patrol vehicle.

Technical Diagram

(Units : mm)



Ordering Specification

SKLR	-	24	-	R
[Model number]		[Voltage]		[Color]
• SKLR • SKMLR		• 12-DC12V • 24-DC24V		● R-Red ● A-Amber ● G-Green ● B-Blue

SKTL series

Cubic LED Warning Lights for Vehicles

IP66 | -30~+50°C | BUZZER | 105dB | N S MAGNET

SKTL

SKTLB

Common Specifications(SKTL/ SKTLB)

- High brightness LED with special light filter structure provides clear signal light transmission even in outdoor environments with intense sunlight
- Excellent vibration and impact resistance with use of polycarbonate lens
- Lens with special coating material maintains transparency even when exposed to harsh environments where scratches, dust and direct sunlight is possible
- Water resistant, dustproof, and weather resistant structure provides excellent durability under harsh environments such as rainstorms, frost, and intense heat
- Different lights from side to side improve efficiency of emergency signal transmission effect (SKTLM/ SKTLBM)
- 4 strong magnets enable secure attachment to the desired place(SKTLM/ SKTLBM)
- Convenient emergency signal sound control with built-in ON/OFF switch(SKTLBM)
- Materials : Lens, Housing-PC
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP66

SKTL Cube-Shaped LED Warning Light, Direct Mount

- Flashing rate : 60-80 flashes/min

Model number	Voltage	Current	Certificates	Weight	Color
SKTL	DC12V	1.000A	-	0.35kg	● R-Red ● A-Amber ● G-Green ● B-Blue ● W-White
	DC24V	0.555A		0.35kg	

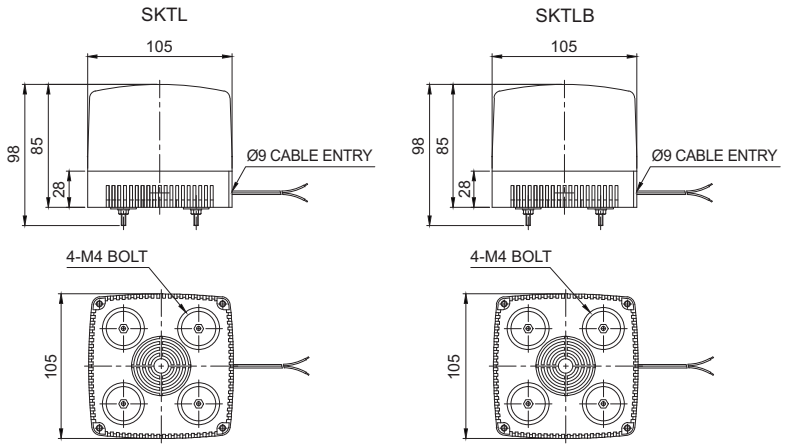
SKTLB Cube-Shaped LED Warning Light with Built-in Siren Buzzer, Direct Mount

- Sound volume : Max 105dB at 1m

Model number	Voltage	Current	Certificates	Weight	Volume	Color
SKTLB	DC12V	1.250A	-	0.45kg	Max 105dB	● R-Red ● A-Amber ● G-Green ● B-Blue ● W-White
	DC24V	0.705A		0.45kg		

Technical Diagram

(Units : mm)



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm

Ordering Specification

SKTL	-	24	-	R/B
[Model number]		[Voltage]		[Color]
• SKTL • SKTLB		• 12-DC12V • 24-DC24V		● R-Red ● A-Amber ● G-Green ● B-Blue ● W-White

SKTL series

Cubic LED Warning Lights for Vehicles

IP66 | -30~+50°C | BUZZER | 105dB | N S MAGNET

SKTLM

Normal cigarette lighter plug

SKTLBM

Operation controlled by ON/OFF switch attached to the cigarette plug

The special rubber magnet adheres securely to the vehicle without damaging the surface of the vehicle!

SKTLM Cube-Shaped LED Warning Light for Vehicles with Magnet

- Flashing rate : 60-80 flashes/min
- 4 strong magnets enable secure attachment to curved vehicle surfaces

Model number	Voltage	Current	Certificates	Weight	Color
SKTLM	DC12V	1.000A	-	0.45kg	●●R/B-Red/Blue
	DC24V	0.555A		0.45kg	

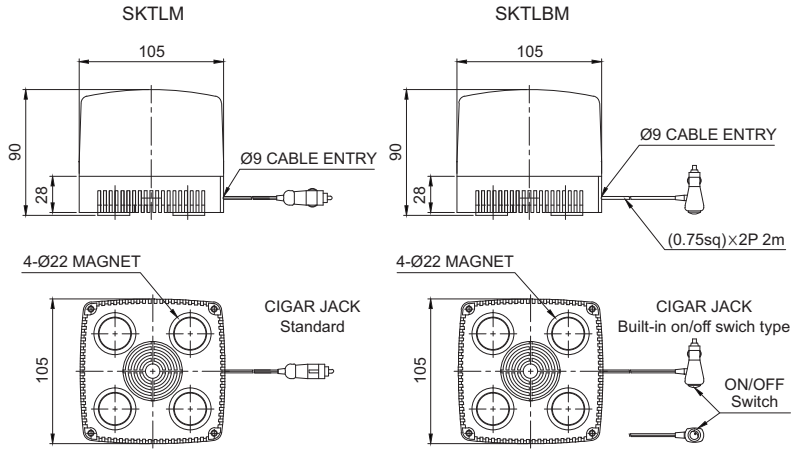
SKTLBM Cube-Shaped LED Warning Light with Built-in Siren Buzzer with magnet, Direct Mount

- Sound volume : Max 105dB at 1m
- Easy control of warning sound with built-in ON/OFF switch

Model number	Voltage	Current	Certificates	Weight	Volume	Color
SKTLBM	DC12V	1.250A	-	0.55kg	Max 105dB	●●R/B-Red/Blue
	DC24V	0.705A		0.55kg		

Technical Diagram

(Units : mm)



Wiring Instructions

- Cigarette lighter plug, IEC42(0.75sq)×2P 2m

Customization

- Additional color combinations available upon customer's request

Ordering Specification

SKTLM	-	24	-	R/B
[Model number]		[Voltage]		[Color]
• SKTLM • SKTLBM		• 12-DC12V • 24-DC24V		●● R/B-Red/Blue

Q60L series

Ø60mm LED Steady/ Flashing Signal Lights

Q60L

Q60LW

Wall mount type model allows for contained and tidy wiring with no exposed wires.

Common Specifications(Q60L/ Q60LW/ Q60LP)

- Small-sized signal lights of 60mm diameter with attractive appearance
- Shock and vibration-resistant, maintenance reduced with long-lasting energy-efficient LED light bulbs
- Selectable mounts available depending on your application environment (direct mount, wall mount, pole mount)
- Materials : Lens-PC, Housing-ABS, Mounting bracket-PC
- Features high visibility with special diffusive lens and direct LED light distribution system
- Built-in buzzer available (Volume : Max 80dB at 1m)
- Built-in switch for selection between steady and flashing light mode
- Flashing rate : 60-80 flashes/min
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP65
- Certificates : CE Compliant, UL Listed
- Compliant with RoHS directive

Model number	Voltage	Current	Certificates	Weight	Color
Q60L Q60LW Q60LP	DC12V-24V	Max 0.140A	CE DC only	• Q60L-0.13kg • Q60LW-0.45kg • Q60LP-1.06kg (Weight Above Include QZ18)	• R-Red • A-Amber • G-Green • B-Blue
	AC110V-220V	Max 0.045A	UL DC only		

※ DC type model has a free-voltage range of 10V-30V.
※ AC type model has a free-voltage range of 100V-240V.

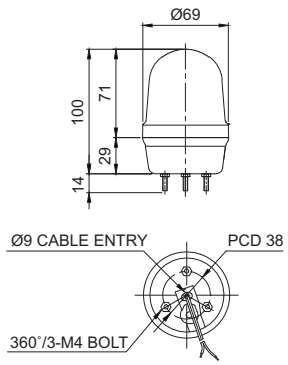
Q60L Direct Mount LED Steady/ Flashing Signal Light

- Direct mount type with the three bolts/screws located on the bottom of the product

Technical Diagram

(Units : mm)

Q60L



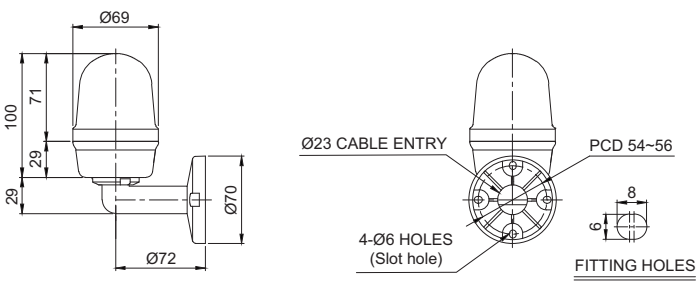
Q60LW Wall Mount LED Steady/ Flashing Signal Light

- Wall mount type with the bracket equipped

Technical Diagram

(Units : mm)

Q60LW



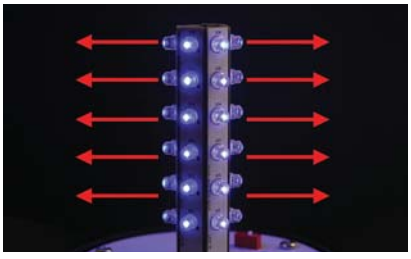
Q60L series

Ø60mm LED Steady/ Flashing Signal Lights

IP65 | -30~+50℃ | BUZZER | 80dB | RoHS

Q60LP

The picture for QZ18 equipped



Direct Light Distribution LED Type (Q60L)

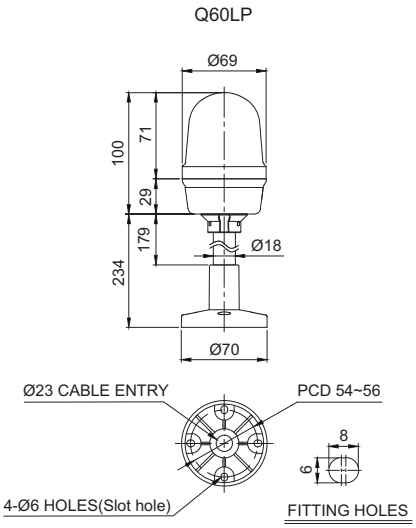
High brightness LED with a direct light distribution system makes the signal bright and clear; visible even from long distances.

Q60LP Pole Mount LED Steady/ Flashing Signal Light

- Pole mount type
- Various mounting options are available

Technical Diagram

(Units : mm)



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

Mounting Bracket

Standard	QZ18	SZ18	SL18	QLA18
Steel	PC	Al	Al	PC

※ Please refer to page144-147 for detailed dimension of mount bracket.

Customization

- Customized pole length available

Ordering Specification

Q60LP	-	BZ	-	12/24	-	R	-	QZ18
[Model number]		[Buzzer option]		[Voltage]		[Color]		[mount bracket]
• Q60L • Q60LW • Q60LP		• None - No buzzer • BZ - Built-in buzzer		• 12/24 -DC12V-24V • 110/220 -AC110V-220V		• R-Red • A-Amber • G-Green • B-Blue		• None - Standard • Bracket - QZ18 - SZ18 - SL18 - QLA18

Q80L series

Ø80mm LED Steady/ Flashing Signal Lights

Q80L

Q80LW

Wall mount type models allow for contained and tidy wiring with no exposed wires.

Common Specifications(Q80L/ Q80LW/ Q80LP)

- Small-sized signal light of 80mm with attractive appearance
- Shock and vibration-resistant, maintenance reduced with long-lasting energy-efficient LED light bulb
- Selectable mounts available depending on your application environment (direct mount, wall mount, pole mount)
- Materials : Lens-PC, housing-ABS, mounting bracket-PC
- Features high visibility with special diffusive lens and direct LED light distribution system
- Built-in buzzer available (Volume : Max 80dB at 1m)
- Built-in switches for steady and flashing light function mode
- Flashing rate : 60-80 flashes/min
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP65
- Certificates : CE Compliant, UL Listed
- Compliant with RoHS directive

Model number	Voltage	Current	Certificates	Weight	Color
Q80L Q80LW Q80LP	DC12V-24V	Max 0.190A	CE DC only	• Q80L-0.15kg • Q80LW-0.57kg • Q80LP-1.09kg (Weight Above Include QZ24)	• R-Red • A-Amber • G-Green • B-Blue
	AC110V-220V	Max 0.052A	UL DC only		

※ DC type model has a free-voltage range of 10V-30V.
※ AC type model has a free-voltage range of 100V-240V.

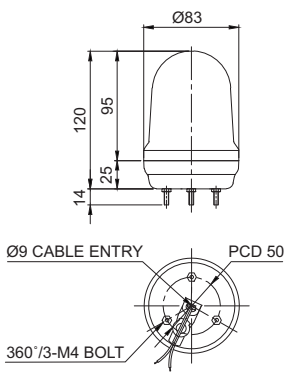
Q80L Direct Mount LED Steady/ Flashing Signal Light

- Direct mount type with the three bolts/screws located on the bottom of the product

Technical Diagram

(Units : mm)

Q80L



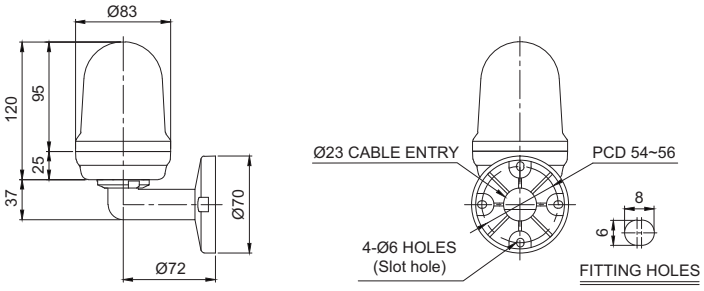
Q80LW Wall Mount LED Steady/ Flashing Signal Light

- Wall mount type with the bracket equipped

Technical Diagram

(Units : mm)

Q80LW



Q80L series

Ø80mm LED Steady/ Flashing Signal Lights

IP65 | -30~+50°C | BUZZER | 80dB | RoHS

Q80LP

The picture for QZ24 equipped

LED Light diffusion shape of direct light distribution

High visibility with special diffusive lens and direct high brightness LED light distribution system.

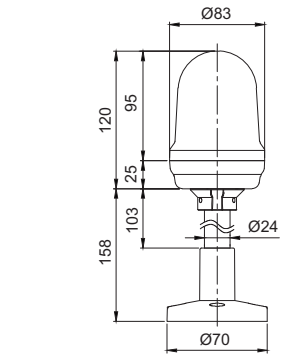
Q80LP Pole Mount LED Steady/ Flashing Signal Light

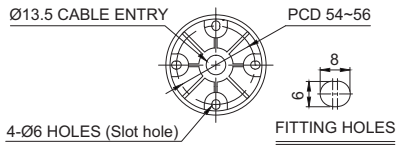
- Pole mount type
- Various mounting options are available

Technical Diagram

(Units : mm)

Q80LP





Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

Mounting Bracket

Standard	QZ24	SZ24	SL24	QLA24
Steel	PC	Al	Al	PC

※ Please refer to page144-147 for detailed dimension of mount bracket.

Customization

- Customized pole length available

Ordering Specification

Q80LP	-	BZ	-	12/24	-	R	-	QZ24
[Model number]		[Buzzer option]		[Voltage]		[Color]		[mount bracket]
• Q80L • Q80LW • Q80LP		• None - No buzzer • BZ - Built-in buzzer		• 12/24 -DC12V-24V • 110/220 -AC110V-220V		• R-Red • A-Amber • G-Green • B-Blue		• None - Standard • Bracket - QZ24 - SZ24 - SL24 - QLA24

Q100L series

Ø100mm LED Steady/ Flashing Signal Lights

IP65 | -30~+50°C | BUZZER | 80dB | RoHS

Q100L

Q100LW

Wall mount type models allow for contained and tidy wiring with no exposed wires.

Common Specifications(Q100L/ Q100LW/ Q100LP)

- Standard-sized signal lights of Ø100mm with attractive appearance
- Shock and vibration-resistant, maintenance reduced with long-lasting energy-efficient LED light source
- Selectable mounts available depending on your application environment (direct mount, wall mount, pole mount)
- Features high visibility with special diffusive lens and direct LED light distribution system
- Built-in buzzer available (Volume : Max 80dB at 1m)
- Built-in switches for steady and flashing light function mode
- Flashing rate : 60-80 flashes/min
- Materials : Lens-PC, Housing-ABS, Bracket-PC
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP65
- Certificates : CE Compliant, UL Listed
- Compliant with RoHS directive

Model number	Voltage	Current	Certificates	Weight	Color
Q100L Q100LW Q100LP	DC12V-24V	Max 0.255A	CE DC only	• Q100L-0.28kg • Q100LW-0.70kg • Q100LP-1.22kg (Weight Above Include QZ24)	• R-Red • A-Amber • G-Green • B-Blue
	AC110V-220V	Max 0.067A	UL DC only		

※ DC type model has a free-voltage range of 10V-30V.
※ AC type model has a free-voltage range of 100V-240V.

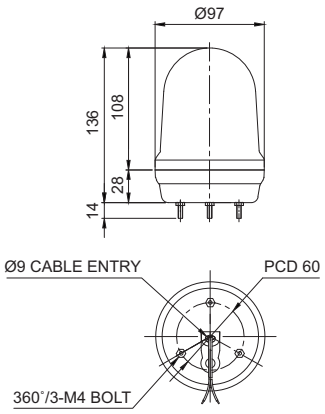
Q100L Direct Mount LED Steady/ Flashing Signal Light

- Direct mount type with the three bolts/screws located on the bottom of the product

Technical Diagram

(Units : mm)

Q100L



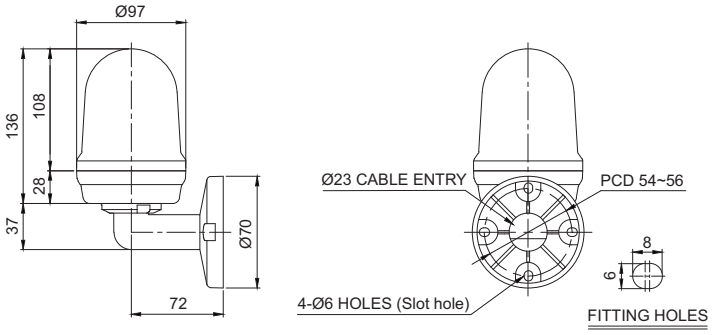
Q100LW Wall Mount LED Steady/ Flashing Signal Light

- Wall mount type with the bracket equipped

Technical Diagram

(Units : mm)

Q100LW



IP65 | -30~+50°C | BUZZER | 80dB | RoHS

Q100LP

The picture for QZ24 equipped

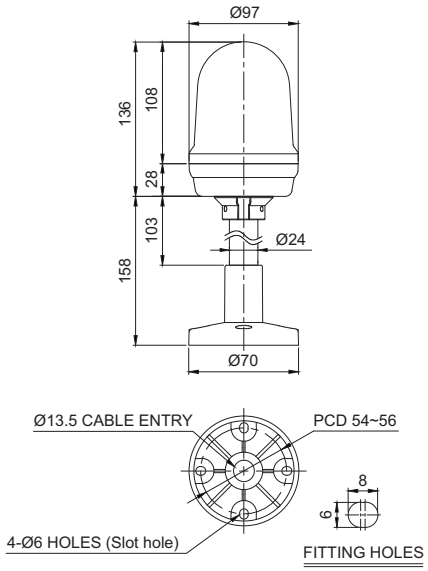
Q100LP Pole Mount LED Steady/ Flashing Signal Light

- Pole mount type
- Selectable mounting bracket available depending on the installation requirements

Technical Diagram

(Units : mm)

Q100LP



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

Mounting Bracket

Standard	QZ24	SZ24	SL24	QLA24
Steel	PC	Al	Al	PC

※ Please refer to page144-147 for detailed dimension of mount bracket.

Customization

- Customized pole length available

Ordering Specification

Q100LP	-	BZ	-	12/24	-	R	-	SZ24
[Model number]		[Buzzer option]		[Voltage]		[Color]		[mount bracket]
• Q100L • Q100LW • Q100LP		• None - No buzzer • BZ - Built-in buzzer		• 12/24 -DC12V-24V • 110/220 -AC110V-220V		• R-Red • A-Amber • G-Green • B-Blue		• None - Standard • Bracket - QZ24 - SZ24 - SL24 - QLA24

Q125L series

Ø125mm LED Steady/ Flashing Signal Lights

IP65 | -30~+50°C | BUZZER | 80dB | RoHS

Q125L

Q125LW

Wall mount type models allow for contained and tidy wiring with no exposed wires.

Common Specifications(Q125L/ Q125LW/ Q125LP)

- Standard-sized signal lights of Ø125mm with attractive appearance
- Shock and vibration-resistant, maintenance reduced with long-lasting energy-efficient LED light bulbs
- Selectable mounts available depending on your application environment (direct mount, wall mount, pole mount)
- Materials : Lens-PC, Housing-ABS, Wall mount bracket-PC
- Features high visibility by applying a special diffusive lens and direct LED light distribution system
- Built-in buzzer available (Volume : Max 80dB at 1m)
- Built-in switches for steady and flashing light function mode
- Flashing rate : 60-80 flashes/min
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP65
- Certificates : CE Compliant, UL Listed
- Compliant with RoHS directive

Model number	Voltage	Current	Certificates	Weight	Color
Q125L Q125LW Q125LP	DC12V-24V	Max 0.255A	CE DC only	• Q125L-0.34kg • Q125LW-0.76kg • Q125LP-1.28kg (Weight above include QZ24)	• R-Red • A-Amber • G-Green • B-Blue
	AC110V-220V	Max 0.067A	UL DC only		

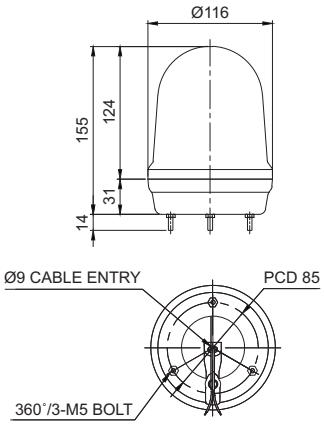
※ DC type model has a free-voltage range of 10V-30V.
※ AC type model has a free-voltage range of 100V-240V.

Q125L Direct Mount LED Steady/ Flashing Signal Light

- Direct mount type with the three bolts located on the bottom of the product

Technical Diagram (Units : mm)

Q125L

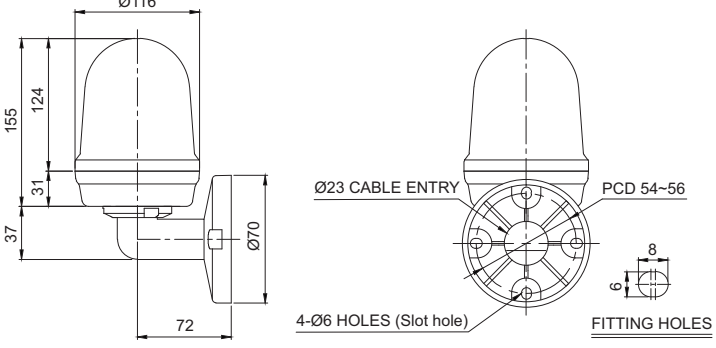


Q125LW Wall Mount LED Steady/ Flashing Signal Light

- Wall mount type with the bracket equipped

Technical Diagram (Units : mm)

Q125LW



Q125L series

Ø125mm LED Steady/ Flashing Signal Lights

IP65 | -30~+50°C | BUZZER | 80dB | RoHS

Q125LP

The picture for QZ24 equipped

QLA24 bracket allows for angle adjustment of 0, 45, 90 degrees by using of angle adjustment button without additional tools.

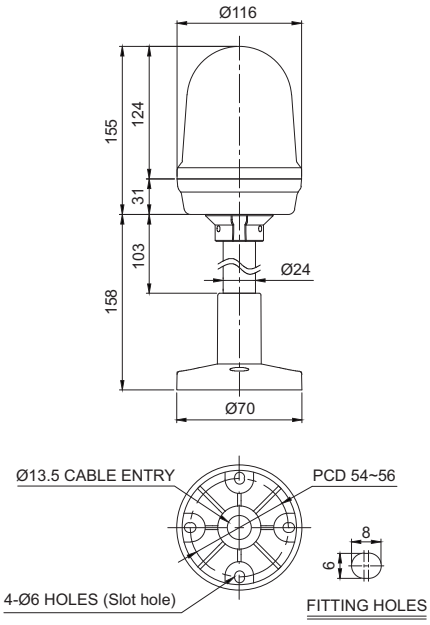
Q125LP Pole Mount LED Steady/ Flashing Signal Light

- Pole mount type
- Selectable mounting bracket available depending on the installation requirements

Technical Diagram

(Units : mm)

Q125LP



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

Mounting Bracket

Standard	QZ24	SZ24	SL24	QLA24
Steel	PC	Al	Al	PC

※ Please refer to page144-147 for detailed dimension of mount bracket.

Customization

- Customized pole length available

Ordering Specification

Q125LP	-	BZ	-	12/24	-	R	-	QLA24
[Model number]		[Buzzer option]		[Voltage]		[Color]		[mount bracket]
• Q125L • Q125LW • Q125LP		• None - No buzzer • BZ - Built-in buzzer		• 12/24 -DC12V-24V • 110/220 -AC110V-220V		• R-Red • A-Amber • G-Green • B-Blue		• None - Standard • Bracket - QZ24 - SZ24 - SL24 - QLA24

S150 series

Ø150mm Large Sized Warning Lights

IP44 | -20~+50°C | BUZZER | 90dB

S150U

S150U-FT

S150ULR

S150ULR-FT

Common Specifications(S150U/ S150ULR)

- Special power transmission system which allows low noise and less wear
- Mounting bracket allows convenient installation in case of XXX-FT type
- Built-in buzzer available (Volume : Max 90dB at 1m)
- Revolving speed : 120-140RPM
- Materials : Lens - PC, Housing - ABS, Reflector - PC/Heat resistant ABS, Mounting bracket - STS
- Ambient operating temperature : -20°C to +50°C
- Protection rating : IP44

S150U/ S150U-FT Bulb Revolving Warning Lights

- Suitable for Long distance signal transmission by adopting high capacity bulb and large sized reflector

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S150U S150U-FT	DC12V	1.155A	12V15W	G23 15S	17	-	0.65kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.766A	24V15W	G23 15S	18		0.65kg	
	AC110V	0.204A	12V15W	G23 15S	17		1.04kg	
	AC220V	0.102A	12V15W	G23 15S	17		1.04kg	

S150ULR/ S150ULR-FT LED Revolving Warning Lights

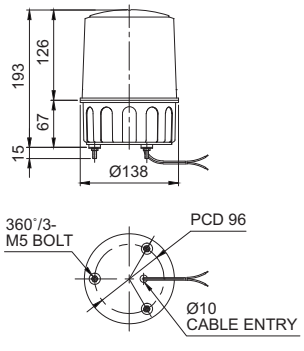
- Excellent omni-directional visibility with LED light collecting system and special multifaceted reflector

Model number	Voltage	Current	Certificates	Weight	Color
S150ULR S150ULR-FT	DC12V	0.422A	-	0.66kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.266A		0.66kg	
	AC110V	0.082A		0.85kg	
	AC220V	0.041A		0.85kg	

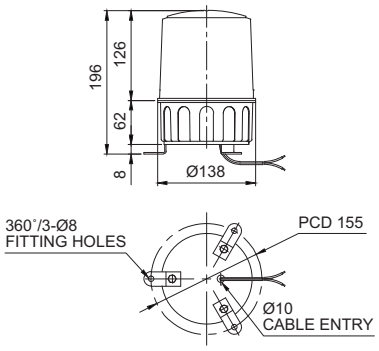
Technical Diagram

(Units : mm)

S150U/ S150ULR



S150U-FT/ S150ULR-FT



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- DC Type : Black output line is negative(-)

Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available

Ordering Specification

S150U	-	BZ	-	220	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S150U • S150U-FT • S150ULR • S150ULR-FT		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

S150 series

Ø150mm Large Sized Warning Lights

IP44 -20~+50°C

S150R

S150R-FT

S150RLR

S150RLR-FT

Common Specifications(S150R/ S150RLR)

- Features highly durable housing made of corrosion-proof stainless steel (STS)
- Mounting bracket allows convenient installation in case of XXX-FT type
- Revolving speed : 120-140RPM
- Materials : Lens-PC, Housing-STS, Reflector-PC/ Heat resistant ABS, Mount Bracket-STS
- Ambient operating temperature : -20°C to +50°C
- Protection rating : IP44

S150R/ S150R-FT Bulb Revolving Warning Lights

- High power light bulb and large rotating reflector enables superior visibility from a distance
- Certificates : CE Compliant

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S150R S150R-FT	DC12V	1.155A	12V15W	G23 15S	17	CE	0.85kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.766A	24V15W	G23 15S	18		0.85kg	
	AC110V	0.204A	12V15W	G23 15S	17	-	1.24kg	
	AC220V	0.102A	12V15W	G23 15S	17		1.24kg	

S150RLR/ S150RLR-FT LED Revolving Warning Lights

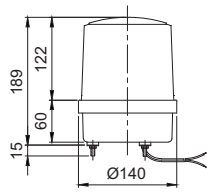
- Excellent omni-directional visibility with LED light collecting system and special multifaceted reflector

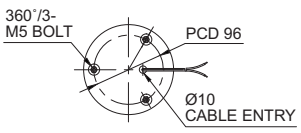
Model number	Voltage	Current	Certificates	Weight	Color
S150RLR S150RLR-FT	DC12V	0.422A	-	0.77kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.266A		0.77kg	
	AC110V	0.082A		1.16kg	
	AC220V	0.041A		1.16kg	

Technical Diagram

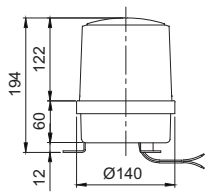
(Units : mm)

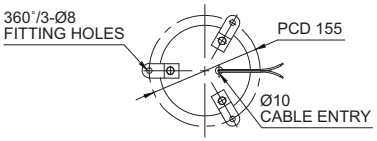
S150R/ S150RLR





S150R-FT/ S150RLR-FT





Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- DC Type : Black output line is negative(-)

Ordering Specification

S150R	-	220	-	R
[Model number]		[Voltage]		[Color]
• S150R • S150R-FT • S150RLR • S150RLR-FT		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

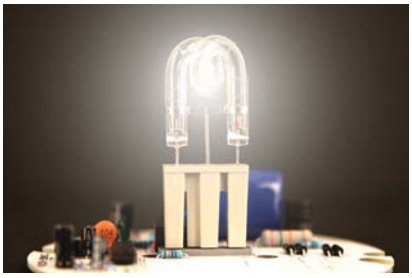
S150 series

Ø150mm Large Sized Warning Lights

IP44 | -30~+50°C | BUZZER | 90dB

S150UL/ S150US

S150UL-FT/ S150US-FT



Hyper illuminance xenon lamp

- S150US/S150US-FT can be optionally equipped with a hyper illuminance xenon lamp bulb BH0647(G) upon the customers request.
  (model number : S150UHS/S150UHS-FT)
- Dimension, mounting hole and other functions are identical with normal type.

Common Specifications(S150UL/ S150US)

- Mounting bracket allows convenient installation in case of XXX-FT type
- Built-in buzzer available (Volume : Max 90dB at 1m)
- Flashing rate : 60-80 flashes/min
- Materials : Lens - PC, Housing - ABS, Reflector - Heat resistant ABS, Mounting bracket - STS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP44

S150UL/ S150UL-FT LED Steady/ Flashing Signal Lights

- Built-in switch for selection between steady and flashing mode

Model number	Voltage	Current	Certificates	Weight	Color
S150UL S150UL-FT	DC12V	0.300A	-	0.52kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.200A		0.52kg	
	AC110V	0.060A		0.92kg	
	AC220V	0.030A		0.92kg	

S150US/ S150US-FT Xenon Lamp Strobe Signal Lights

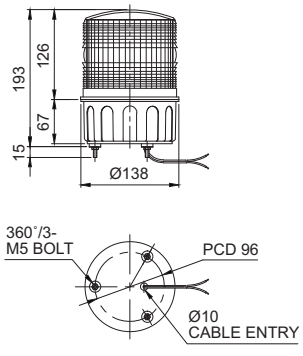
- Connector type lamp socket allows convenient lamp replacement

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S150US S150US-FT	DC12V	1.001A	200V -550V	EUB0641 -1A(G) U Type	48	-	0.56kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.616A					0.56kg	
	AC110V	0.133A					0.54kg	
	AC220V	0.106A					0.54kg	

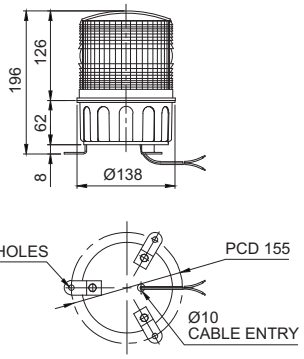
Technical Diagram

(Units : mm)

S150UL/ S150US



S150UL-FT/ S150US-FT



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- Hyper illuminance xenon lamp type(model number : S150UHS/S150UHS-FT)

Ordering Specification

S150UL	-	BZ	-	220	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S150UL • S150UL-FT • S150US • S150US-FT		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

S150 series

Ø150mm Large Sized Warning Lights

IP44 -30~+50°C

S150RL/ S150RS

S150RL-FT/ S150RS-FT

Common Specifications(S150RL/ S150RS)

- Stainless Steel(STS) housing allows excellent anti-corrosiveness and durability
- Mounting bracket allows convenient installation in case of XXX-FT type
- Flashing rate : 60-80 flashes/min
- Materials : Lens - AS, Housing - STS, Reflector - Heat resistant ABS, Mounting bracket - STS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP44

S150RL/ S150RL-FT LED Steady/ Flashing Signal Lights

- Built-in switch for selection between steady and flashing mode

Model number	Voltage	Current	Certificates	Weight	Color
S150RL S150RL-FT	DC12V	0.300A	-	0.64kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.200A		0.64kg	
	AC110V	0.060A		0.92kg	
	AC220V	0.030A		0.92kg	

S150RS/ S150RS-FT Xenon Lamp Strobe Signal Lights

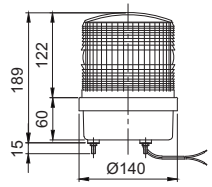
- Connector type lamp socket allows convenient lamp replacement

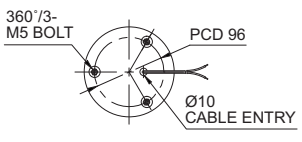
Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S150RS S150RS-FT	DC12V	1.001A	200V -550V	EUB0641 -1A(G) U Type	48	-	0.68kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.616A					0.68kg	
	AC110V	0.133A					0.66kg	
	AC220V	0.106A					0.66kg	

Technical Diagram

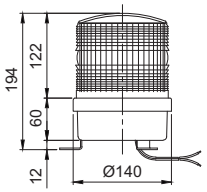
(Units : mm)

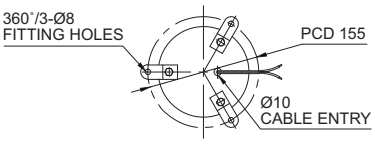
S150RL/ S150RS

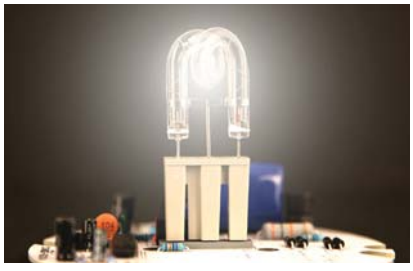




S150RL-FT/ S150RS-FT







Hyper illuminance xenon lamp

- S150RS/S150RS-FT can be optionally equipped with a hyper illuminance xenon lamp bulb BH0647(G) upon the customers request.
  (model number : S150RHS/S150RHS-FT)
- Dimension, mounting hole and other functions are identical with normal type.

Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

Customization

- Hyper illuminance xenon lamp type(model number : S150RHS/S150RHS-FT)

Ordering Specification

S150RS	-	220	-	R
[Model number]		[Voltage]		[Color]
• S150RL • S150RL-FT • S150RS • S150RS-FT		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

S180 series

Ø180mm Bulb Revolving Warning Lights

IP44 -20~+50℃

S180R

S180R-FT

S180 type has strong flashing light characteristics with dual reflector.

S180R/ S180R-FT Bulb Revolving Warning Lights

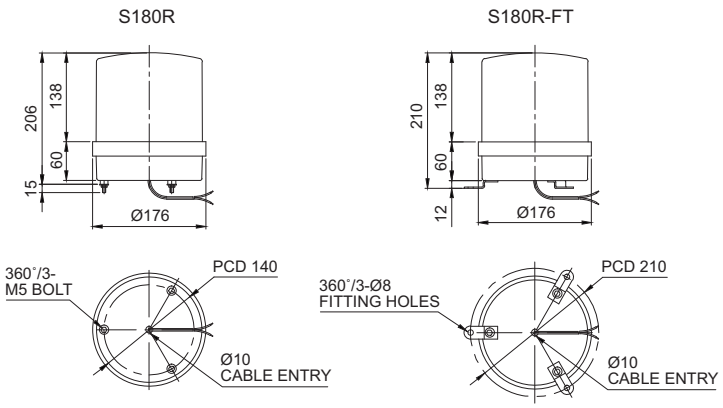
- Features high durability with housing made of corrosion-proof stainless steel
- Excellent long distance signal transmission effect with 35W capacity bulb and dual reflectors
- FT Models : Easy installation with flange brackets
- Materials : Lens-AS, Housing-STS, Reflector-PC
- Ambient operating temperature : -20°C to +50°C
- Protection rating : IP44

Specifications

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S180R S180R-FT	DC12V	3.077A	12V35W	RP35 15S	29	-	1.22kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	1.544A	24V35W	RP35 15S	30		1.22kg	
	AC110V	0.388A	12V35W	RP35 15S	29		1.99kg	
	AC220V	0.194A	12V35W	RP35 15S	29		1.99kg	

Technical Diagram

(Units : mm)



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- DC type : Black output line is negative(-)

Ordering Specification

S180R-FT	-	24	-	R
[Model number]		[Voltage]		[Color]
• S180R • S180R-FT		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

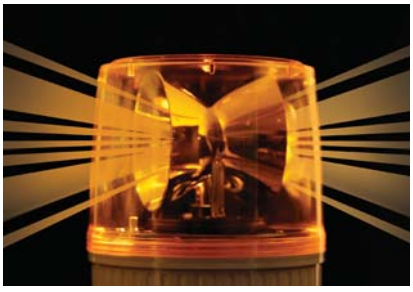
S180 series

Ø180mm Bulb Revolving Warning Lights

IP44 | -20~+50°C | BUZZER | 90dB

S180U

S180U has a spare bulb inside the product for easy replacement if required.



S180 type has strong flashing light characteristics with dual reflector.

S180U Bulb Revolving Warning Light

- Excellent long distance signal transmission effect with 35W capacity bulb and dual reflectors
- A spare bulb is provided inside the product for quick replacement if provided
- Built-in buzzer available (Volume : Max 90dB at 1m)
- Materials : Lens-AS, Housing-ABS, Reflector-PC
- Ambient operating temperature : -20°C to +50°C
- Protection rating : IP44

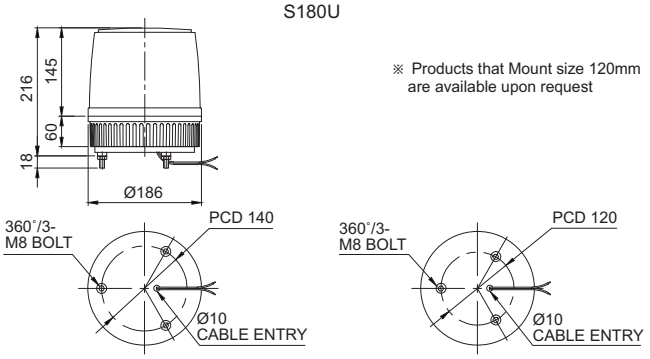
Specifications

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S180U	DC12V	3.077A	12V35W	RP35 15S	29	-	0.89kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	1.544A	24V35W	RP35 15S	30		0.89kg	
	AC110V	0.388A	12V35W	RP35 15S	29		1.65kg	
	AC220V	0.194A	12V35W	RP35 15S	29		1.65kg	

Technical Diagram

(Units : mm)

S180U



※ Products that Mount size 120mm are available upon request

Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- DC type : Black output line is negative(-)

Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- The product mount hole size 120mm(PCD 120mm)

Ordering Specification

S180U	-	BZ	-	220	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S180U		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue

S180 series

Ø180mm Xenon Lamp Strobe Signal Lights

IP44 | -30~+50°C | BUZZER | 90dB

S180US/ S180UHS

S180UHS is equipped with the hyper brightness xenon lamp, and emits a strong flashing light.

S180UHS ultra high intensity strobe light has 3 built-in high intensity xenon lamps!

Maintains excellent visibility even in distant environments where there is a lot of fog or dust.

S180UHS type is a product that improves long distant visibility by equipping three high-intensity xenon lamps. The high performance product is typically used in habors where there is fog, or mills/ steel mills where there is dust.

Common Specifications(S180US/ S180UHS)

- Excellent long distance visibility from flashing light of the high capacity xenon lamp
- Adopts a translucent lens which provides a luminous light and subdued signal
- Convenient lamp change adopts lamp connector type structure
- Built-in buzzer available(Volume : Max 90dB at 1m)
- Materials: Lens-ABS, Housing-ABS
- Flashing rate : 60-80 flashes/min(2 time consecutively flashing off or two in a row)
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP44

S180US Xenon Lamp Strobe Signal Light

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S180US	DC12V	1.277A	280V -400V	BH0647(G) W Type	49	-	0.84kg	R-Red
	DC24V	0.655A					0.84kg	A-Amber
	AC110V	0.233A					0.80kg	G-Green
	AC220V	0.186A					0.80kg	B-Blue

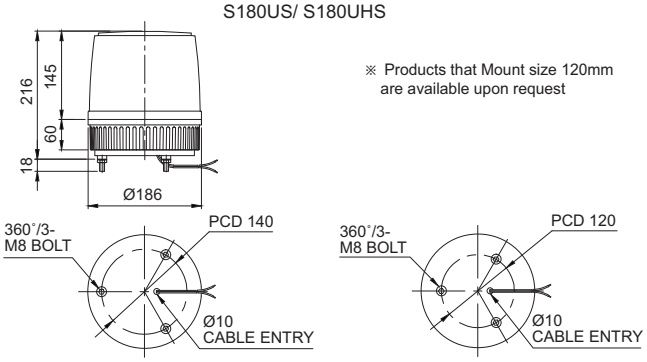
S180UHS Hyper Brightness Xenon Lamp Strobe Signal Light

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S180UHS	DC12V	2.277A	280V -400V	BH0647(G) W Type	49	-	1.18kg	R-Red
	DC24V	1.055A					1.18kg	A-Amber
	AC110V	0.711A					1.02kg	G-Green
	AC220V	0.422A					1.02kg	B-Blue

Technical Diagram

(Units : mm)

S180US/ S180UHS



※ Products that Mount size 120mm are available upon request

Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- DC type : Black output line is negative(-)

Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- The product mount hole size 120mm(PCD 120mm)

Ordering Specification

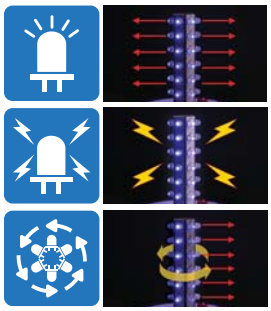
S180US	-	BZ	-	220	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• S180US • S180UHS		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

MFL series

Multiple Function LED Signal Lights

IP65 | -30~+50°C | BUZZER | 80dB | RoHS

Operating steady/ flashing, strobe, simulated revolving flashing, Multiple function LED signal lights



- **LED Steady/ Flashing**
  Repeat operation of LED signal light on/off
- **LED Strobe**
  Short LED Steady/ Flashing cycle. Creates a xenon flashing effect by providing maximum electric current
- **LED Simulated Revolving**
  LEDs flash steadily around the cylindrical LED filaments which makes a simulated revolving effect

Manual switch to select operation

ON=1 / OFF=0

Operate 4 kinds of function by dip switches

No.	1	2	Operation
0	0	0	LED Steady
1	0	1	LED flashing
2	1	0	LED Strobe
3	1	1	LED Simulated revolving flashing

MFL60

MFL80

Common Specifications(MFL60/ MFL80/ MFL100/ MFL125)

- Product has multi functions of LED Steady/ Flashing, strobe, and simulated revolving
- Operating options with switches inside product or external connect
- Shock and vibration-resistant, maintenance reduced with long-lasting energy-efficient LED light bulb
- Built-in buzzer available(Volume : Max 80dB at 1m)
- Flashing type(LF) flashing rates : 60-80 flashes/min
- Strobe type(LS) flashing rates : 70-80 flashes/min
- Simulated revolving type(LR) flashing rates : 120-140 flashes/min

Materials : Lens-PC, housing-ABS, Mounting bracket-PC

- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP65
- Certificates : CE Compliant
- Compliant with RoHS directive

MFL60 Ø60mm Multiple Function LED Signal Light

Model number	Voltage	Current	Certificates	Weight	Color
MFL60	DC12V-24V	Max 0.140A	CE UL DC only	0.21kg	R-Red A-Amber G-Green B-Blue
	AC110V-220V	Max 0.045A		0.32kg	

MFL80 Ø80mm Multiple Function LED Signal Light

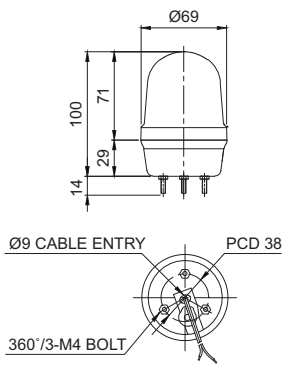
Model number	Voltage	Current	Certificates	Weight	Color
MFL80	DC12V-24V	Max 0.190A	CE UL DC only	0.28kg	R-Red A-Amber G-Green B-Blue
	AC110V-220V	Max 0.052A		0.51kg	

※ DC type model has a free-voltage range of 10V-30V.
※ AC type model has a free-voltage range of 100V-240V.

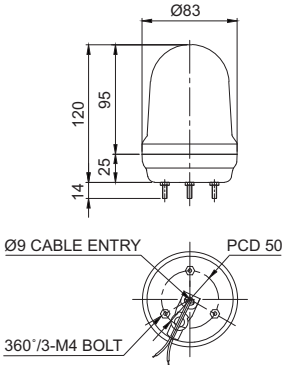
Technical Diagram

(Units : mm)

MFL60



MFL80



MFL series

LED Signal Light with Multiple Light Functions

IP65 | -30~+50°C | BUZZER | 80dB | RoHS

Multi-functional model with selectable steady/ flashing strobe, and simulated revolving flashing mode

MFL100

MFL125

MFL100 Ø100mm Multiple Light Function LED Signal Light

Model number	Voltage	Current	Certificates	Weight	Color
MFL100	DC12V-24V	Max 0.255A	CE UL DC only	0.30kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	AC110V-220V	Max 0.067A		0.52kg	

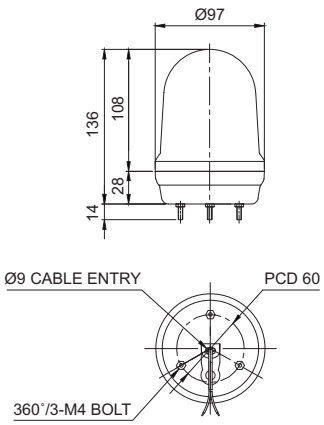
MFL125 Ø125mm Multiple Light Function LED Signal Light

Model number	Voltage	Current	Certificates	Weight	Color
MFL125	DC12V-24V	Max 0.255A	CE UL DC only	0.52kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	AC110V-220V	Max 0.067A		0.92kg	

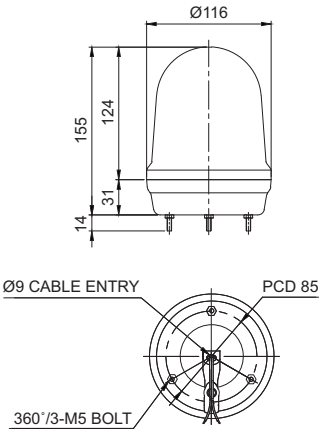
※ DC type model has a free-voltage range of 10V-30V.
※ AC type model has a free-voltage range of 100V-240V.

Technical Diagram (Units : mm)

MFL100



MFL125



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Product can be wired regardless of polarity

Accessories

- Wall mounting bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount

- MFL60

Wall Mount Bracket **TWS45**

Wall Mount Bracket **TWA45**

- MFL80

Wall Mount Bracket **TWS80**

Wall Mount Bracket **TWA80**

- MFL100/ MFL125

Wall Mount Bracket **SWP125**

Wall Mount Bracket **SWM125**

Ordering Specification

MFL100	-	BZ	-	110/220	-	R
[Model number]		[Buzzer option]		[Voltage]		[Color]
• MFL60 • MFL80 • MFL100 • MFL125		• None - No buzzer • BZ - Built-in buzzer		• 12/24 -DC12V-24V • 110/220 -AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue

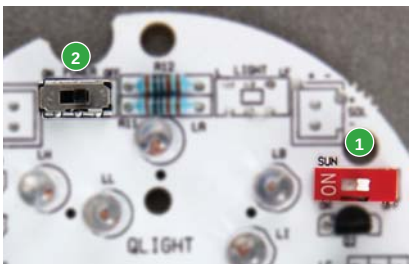
SOL series

Solar Rechargeable LED Flashing Signal Lights

IP54 -25~+50°C

- Applicable in road construction sites with a limited power supply
- Applicable on vehicles that require a warning light at night
- Can be used to display vehicle position in dark residential parking areas

S80SOL



1 **Sun Switch**
Automatically turns on the light when darkness is detected.
Factory default is set to OFF.

2 **Power Switch**
ON/OFF power switch that prevents discharge prior to use.
Factory default is set to OFF.

SOL solar light model does not require external power supply or wiring!

Features High Energy Efficiency and Longevity

SOL Solar light models can be used in environmental conditions where power supply is limited or wiring is difficult.

Features High Energy Efficiency and Longevity

Qlight's solar rechargeable signal lights have a special design that mounts the solar panels inside a structure that minimizes adverse effects such a dust and moisture. This improves the efficiency and extends the lifetime of the product.

High-tide maritime surveillance systems

Low-speed night vehicle operation

Common Specifications(S80SOL/ S100SOL/ S125SOL)

- Solar rechargeable LED flashing signal light that does not require an external power supply or wiring
- Built-in Darkness Detection System that automatically begins to operate when darkness is detected
- Fully enclosed structure that can withstand storm and severe dust environments (IP54)
- Prevents discharge using a built-in power switch
- Flashing Rate : 60-80 flashes/min
- Materials : Lens-AS, Body-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -25°C to +50°C
- Protection rating : IP54
- Certificates : CE Compliant

S80SOL Ø80mm Solar Rechargeable LED Flashing Signal Light

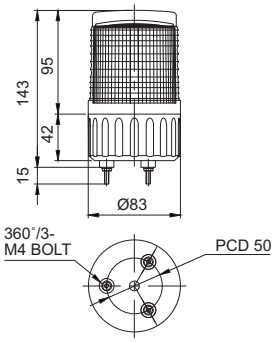
- 80mm Compact model
- A single charge (8 hours) serves up to 30 hours of continuous operation

Model number	Battery Voltage	Battery Capacity	Continuous operating time with no charge	Certificates	Weight	Color Options
S80SOL	2.4V	0.77Ah	30Hr	CE	0.27kg	R-Red A-Amber

Technical Diagram

(Units : mm)

S80SOL



SOL series

Solar Rechargeable LED Flashing Signal Lights

IP54 -25~+50°C

S100SOL

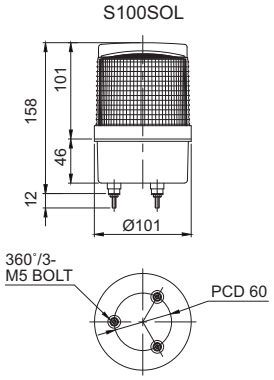
S100SOL Ø100mm Solar Rechargeable LED Flashing Signal Light

- Ø100mm model for general purpose
- 40 hours operation continuous by 1 time recharge(8 hours)

Model number	Battery Voltage	Battery Capacity	Continuous operating time with no charge	Certificates	Weight	Color Options
S100SOL	2.4V	0.77Ah	40Hr	CE	0.41kg	● R-Red ● A-Amber

Technical Diagram

(Units : mm)



S125SOL

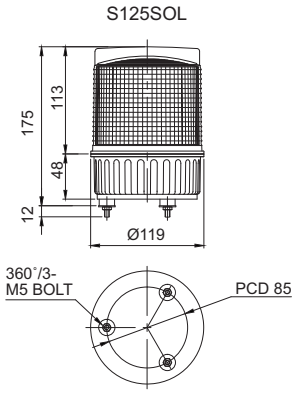
S125SOL Ø125mm Solar Rechargeable LED Flashing Signal Light

- Ø125mm standard item
- 50 hours of continuous operation from 1 time recharge(8 hours)

Model number	Battery Voltage	Battery Capacity	Continuous operating time with no charge	Certificates	Weight	Color Options
S125SOL	2.4V	0.70Ah	50Hr	CE	0.51kg	● R-Red ● A-Amber

Technical Diagram

(Units : mm)



Ordering Specification

S80SOL	-	R
[Model number]		[Color]
• S80SOL • S100SOL • S125SOL		● R-Red ● A-Amber

Accessories

- Magnetic mounting bracket
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount

- S80SOL

Wall Mount Bracket **TWS80**

Wall Mount Bracket **TWA80**

- S100SOL/ S125SOL

Wall Mount Bracket **SWP125**

Wall Mount Bracket **SWM125**

SMCL series

Multiple Color LED Steady/ Flashing Signal Lights

IP44 | -30~+50°C | BUZZER | 90dB | NPN | RoHS

Signal lights that produces two or three multicolored LED signals

This budget model uses a multiple color LED light source to provide signals in two or three colors.

Common Specifications(SMCL80/ SMCL100/ SMCL125)

- Ideal for locations where space requirements need one warning light to convey multiple color signals
- LED light distribution system with multi-tiered reflector provides uniformed light signals throughout the entire lens
- The subdued light provides a comfortable and stable viewing condition for operation in close proximity
- Built-in buzzer available(Volume : Max 90dB at 1m)
- Can select between steady/ flashing mode
- Flashing rate : 60-80 flashes/min
- Materials : Lens-AS, Body-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP44
- Certificates : CE Compliant
- Compliant with RoHS directive

SMCL80

SMCL100

SMCL80 Ø80mm Multi-Color LED Steady/ Flashing Signal Light

Model number	Voltage	Current	Certificates	Weight	Color
SMCL80	DC12V	0.234A	CE DC24V only	0.18kg	● R-Red ● A-Amber ● G-Green
	DC24V	0.132A		0.18kg	
	AC110V	0.066A		0.28kg	
	AC220V	0.033A		0.28kg	

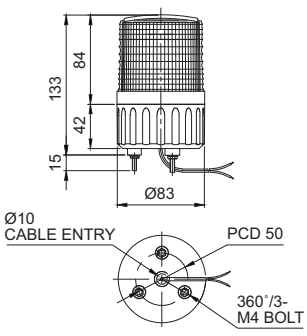
SMCL100 Ø100mm Multi-Color LED Steady/ Flashing Signal Light

Model number	Voltage	Current	Certificates	Weight	Color
SMCL100	DC12V	0.387A	CE DC24V only	0.23kg	● R-Red ● A-Amber ● G-Green
	DC24V	0.212A		0.23kg	
	AC110V	0.093A		0.32kg	
	AC220V	0.046A		0.32kg	

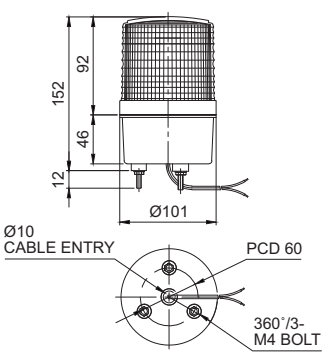
Technical Diagram

(Units : mm)

SMCL80



SMCL100



SMCL series

Multiple Color LED Steady/ Flashing Signal Lights

IP44 | -30~+50°C | BUZZER | 90dB | NPN | RoHS

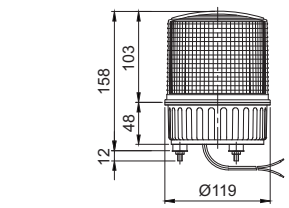
SMCL125

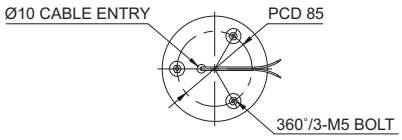
SMCL125 Ø125mm Multi-Color LED Steady/ Flashing LED Signal Light

Model number	Voltage	Current	Certificates	Weight	Color
SMCL125	DC12V	0.410A	CE DC24V only	0.27kg	● R-Red ● A-Amber ● G-Green
	DC24V	0.227A		0.27kg	
	AC110V	0.104A		0.36kg	
	AC220V	0.052A		0.36kg	

Technical Diagram (Units : mm)

SMCL125





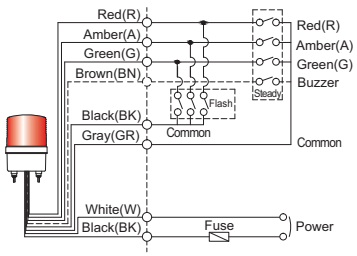
Wiring Instructions

- SMCL type can be wired with external contacts and transistor
- Wiring to transistor, use the NPN transistor. Please wire properly based on wiring instructions
- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- External signal line standard : UL1007 AWG22(0.3sq) 400mm
- Product can be wired regardless of polarity

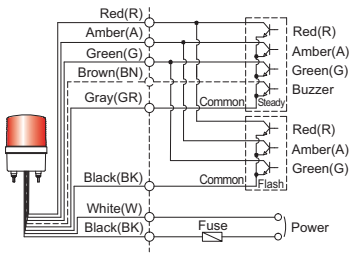
Wiring Instructions

SMCL80/ SMCL100/ SMCL125-DC/AC

EXTERNAL CONTACT



EXTERNAL TRANSISTOR-NPN



Accessories

- Wall mounting bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount

- SMCL80

Wall Mount Bracket **TWS80**

Wall Mount Bracket **TWA80**

- SMCL100/ SMCL125

Wall Mount Bracket **SWP125**

Wall Mount Bracket **SWM125**

Ordering Specification

SMCL100	-	BZ	-	3	-	220	-	RAG
[Model number]		[Buzzer option]		[Color]		[Voltage]		[Color]
• SMCL80 • SMCL100 • SMCL125		• None - No buzzer • BZ - Built-in buzzer		2-2colors 3-3colors		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green

QMCL series

Multiple Color LED Steady Signal Lights

IP65 | -30~+50℃ | BUZZER | 80dB | NPN | PNP | RoHS

• 7 Color modes available via wiring

You can configure seven color signals by combining the 4 signal wires (red, green, blue, black) attached to the warning light.

Multi-Color Warning Light with Seven Color Options

• Emits a cozy and comfortable hue

QMCL series signal lights have a milky translucent hue when turned on. These signal lights provide a comfortable and stable viewing condition for workers in close proximity.

QMCL60

QMCL80

	Voltage	AC/DC12V	AC/DC24V
QMCL60 QMCL80	Signal Line Power Consumption	0.120A	0.060A
	Buzzer Line Power Consumption	0.020A	0.020A
QMCL100 QMCL125	Signal Line Power Consumption	0.240A	0.120A
	Buzzer Line Power Consumption	0.020A	0.020A

Common Specifications(QMCL60/ QMCL80/ QMCL100/ QMCL125)

- Helps reduce the costs of installation by reducing the space needed to emit seven color signals in a single warning light
- Milky translucent color when off, the soft LED illuminates designated color when on
- Built-in buzzer available (Volume : Max 80dB at 1m)
- Materials : Lens-AS, Body-ABS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP65
- Certificates : CE Compliant
- Compliant with RoHS directive

QMCL60 Ø60mm Multiple Color LED Steady Signal Light

Model number	Voltage	Current	Certificates	Weight	Color
QMCL60	DC12V	0.120A	CE	0.12kg	7 Colors
	DC24V	0.060A		0.12kg	

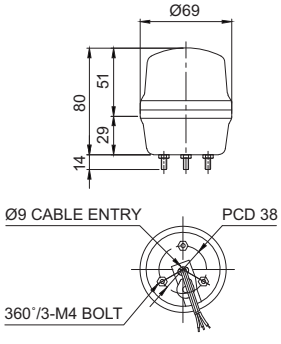
QMCL80 Ø80mm Multiple Color LED Steady Signal Light

Model number	Voltage	Current	Certificates	Weight	Color
QMCL80	DC12V	0.120A	CE	0.17kg	7 Colors
	DC24V	0.060A		0.17kg	

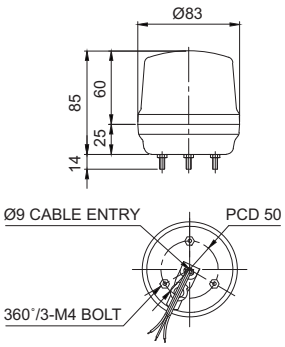
Technical Diagram

(Units : mm)

QMCL60



QMCL80



QMCL series

Multiple Color LED Steady Signal Lights

IP65 | -30~+50°C | BUZZER | 80dB | NPN | PNP | RoHS

New innovative LED signal light that can be configure with 7 colors in 1 signal lamp

QMCL100

QMCL125

QMCL100 Ø100mm Multiple Color LED Steady Signal Light

Model number	Voltage	Current	Certificates	Weight	Color
QMCL100	DC12V	0.240A	CE	0.24kg	7 Colors
	DC24V	0.120A		0.24kg	

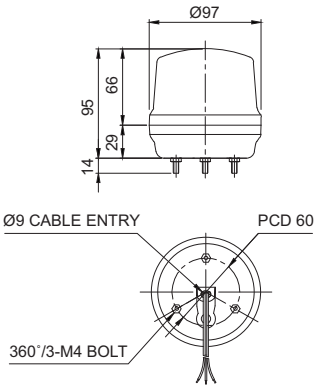
QMCL125 Ø125mm Multiple Color LED Steady Signal Light

Model number	Voltage	Current	Certificates	Weight	Color
QMCL125	DC12V	0.240A	CE	0.31kg	7 Colors
	DC24V	0.120A		0.31kg	

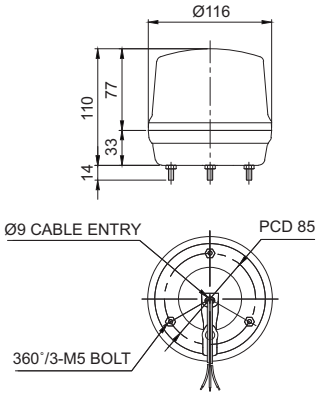
Technical Diagram

(Units : mm)

QMCL100



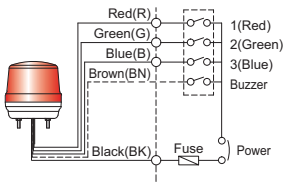
QMCL125



Wiring Instructions

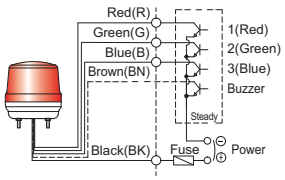
QMCL60/ QMCL80/ QMCL100/ QMCL125-DC

EXTERNAL CONTACT

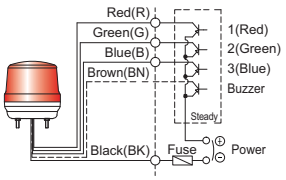


No.	Color	Wiring
1	Red	1(Red)
2	Green	2(Green)
3	Blue	3(Blue)
4	Amber	1(Red)+2(Green)
5	Cyan	2(Green)+3(Blue)
6	Purple	1(Red)+3(Blue)
7	White	1(Red)+2(Green)+3(Blue)

EXTERNAL TRANSISTOR-NPN



EXTERNAL TRANSISTOR-PNP



Wiring Instructions

- External signal line standard : Signal line 4P(R,G,B,K) threading, signal line standard UL1007 AWG22(0.3sq) 400mm
- Product can be wired regardless of polarity
- Please refer to Wiring Instructions diagram to properly configure color options

Ordering Specification

QMCL80	-	BZ	-	24
[Model number]		[Buzzer option]		[Voltage]
• QMCL60 • QMCL80 • QMCL100 • QMCL125		• None - No buzzer • BZ - Built-in buzzer		• 12-DC12V • 24-DC24V

Accessories

- Wall mounting bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount

- QMCL60/ QMCL80

Wall Mount Bracket **TWS80**

Wall Mount Bracket **TWA80**

- QMCL100/ QMCL125

Wall Mount Bracket **SWP125**

Wall Mount Bracket **SWM125**

SWTC series

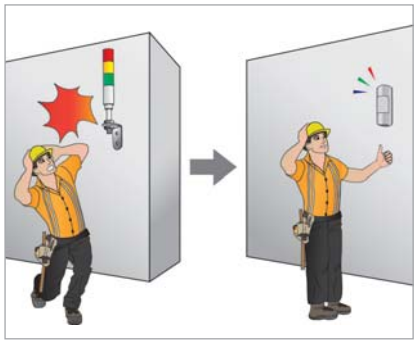
Wall Mounting Multiple Color LED Steady/ Flashing Signal Lights

IP55 | -30~+50°C | BUZZER | 90dB | NPN | PNP | RoHS

New innovative LED signal light that can be configure with 2-3 colors in 1 signal lamp

SWTC
Chromium Plated Body

SWTCE



Semi circular design allows for convenient wall mount

SWTC/ SWTCE Wall Mounting Multiple Color LED Steady/ Flashing Signal Lights

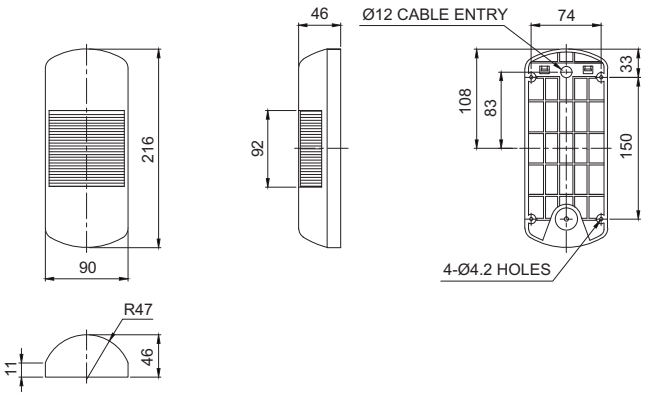
- Cost effective model which transfers two or three signals with one lamp
- Wide angle lens structure provides excellent visibility in all directions
- Excellent visibility by adopting direct LED light radiation structure
- Tightly sealed structure allows outdoor installation
- Lens Colors Arrangement
  Two colors : ●Red ●Green
  Three colors : ●Red ●Amber ●Green
- Built-in buzzer available (Volume Max 90dB at 1m)
- Materials : Lens-PC, Body-ABS, Filter Lens-PC, Cover-ABS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP55
- Certificates : CE Compliant
- Compliant with RoHS directive

Specifications

Model number	Voltage	Current	Certificates	Weight	Color
SWTCL Steady	DC12V	0.444A	CE	0.31kg	● R-Red ● A-Amber ● G-Green
SWTCLF Steady/ Flashing	DC24V	0.200A		0.31kg	
SWTCEL Steady	AC110V	0.073A	-	0.46kg	
SWTCELF Steady/ Flashing	AC220V	0.036A		0.46kg	

Technical Diagram (Units : mm)

SWTC/ SWTCE



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Signal line : UL1007 AWG22(0.3sq) 400mm

※ Please refer to page 72 for detailed wiring information.

Customization

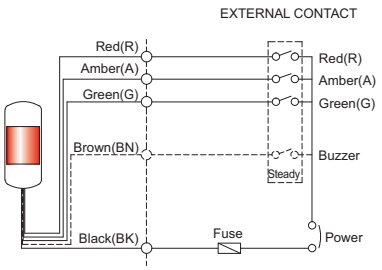
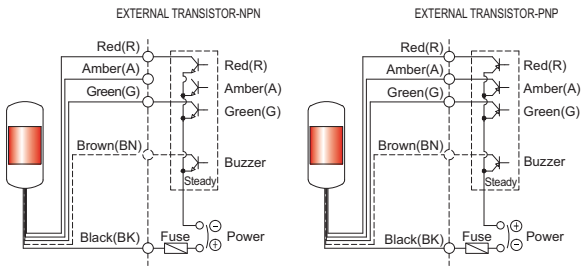
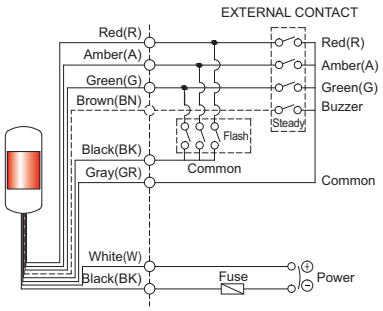
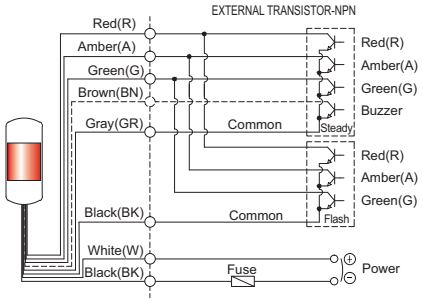
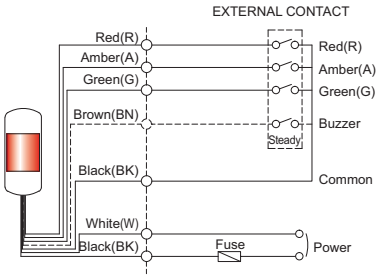
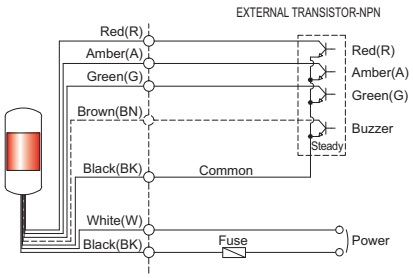
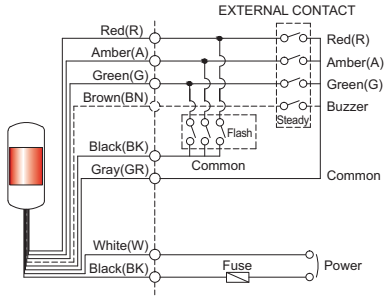
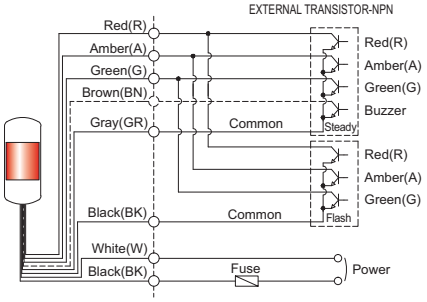
- Special color combination
- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available

Ordering Specification

SWTCL	-	BZ	-	3	-	220	-	RAG
[Model number]		[Buzzer option]		[Colors]		[Voltage]		[Color]
• SWTCL • SWTCLF • SWTCEL • SWTCELF		• None - No buzzer • BZ - Built-in buzzer		2-2color 3-3color		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green

Wiring Instructions

- SWTC series can be wired with external contacts and transistors
- In case of wiring with transistors, please select the proper transistor type : Either NPN or PNP based on the source voltage setting
- Please wire properly based on the technical diagram
- Product can be wired regardless of polarity

	By external contact	By transistor
DC Steady type	SWTC(E)L-DC 	SWTC(E)L-DC 
DC Steady/ Flashing type	SWTC(E)LF-DC 	SWTC(E)LF-DC 
AC Steady type	SWTC(E)L-AC 	SWTC(E)L-AC 
AC Steady/ Flashing type	SWTC(E)LF-AC 	SWTC(E)LF-AC 

- DC steady type : External power line and signal line standard : UL1007 AWG22(0.3sq) 400mm
- AC steady, AC/DC steady/ flashing type : External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
  Signal line standard : UL1007 AWG22(0.3sq) 400mm

SR series

Stackable Warning/ Signal Lights

IP44 | -20~+50℃ | NPN | PNP

SR

SRP

Common Specifications(SR/SRL)

- Ø80mm stacked structure
- Multi signal transmissions capable in 1 signal light
- Standard color
  1st layered - ● Red
  2nd layered - ● Red ● Green
  3rd layered - ● Red ● Yellow ● Green
- Materials : Lens-AS, Body-ABS, Reflector-Heat resistant ABS
- Protection rating : IP44

SR/ SRP Bulb Revolving Tower Warning/ Signal Lights

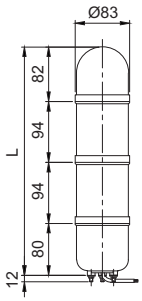
- Adopts a special power transmission system that reduces noise and wear
- 2nd & 3rd stacked lens colors can be changeable except for the top layer lens
- Revolving speed : 120-140RPM
- Ambient operation temperature : -20°C to +50°C

Model number	Layer	Voltage	Current	Bulb			Certificates	Weight	Color
				Spec	Standard	Parts no			
SR SRP	1	DC12V	0.488A	12V5W	T16x35 15S	5	-	0.28kg	● R-Red
		DC24V	0.310A	24V5W	T16x35 15S	6		0.28kg	
		AC110V	0.102A	12V5W	T16x35 15S	5		0.49kg	
		AC220V	0.051A	12V5W	T16x35 15S	5		0.49kg	
	2	DC12V	0.968A	12V5W	T16x35 15S	5		0.53kg	● R-Red ● G-Green
		DC24V	0.620A	24V5W	T16x35 15S	6		0.53kg	
		AC110V	0.146A	12V5W	T16x35 15S	5		0.76kg	
		AC220V	0.073A	12V5W	T16x35 15S	5		0.76kg	
	3	DC12V	1.453A	12V5W	T16x35 15S	5		0.71kg	● R-Red ● A-Amber ● G-Green
		DC24V	0.930A	24V5W	T16x35 15S	6		0.71kg	
		AC110V	0.191A	12V5W	T16x35 15S	5		1.03kg	
		AC220V	0.095A	12V5W	T16x35 15S	5		1.03kg	

Technical Diagram

(Units : mm)

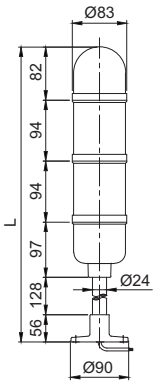
SR/ SRL

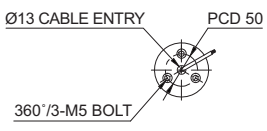


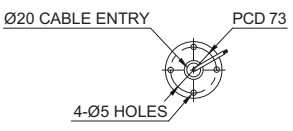
LAYER	L
1	162
2	256
3	350

SRP/ SRLP

LAYER	L
1	363
2	457
3	551







IP44 -30~+50°C NPN PNP RoHS

SRL

SRLP

SRL/ SRLP LED Steady/ Flashing Signal Towers

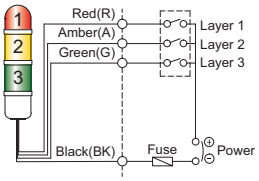
- Qlight's exclusive LED light distribution system with multi-tiered reflector spreads light evenly throughout the surface of the 94mm height special diffusing lens
- Fixed user selected color arrangement
- Flashing rate : 60-80 flashes/min(Built-in switch for selection between steady/ flashing mode)
- Ambient operating temperature : -30°C to +50°C
- Compliant with RoHS directive

Model number	Layer	Voltage	Current	Certificates	Weight	Color
SRL SRLP	1	DC12V	0.123A	-	0.23kg	● R-Red
		DC24V	0.094A		0.23kg	
		AC110V	0.062A		0.45kg	
		AC220V	0.031A		0.45kg	
	2	DC12V	0.246A		0.37kg	● R-Red ● G-Green
		DC24V	0.188A		0.37kg	
		AC110V	0.075A		0.70kg	
		AC220V	0.037A		0.70kg	
	3	DC12V	0.369A		0.53kg	● R-Red ● A-Amber ● G-Green
		DC24V	0.283A		0.53kg	
		AC110V	0.091A		0.89kg	
		AC220V	0.045A		0.89kg	

Wiring Instructions

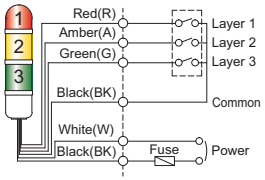
SR(P)/ SRL(P)-DC

EXTERNAL CONTACT



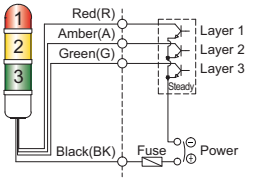
SR(P)/ SRL(P)-AC

EXTERNAL CONTACT

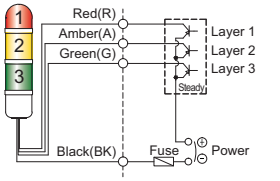


SRL(P)-DC

EXTERNAL TRANSISTOR-NPN



EXTERNAL TRANSISTOR-PNP



- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Signal line : UL1007 AWG22(0.3sq) 400mm
- DC type : Black output line is negative(-)

Customization

- 4 layers available upon request
- Customized color arrangement available

Ordering Specification

SRL	-	3	-	220	-	RAG
[Model number]		[Number of Tiers]		[Voltage]		[Color]
• SR • SRP • SRL • SRLP		• 1-1tier • 2-2tiers • 3-3tiers		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green

Please note for installation

- SRL/SRLP model wiring can be done with either external contacts or external transistors.
- In case of wiring with transistors, please select the proper transistor type : either NPN or PNP based on the source voltage setting.
- The SR/SRP type warning lights use light bulbs which do not allow the use of transistors to register the connection. Please use external contacts.

SJ series

Cubic Stackable Warning/ Signal Lights

IP44 | -20~+50°C | BUZZER | 90dB | NPN | PNP

SJ

SJP

Common Specifications(SJ/ SJL)

- Beautiful appearance from stacking 95×95mm cubed tower lights
- Multi signal transmission in space of 1 signal light
- Built-in buzzer available (Volume Max 90dB at 1m)
- Standard color
  1Layer - ● Red
  2Layers - ● Red ● Green
  3Layers - ● Red ● Yellow ● Green
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Protection rating : IP44
- Certificates : CE Compliant

SJ/ SJP Bulb Revolving Tower Warning/ Signal Lights

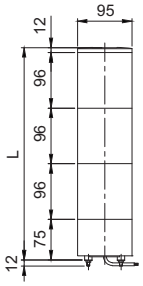
- Adopts a special power transmission system which minimizes noise and wear
- Available in customized color arrangements
- Revolving speed : 120-140RPM
- Ambient operation temperature : -20°C to +50°C

Model number	Layer	Voltage	Current	Bulb			Certificates	Weight	Color
				Spec	Standard	Parts no			
SJ SJP	1	DC12V	0.488A	12V5W	T16x35 15S	5	CE	0.65kg	● R-Red
		DC24V	0.310A	24V5W	T16x35 15S	6		0.65kg	
		AC110V	0.102A	12V5W	T16x35 15S	5	-	0.83kg	
		AC220V	0.051A	12V5W	T16x35 15S	5		0.83kg	
	2	DC12V	0.968A	12V5W	T16x35 15S	5	CE	0.89kg	● R-Red ● G-Green
		DC24V	0.620A	24V5W	T16x35 15S	6		0.89kg	
		AC110V	0.146A	12V5W	T16x35 15S	5	-	1.15kg	
		AC220V	0.073A	12V5W	T16x35 15S	5		1.15kg	
	3	DC12V	1.453A	12V5W	T16x35 15S	5	CE	1.18kg	● R-Red ● A-Amber ● G-Green
		DC24V	0.930A	24V5W	T16x35 15S	6		1.18kg	
		AC110V	0.191A	12V5W	T16x35 15S	5	-	1.28kg	
		AC220V	0.095A	12V5W	T16x35 15S	5		1.28kg	

Technical Diagram

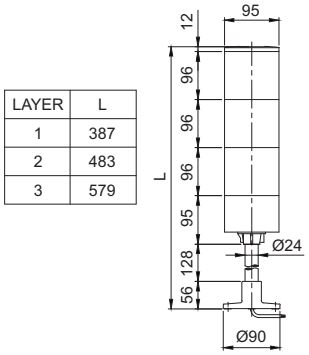
(Units : mm)

SJ/ SJL

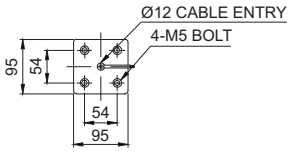


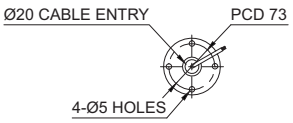
LAYER	L
1	183
2	279
3	375

SJP/ SJLP



LAYER	L
1	387
2	483
3	579





SJ series

Cube-shaped Stackable Warning/ Signal Lights

IP44 | -30~+50°C | BUZZER | 90dB | NPN | PNP | RoHS

SJL

SJLP

SJL/ SJLP LED Steady/ Flashing Tower Signal Lights

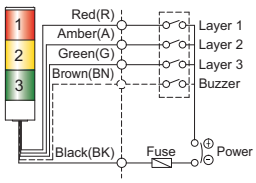
- Strong LED signal light emitted through the 96mm height diffusion lens
- Fixed lens colors
- Flashing rate : 60-80 flashes/min
- Ambient operation temperature : -30°C to +50°C
- Compliant with RoHS directive

Model number	Layer	Voltage	Current	Certificates	Weight	Color
SJL SJLP	1	DC12V	0.182A	-	0.63kg	● R-Red
		DC24V	0.163A		0.63kg	
		AC110V	0.062A		0.80kg	
		AC220V	0.031A		0.80kg	
	2	DC12V	0.364A		0.76kg	● R-Red ● G-Green
		DC24V	0.326A		0.76kg	
		AC110V	0.077A		1.03kg	
		AC220V	0.038A		1.03kg	
	3	DC12V	0.546A		1.01kg	● R-Red ● A-Amber ● G-Green
		DC24V	0.489A		1.01kg	
		AC110V	0.093A		1.24kg	
		AC220V	0.046A		1.24kg	

Wiring Instructions

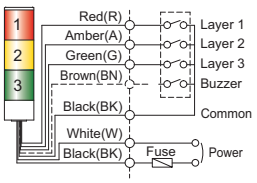
SJ(P)/ SJL(P)-DC

EXTERNAL CONTACT



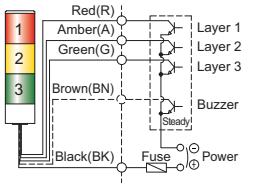
SJ(P)/ SJL(P)-AC

EXTERNAL CONTACT

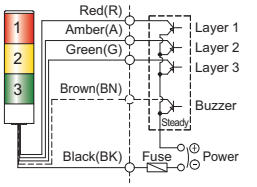


SJL(P)-DC

EXTERNAL TRANSISTOR-NPN



EXTERNAL TRANSISTOR-PNP



- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Signal line : UL1007 AWG22(0.3sq) 400mm
- DC type : Black output line is negative(-)

Customization

- 4 layers available upon request
- Lens colors arrangement except for standard
- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- Xenon lamp strobe type(model number : SJS/SJSP)

Ordering Specification

SJL	-	BZ	-	3	-	220	-	RAG
[Model number]		[Buzzer option]		[Layer]		[Voltage]		[Color]
• SJ • SJP • SJL • SJLP				• 1-1Layer • 2-2Layers • 3-3Layers		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green

Please note for installation

- SJL/ SJLP type can be wired with external contacts and transistor.
- Wiring to transistor, use the NPN transistor. Please wire properly based on technical diagram.
- SJ/ SJP used bulb can not be connected by using transistors. Please use the external contacts.

S125TL

Ø125mm Large-Sized Stackable Signal Light

IP44 | -30~+50℃ | NPN | PNP | RoHS

S125TL

S125TL model applied in a freeway toll section.

S125TL LED Steady/ Flashing Signal Tower

- Ø125mm large-sized stackable signal lights
- Large light emitting area and special light diffusing lens provides excellent long distance visibility
- Saves mounting space by stacking one, two, or three signal lenses
- Standard color arrangements
  1Layer - ● Red
  2Layers - ● Red ● Green
  3Layers - ● Red ● Yellow ● Green
- The reflector with multi-tiered surface diffuses light over a wide area for uniform signal transmission
- The user selected color arrangement will be fixed
- Built-in switch for selection between steady and flashing mode
- Flashing rate : 60-80 flashes/min
- Materials : Lens-AS, Body-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP44
- Compliant with RoHS directive

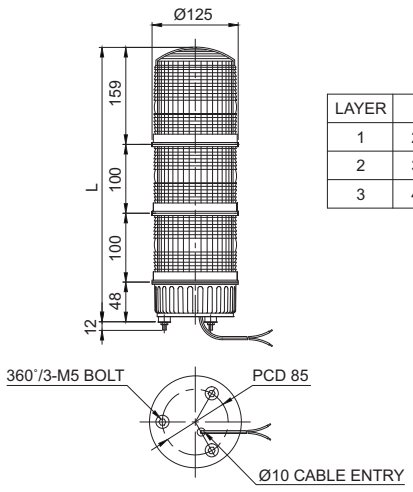
Specifications

Model number	Layer	Voltage	Current	Certificates	Weight	Color
S125TL	1	DC12V	0.300A	-	0.62kg	● R-Red
		DC24V	0.200A		0.62kg	
		AC110V	0.077A		0.84kg	
		AC220V	0.038A		0.84kg	
	2	DC12V	0.600A		0.88kg	● R-Red ● G-Green
		DC24V	0.400A		0.88kg	
		AC110V	0.106A		1.11kg	
		AC220V	0.053A		1.11kg	
	3	DC12V	0.900A		1.15kg	● R-Red ● A-Amber ● G-Green
		DC24V	0.600A		1.15kg	
		AC110V	0.140A		1.38kg	
		AC220V	0.070A		1.38kg	

Technical Diagram

(Units : mm)

S125TL



LAYER	L
1	207
2	307
3	407

Customization

- Customized color arrangements available
- User selected xenon strobe lamp type available upon request (Model number : S125TS)

S125TL

Ø125mm Large-Sized Stackable Signal Light

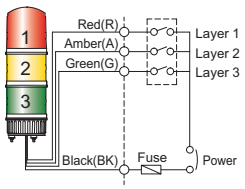
Please note for installation

- S125TL type can be wired with external contacts and transistors.
- Wiring to transistor, use the NPN transistor. Please wire properly based on technical diagram.
- S125TS which uses a xenon lamp can not be connected by using transistor Please use an external contact.

Wiring Instructions

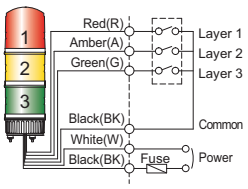
S125TL-DC

EXTERNAL CONTACT



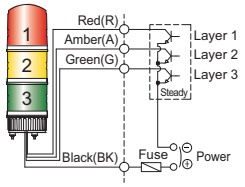
S125TL-AC

EXTERNAL CONTACT

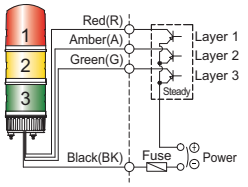


S125TL-DC

EXTERNAL TRANSISTOR-NPN



EXTERNAL TRANSISTOR-PNP



- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Signal line : UL1007 AWG22(0.3sq) 400mm
- DC type : Black output line is negative(-)

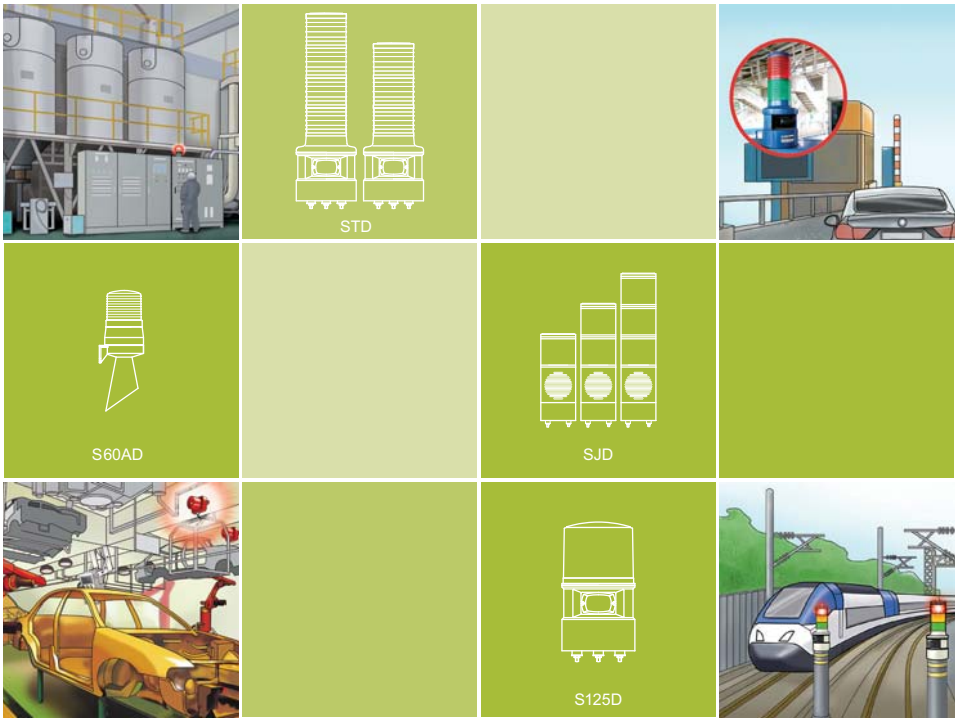
Ordering Specification

S125TL	-	3	-	24	-	RAG
[Model number]		[Layer]		[Voltage]		[Color]
• S125TL		• 1-1Layer • 2-2Layers • 3-3Layers		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green

CATALOGUE

Signal Lights & Electric Horns

INNOVATION IN ALARM & SIGNAL



References 80
Products specifications 82

Reference for Warning/ Signal Lights & Electric Horns

	Model number	S60AD	QWTD	QAD80H	QAD80BZ	QAD100H	QAD100BZ
	Voltage	DC12V, DC24V AC110V, AC220V	AC/DC12V, AC/DC24V AC110V-AC220V	DC12V-24V	DC12V, DC24V	DC12V-24V AC110V-220V	DC12V, DC24V AC110V-220V
Dimension (mm)	Diameter	Ø70	Ø70	Ø83	Ø83	Ø97	Ø97
	Height	233	154-318	198	198	215	218
	Depth	86	76	93	93	109	109
	Material	Lens-AS Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS
Lamp & Operation	Bulb Steady/Flashing	•					
	Bulb Revolving						
	LED Revolving						
	LED Steady/Flashing	•	•	•	•	•	•
	LED Strobe						
	LED Simulated revolving						
	xenon lamp strobe	•					
Sound & Volume	High Buzzer	Max 100dB at 1m			Max 105dB at 1m		Max 105dB at 1m
	5 Signal sounds		Max 85dB at 1m				
	Voice						
	30 signal sounds			Max 100dB at 1m		Max 100dB at 1m	
	31 signal sounds						
	MP3					Max 95dB at 1m	
	Mounting structure	Wall mount	Wall mount	Wall mount	Wall mount	Wall mount	Wall mount
	IP	IP54	IP54	IP65	IP65	IP65	IP65
	Certificates	CE	CE	-	-	-	-
	Customization	2 tones buzzer	2 tones buzzer, Color combinations except for standard	-	-	-	-
	transistor	-	NPN Type	NPN Type	-	NPN Type	-
	Page	P82	P84	P87	P87	P88	P88

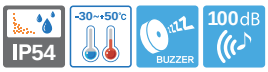
	Model number	QAD125H	QAD125BZ	QWCD35	QWCD50	SJD	
	Voltage	DC12V-24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V-DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V, AC220V	
Dimension (mm)	Diameter	Ø116	Ø116	136×179	168×222	95×95(Cubic)	
	Height	244	244	-	-	274-466	
	Depth	132	132	126	163	-	
	Material	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Horn-PC Housing-PC+ABS	Horn-PC Housing-PC+ABS	Lens-AS Housing-ABS	
Lamp & Operation	Bulb Steady/Flashing						
	Bulb Revolving					•	
	LED Revolving						
	LED Steady/Flashing	•	•			•	
	LED Strobe			•	•		
	LED Simulated revolving						
	xenon lamp strobe					•	
Sound & Volume	High Buzzer		Max 105dB at 1m				
	5 Signal sounds					Max 90dB at 1m	
	Voice					Max 80dB at 1m	
	30 signal sounds	Max 115dB at 1m					
	31 signal sounds			Max 115dB at 1m	Max 123dB at 1m		
	MP3	Max 100dB at 1m		Max 113dB at 1m	Max 118dB at 1m		
	Mounting structure	Wall mount	Wall mount	Wall mount	Wall mount	Self stand	
	IP	IP65	IP65	IP66	IP66	IP23	
	Certificates	-	-	CE, UL	CE, UL	-	
	Customization	-	-	External signal line	External signal line	Lens color expect for standard	
	transistor	NPN Type	-	NPN Type	NPN Type	NPN Type	
	Page	P89	P89	P91	P92	P93-94	

Reference for Warning/ Signal Lights & Electric Horns

Model number		STD	S100D	S125D	STNDL	STND100	STND125
Voltage		AC/DC12V, AC/DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
Dimension (mm)	Diameter	Ø80(Globe) Ø119(Body)	Ø101(Globe) Ø119(Body)	Ø115(Globe) Ø119(Body)	Ø80(Globe) Ø119(Body)	Ø101(Globe) Ø119(Body)	Ø115(Globe) Ø119(Body)
	Height	232-512	226	215	267-547	261	250
	Depth	-	-	-	-	-	-
Material		Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Lamp & Operation	Bulb Steady/Flashing	●			●	●	●
	Bulb Revolving		●	●			
	LED Revolving		●	●			
	LED Steady/Flashing	●	●	●	●	●	●
	LED Strobe						
	LED Simulated revolving						
	xenon lamp strobe		●	●			
Sound & Volume	High Buzzer						
	5 Signal sounds	Max 105dB at 1m	Max 105dB at 1m	Max 105dB at 1m			
	Voice	Max 95dB at 1m	Max 95dB at 1m	Max 95dB at 1m			
	30 signal sounds				Max 105dB at 1m	Max 105dB at 1m	Max 105dB at 1m
	31 signal sounds						
	MP3				Max 98dB at 1m	Max 98dB at 1m	Max 98dB at 1m
Mounting structure		Self stand	Self stand	Self stand	Self stand	Self stand	Self stand
IP		IP54	IP54	IP54	IP54	IP54	IP54
Certificates		CE	CE	CE	CE	CE, UL	CE
Customization		Customized lens height	-	-	Customized lens height	-	-
transistor		NPN Type	NPN Type	NPN Type	NPN Type	NPN Type	NPN Type
Page		P95	P97	P99	P102	P104	P105

S60AD series

Signal/ Warning Lights with High Volume Built-in Buzzer



S60AD series

Common Specifications(S60ADL/ S60ADS/ S60ADB)

- Ø60mm warning light with high volume built-in buzzer in a vertical configuration
- Cone-shaped horn helps diffuse sound to generate clear and distinctive sound signals
- Suitable for applications that require downward audible signals in elevated locations
- Buzzer sound volume (Max 100dB at 1m)
- Materials : Lens-AS, Body-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -30°C to +50°C
- Protection Rating : IP54
- Certificates : CE Compliant

S60ADL LED Steady/Flashing Signal Light

- LED reflector with multi-tiered design provides an even and clear illumination throughout the entire lens
- Selectable between steady and flashing mode
- Flashing rate : 60-80 flashes/min

Model number	Voltage	Current	Certificates	Weight	Color
S60ADL	DC12V	0.166A	CE DC24V only	0.17kg	R-Red, A-Amber, G-Green, B-Blue
	DC24V	0.125A		0.17kg	
	AC110V	0.043A		0.32kg	
	AC220V	0.022A		0.32kg	

S60ADS Xenon Lamp Strobe Signal Light

- Flashing rate : 60-80 flashes/min

Model number	Voltage	Current	Certificates	Weight	Color
S60ADS	DC12V	0.550A	CE DC24V only	0.29kg	R-Red, A-Amber, G-Green, B-Blue
	DC24V	0.266A		0.29kg	
	AC110V	0.088A		0.27kg	
	AC220V	0.044A		0.27kg	

S60ADB Bulb Steady/Flashing Signal Light

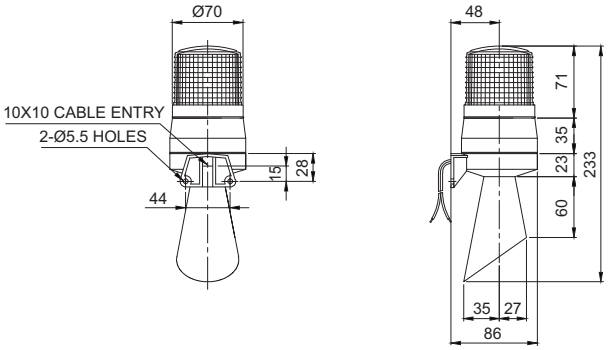
- Employs a special filament to prevent damage caused by possible voltage variations
- Selectable between steady and flashing mode
- Flashing rate : 60-80 flashes/min

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
S60ADB	DC12V	1.008A	12V10W	T16x35 15S	9	CE DC24V only	0.19kg	R-Red, A-Amber, G-Green, B-Blue
	DC24V	0.556A	24V10W	T16x35 15S	10		0.19kg	
	AC110V	0.127A	110V10W	T16x35 15S	12		0.18kg	
	AC220V	0.064A	220V10W	T16x35 15S	13		0.18kg	

Technical Diagram

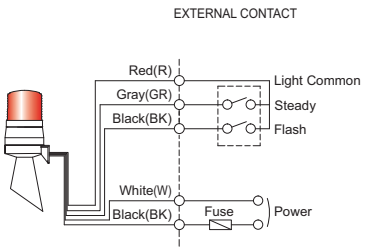
(Units : mm)

S60ADL/ S60ADS/ S60ADB

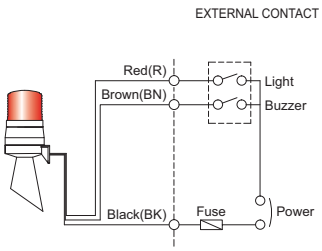


Wiring Instructions

S60ADB-DC/AC



S60ADL/ S60ADS-DC/AC



- S60ADB : Power line standard UL1015 AWG18(0.75sq)×2C 400mm
  Signal line standard UL1007 AWG22(0.3sq) 400mm
- S60ADL/ S60ADS : Signal line UL1007 AWG22(0.3sq) 400mm
- Product can be wired regardless of polarity

S60AD emits powerful buzzer sound through the cone type sound radiating structure.

Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- Strong buzzer type 105dB(model number : S60AD-HBZ)

Ordering Specification

S60ADL	-	220	-	R
[Model number]		[Voltage]		[Color]
• S60ADL • S60ADS • S60ADB		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

QWTD series

Wall Mount LED Signal Towers with Built-in Siren

IP54 | -30~+50°C | SPK | 85dB | NPN | RoHS

Wall mount signal tower with built-in audible alarm is now available!

- **WS (5 Warning sounds)**
- **WP (5 Special warning sounds)**
- **WM (5 Melodies)**
- **WA (5 Alarms)**

QWTD series

QWTD Speaker

QWTD embedded speaker design minimizes risk of contamination from debris while providing efficient sound output.

QWTD Ø70mm Wall Mount LED Steady/Flashing Signal Towers

- Wall mount model that minimizes the chance of damage from moving obstacles or personnel
- Superior side visibility with round-shaped lens
- 5 selectable sound pattern combinations(5 warning sounds, 5 special warning sounds, 5 melodies, 5 alarms)
- Selectable between steady/flashing mode with proper wire arrangement
- Standard color arrangements
  1 Layer : ●Red
  2 Layers : ●Red ●Green
  3 Layers : ●Red ●Amber ●Green
  4 Layers : ●Red ●Amber ●Green ●Blue
  5 Layers : ●Red ●Amber ●Green ●Blue ●Clear White
- Available for customized color arrangements
- Built-in siren sound volume (Max 85dB at 1m)
- Materials : Lens-PC, Cover-ABS, Case-ABS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP54
- Certificates : CE Compliant
- Compliant with RoHS directive

Specifications

Model number	Layer	Voltage	Current	Certificates	Weight	Color
QWTDL Steady QWTDLF Steady/ Flashing	1	AC/DC12V	0.065A	CE DC Only	0.14kg	● R-Red
		AC/DC24V	0.050A		0.14kg	
		AC110V-220V	Max 0.025A		0.27kg	
	2	AC/DC12V	0.130A		0.18kg	● R-Red ● G-Green
		AC/DC24V	0.100A		0.18kg	
		AC110V-220V	Max 0.050A		0.32kg	
	3	AC/DC12V	0.195A		0.23kg	● R-Red ● A-Amber ● G-Green
		AC/DC24V	0.150A		0.23kg	
		AC110V-220V	Max 0.075A		0.36kg	
	4	AC/DC12V	0.260A		0.27kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		AC/DC24V	0.200A		0.27kg	
		AC110V-220V	Max 0.100A		0.41kg	
	5	AC/DC12V	0.325A		0.32kg	● R-Red ● A-Amber ● G-Green ● B-Blue ● W-White
		AC/DC24V	0.250A		0.32kg	
		AC110V-220V	Max 0.125A		0.45kg	

QWTD-WS	5 Pre-Recorded Warning Sounds
QWTD-WP	5 Pre-Recorded Special Warning Sounds
QWTD-WM	5 Pre-Recorded Melodies
QWTD-WA	5 pre-Recorded Alarms

※ AC type model has a free-voltage range of 100V-240V.
※ Please refer to page 136 for detailed information about selectable sound patterns.

Signal/Audible Line Power Consumption (per each layer)

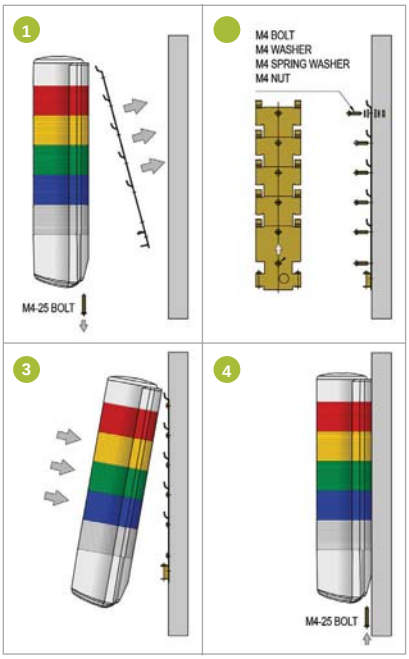
Voltage Rating	AC/DC12V	AC/DC24V	AC110V-220V
Signal Line Power Current	0.040A	0.040A	Max 0.024A
Audible Line Power Current	0.300A	0.160A	Max 0.031A

※ You can even rearrange the pre-assembled LED color arrangements after installation.

QWTD series

Wall Mount LED Signal Towers with Built-in Siren

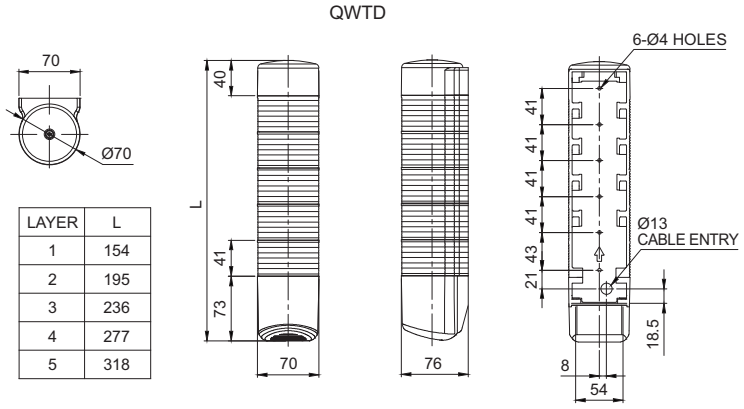
How to mount



1. Dismantle body and mount by loosening two M4 bolts at the bottom of the lamp
2. Put the mounting bracket on the mounting hole
3. Hang the lamp on the mount
4. Fasten two M4 bolts at the bottom of the lamp after completing installation on the mount

Technical Diagram

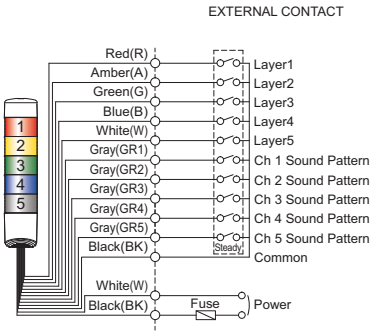
(Units : mm)



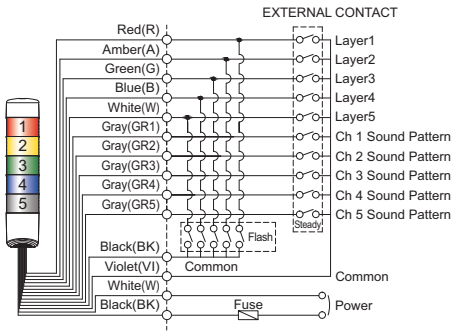
LAYER	L
1	154
2	195
3	236
4	277
5	318

Wiring Instructions

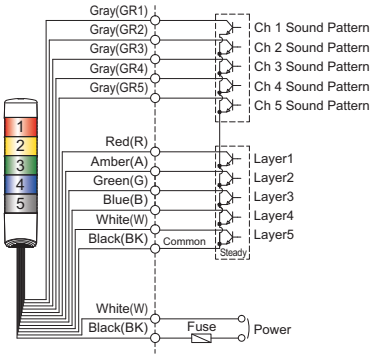
QWTDL-DC/AC (Steady)



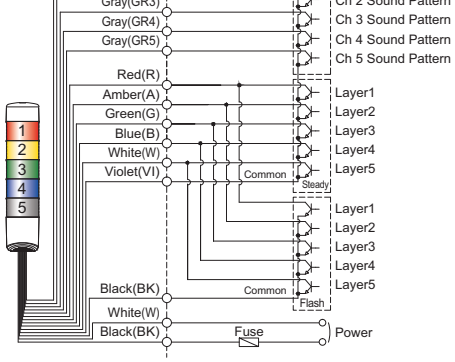
QWTDLF-DC/AC (Steady/Flashing)



QWTDL-DC/AC (Steady)



QWTDLF-DC/AC (Steady/Flashing)



- Wiring both external power line and transistor
- QWTD allows steady/flash mode by wiring
- External power line standard, UL1015 AWG18(0.75sq)×2C 400mm
- Signal line standard, UL1007 AWG22(0.3sq) 400mm
- Product can be wired regardless of polarity

Customization

- Special color combinations

Ordering Specification

QWTDL	-	WS	-	3	-	110/220	-	RAG
[Model number]		[Sounds]		[Layers]		[Voltage]		[Color]
• QWTDL • QWTDLF		• WS-Warning sound • WP-Special warning sound • WM-Melody • WA-Alarm		• 1-1Layer • 2-2Layers • 3-3Layers • 4-4Layers • 5-5Layers		• 12-DC12V • 24-DC24V • 110/220 -AC110V-220V		• R-Red • A-Amber • G-Green • B-Blue • W-White

Wall Mount Dome Type Signal Light with Electrical Horn

Siren Buzzer 105dB, Electric Horn 100-115dB

- 6 Bit input, 5 sound tones for each group
- Binary input 30 sound tones output
  SD Card(MP3) support

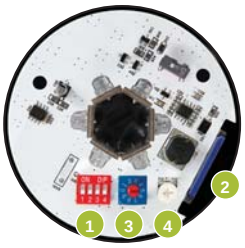
• Sound Tone Selection & Volume Control

QAD series are the combination of dome type signal lights and electric horn that allow sound tone selection and volume control through a built-in control panel.

QAD series (external sound product) can the support MP3 format through SD Card. (QAD100H/ QAD125H)

Multi-functional Product

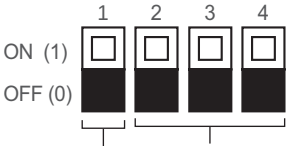
• How to Setup



1. Sound setup switch
2. SD Card for MP3 play
3. Play mode set up switch
4. Volume

• Sound Setup Switch

Built-in sound and user-defined sound is toggled by using the sound setup switch '1'.



Group Choice in Bit Input Mode
001 : WS (5 Warning sounds)
010 : WP
(5 special warning sounds 1st group)
011 : WM (5 Melodies)
100 : WA (5 Alarms)
101 : WO
(5 special warning sounds 2nd group)
110 : WN
(5 special warning sounds 3rd group)

Sound Selection
0 : Built-in sound
1 : SD Card(MP3)

- Built-in sounds(5WS, 5WP, 5WM, 5WA, 5WO and 5WN)
- Support SD Card(MP3)
- Binary Input : 30Ch
- Bit input : 5Ch(6 groups)
- Support MP3 format through SD Card
- Detailed instructions for multi-functional products are shown on page 140

Common Specifications(QAD80/ QAD100/ QAD125)

- Combination of warning light and horn allow for both visual and audible signal transmission at once
- Flashing rate : 60-80 flashes/min(Built-in Steady-Flash selection switch)
- Appropriate sound tones can be chosen depending on the various working environment among various available sound tones
- Sound tone selector and volume controller in front of the device allows for convenient use
- SD Card type allows user defined sound tone
- Built-in 30 sound tones, Support Binary and Bit input modes
- Bit input mode consists of 5 sound types with 6 groups. Choose one of the groups to play 5 sounds.(MP3 does not support group)
- MP3 support(QAD100H/ QAD125H)
- Materials : Lens - PC, Housing - ABS
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP65
- Compliant with RoHS directive

30 Built-in sounds

Multi-functional product has built-in 30 sound tones

Sound	Category	Ch	Sound Tone
WS	5 warning sounds	Ch1	Fire.A-ANG
		Ch2	Emergency WA-U(Yelp)
		Ch3	Ambulance PI-PO(Hi-low)
		Ch4	Machinery Fault
		Ch5	High Expansion
WP	5 special warning sounds (1st group)	Ch1	Fire.A-ANG
		Ch2	Abandon Alarm
		Ch3	Machinery Fault
		Ch4	High Expansion
		Ch5	7 Short PI. / 1 Long
WM	5 melodies	Ch1	Sweet Home
		Ch2	For Elise
		Ch3	Cuckoo's Waltz
		Ch4	Piano Sonata
		Ch5	Turkish March

Sound	Category	Ch	Sound Tone
WA	5 alarms	Ch1	Beep Intermittent
		Ch2	Door Chime
		Ch3	Phone Ring
		Ch4	PI.PI.PI Short
		Ch5	Tripping Beat
WO	5 special warning sounds (2nd group)	Ch1	Rel rel rel
		Ch2	Slow Ambulance PI-PO
		Ch3	Wye yong Wye yong
		Ch4	Phone ring 2
		Ch5	Fire.A-ANG
WN	5 special warning sounds (3rd group)	Ch1	Oit Oit
		Ch2	Pi o Pi o
		Ch3	Slow Di o Di o
		Ch4	Li long Li ling
		Ch5	911 Siren

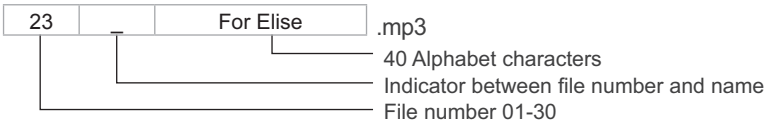
User-defined sound (MP3)

User-defined sound(MP3) type

Customer can create a playlist and grouping conveniently through PC. Product supports up to 32Gbyte. SD Card is an optional item.

*SD Card needs to be purchased.

MP3 file naming



QAD series

Signal/ LED Warning Lights with High Volume Built-in Buzzer

IP65 | -30~+50°C | HORN 100dB | BUZZER 105dB | NPN | RoHS

- **6 Bit input, 5 sound tones for each group**
- **Binary input 30 sound tones output**

QAD80 series

QAD80 does not support SD Card.

QAD series buzzer and electric sound is rich and clear because the RESONANCE CHAMBER amplifies the sound.

Do not supply power into the signal line. Product may be damaged as a result

- Once powering on, signal light will work. However, the speaker will require additional wiring.

QAD80H Wall Mount Type LED Steady/ Flash & Electric Horn

• Built-in sound

Model number	Voltage	Current	Sound Pattern and volume	Certificates	Weight	Color
QAD80H	DC12V-24V	Max 0.640A	• Bit Input : 5Ch • Binary Input: 30Ch • Warning sounds : Max 100dB	-	0.70kg	• R-Red • A-Amber • G-Green • B-Blue

※ Operating range for DC model : DC10V-30V

QAD80BZ Wall Mount Type LED Steady/ Flash & Strong Buzzer

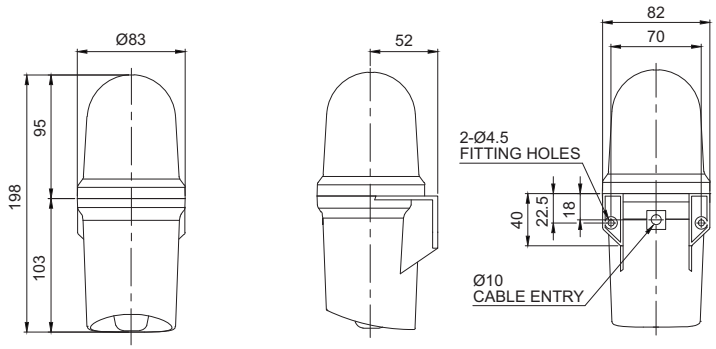
• Built-in strong buzzer

Model number	Voltage	Current	Sound Pattern and volume	Certificates	Weight	Color
QAD80BZ	DC12V	0.500A	• Buzzer Volume : Max 105dB	-	0.75kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.270A			0.75kg	

Technical Diagram

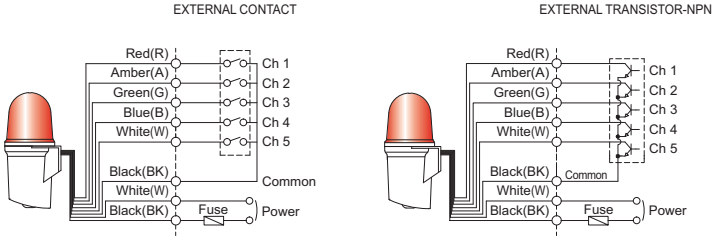
(Units : mm)

QAD80H/ QAD80BZ



Wiring Instructions

QAD80H-DC



- External power line standard, UL1015 AWG18(0.75sq)×2C 400mm
- Signal line standard, UL1007 AWG22(0.3sq) 400mm
- Product can be wired regardless of polarity
- In case of 6 Bits input, 5 sound tones can be played. For Binary input, 30 sound tones can be played

※ Detailed instructions for multi-functional products are shown on page 140. (Wiring Instructions substitutes for channel selection switch)

Ordering Specification

QAD80H	-	12/24	-	R
[Model number]		[Voltage]		[Color]
• QAD80H		• 12/24-DC12V-24V		• R-Red • A-Amber • G-Green • B-Blue
• QAD80BZ		• 12-DC12V • 24-DC24V		

QAD series

Signal/ LED Warning Lights with High Volume Built-in Buzzer

IP65 | -30~+50°C | HORN 100dB | BUZZER 105dB | SD mp3 95dB | NPN | RoHS

- **6 Bit input, 5 sound tones for each group**
- **Binary input 30 sound tones output SD Card(MP3) support**

QAD100 series

QAD series buzzer and electric sound is rich and clear because the RESONANCE CHAMBER amplifies the sound.

Do not supply power into the signal line. Product may be damaged as a result

- Once powering on, signal light will work. However, the speaker will require additional wiring.

QAD100H Wall Mount Type LED Steady/ Flash & Electric Horn

• Built-in sound/ MP3

Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
QAD100H	DC12V-24V	Max 1.055A	• Bit Input : 5Ch • Binary Input : 30Ch • Warning : Max 100dB • MP3 : Max 95dB	-	0.92kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	AC110V-220V	Max 0.360A			0.94kg	

※ DC type model has a free-voltage range of 10V-30V.
※ AC type model has a free-voltage range of 100V-240V.

QAD100BZ Wall Mount Type LED Steady/ Flash & Strong Buzzer

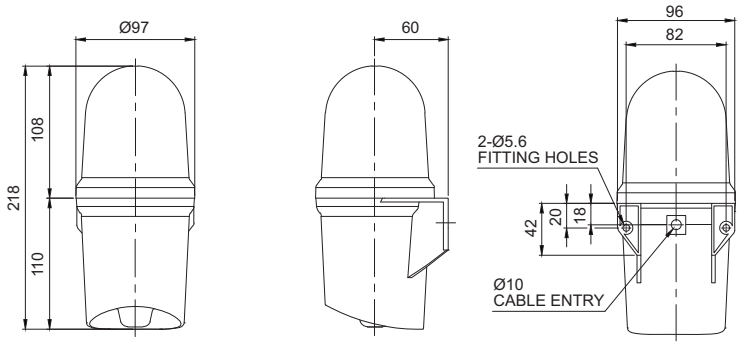
• Built-in strong buzzer

Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
QAD100BZ	DC12V	0.550A	• Buzzer Volume : Max 105dB	-	0.98kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.300A				
	AC110V-220V	Max 0.100A			1.01kg	

※ AC type model has a free-voltage range of 100V-240V.

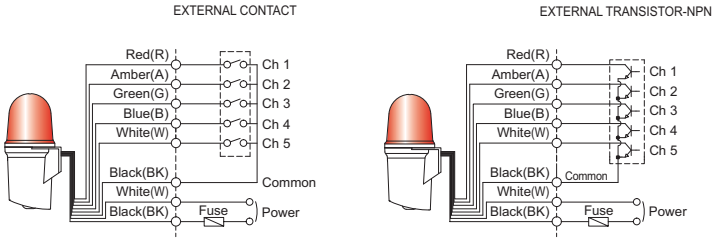
Technical Diagram (Units : mm)

QAD100H/ QAD100BZ



Wiring Instructions

QAD100H-DC/AC



- External power line standard, UL1015 AWG18(0.75sq)×2C 400mm
- Signal line standard, UL1007 AWG22(0.3sq) 400mm
- Product can be wired regardless of polarity
- In case of 6 Bits input, 5 sound tones can be played. For Binary input, 30 sound tones can be played

※ Detailed instructions for multi-functional products are shown on page 140. (Wiring Instructions substitutes for channel selection switch)

Ordering Specification

QAD100H	-	110/220	-	R
[Model number]		[Voltage]		[Color]
• QAD100H • QAD125H		• 12/24-DC12V-24V • 110/220-AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue

QAD series

Signal/ LED Warning Lights with High Volume Built-in Buzzer

IP65 | -30~+50°C | HORN 115dB | BUZZER 105dB | SD mp3 100dB | NPN | RoHS

- **6 Bit input, 5 sound tones for each group**
- **Binary input 30 sound tones output SD Card(MP3) support**

QAD125 series

QAD series buzzer and electric sound is rich and clear because the RESONANCE CHAMBER amplifies the sound.

Do not supply power into the signal line. Product may be damaged as a result

- Once powering on, signal light will work. However, the speaker will require additional wiring.

QAD125H Wall Mount Type LED Steady/ Flash & Electric Horn

• Built-in sound/MP3

Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
QAD125H	DC12V-24V	Max 1.055A	• Bit Input : 5Ch • Binary Input : 30Ch • Warning : Max 115dB • MP3 : Max 100dB	-	1.12kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	AC110V-220V	Max 0.360A			1.14kg	

※ DC type model has a free-voltage range of 10V-30V.
※ AC type model has a free-voltage range of 100V-240V.

QAD125BZ Wall Mount Type LED Steady/ Flash & Strong Buzzer

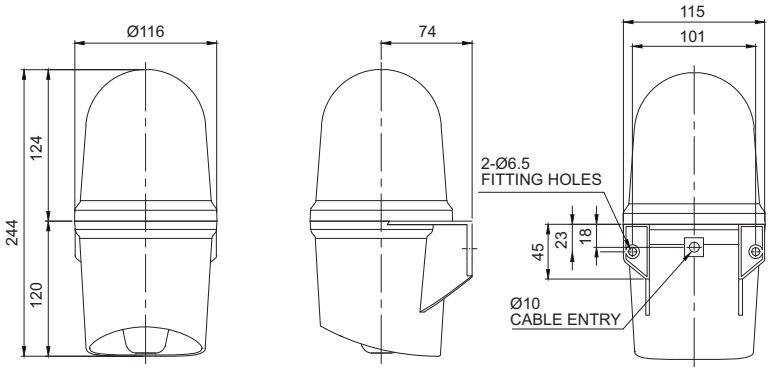
• Built-in strong buzzer

Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
QAD125BZ	DC12V	0.550A	• Buzzer Volume : Max 105dB	-	1.22kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	DC24V	0.300A				
	AC110V-220V	Max 0.100A			1.27kg	

※ AC type model has a free-voltage range of 100V-240V.

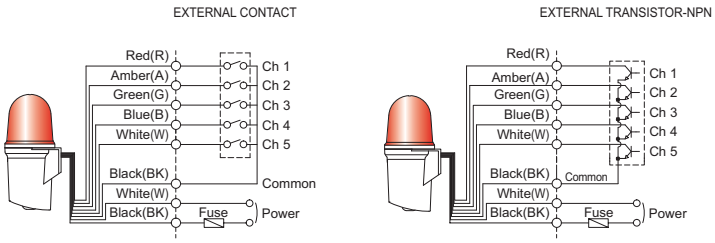
Technical Diagram (Units : mm)

QAD125H/ QAD125BZ



Wiring Instructions

QAD125H-DC/AC



- External power line standard, UL1015 AWG18(0.75sq)×2C 400mm
- Signal line standard, UL1007 AWG22(0.3sq) 400mm
- Product can be wired regardless of polarity
- In case of 6 Bits input, 5 sound tones can be played. For Binary input, 30 sound tones can be played

※ Detailed instructions for multi-functional products are shown on page 140.
(Wiring Instructions substitutes for channel selection switch)

Ordering Specification

QAD125BZ	-	24	-	R
[Model number]		[Voltage]		[Color]
• QAD100BZ • QAD125BZ		• 12-DC12V • 24-DC24V • 110/220-AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue

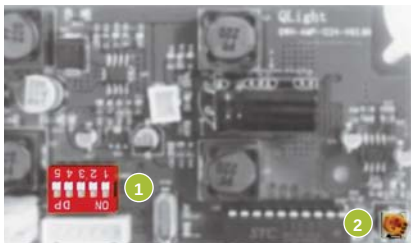
A new concept of using the horn cover as a light globe

QWCD series is a patented product with an integrated horn and light globe.
(Patent registration : 10-1452447 horn having a light emitting part)

QWCD series	
QWCD35	Built-in standard sound
QWCD35SD	MP3(SD Card)
QWCD50	Built-in standard sound, large output sound
QWCD50SD	SD Card(MP3). Large output sound

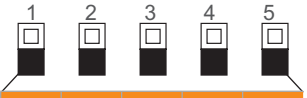
- By using the horn cover as a light globe, the size of the product has been reduced significantly
- The color of light can be selected from red, yellow, green, or blue
- Product has two models : the basic model with 31 built-in sounds, and an external sound (MP3) type model
- Includes seven different playback functions; one function is the continuous playback function which provides constant message notification
- There are 31 built-in sounds that can be played in various environments, and supports a Binary input method
- You can save and play up to 31 mp3 files using a external SD Card
- Can easily set up the sounds using a PC
- By making the horn cover with polycarbonate (PC) material, The product has excellent durability and weather resistance
- Can be used for heavy-duty, ship, or outdoor use which requires waterproof, dustproof structure (IP66)

Built-in sound type



1. Sound selection switch
2. Volume

The input method of built-in sound type

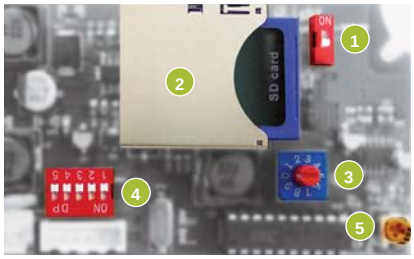


No.	1	2	3	4	5
0	0	0	0	0	0
1	0	0	0	0	1
2	0	0	0	1	0
:	:	:	:	:	:
31	1	1	1	1	1

Built-in sound type model supports Binary input mode which provides a selection of 31 different input combinations for five kinds of sounds.

You can only select 2 numbers with 1 switch; "0", "1". With 5 switches you can have 31 combinations. Selecting one sound from 5 switches is the Binary input method.

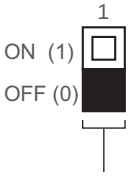
SD Card(MP3) type



1. Sound setting switch
2. MP3 playable SD Card
3. Play mode setting switch
4. Sound select switch
5. Volume

The sound selection method of SD Card type

Can easily select built-in sound or external sound(MP3) by using the sound selection switch.



The sound selection
0 : Select built-in sound
1 : Select SD Card

- 31 built-in special warning sounds
- Supports SD Card (MP3)
- Binary Input : 31Ch
- Bit Input : 5Ch (SD Card only)
- A multifunctional product that can play MP3 files using an SD Card
- Please refer to page 138 for detailed settings
- Built-in sound is set to #1 as default

QWCD series

LED Strobe Signal Light and Electric Horn Combinations

- **Qlight's exclusive innovative design - the horn cover emits light!**
- **Combination of 31 sound options built in and SD Card(MP3) option**

QWCD35 series

QWCD35 model applied in an automobile production plant environment.

Common Specifications(QWCD35/ QWCD35SD/ QWCD50/ QWCD50SD)

- Easy device customization with built in sound selection function, volume adjustment function and an SD Card slot for user inputted tones
- 31 available tones that can be selected for a variety of environments
- The user can select their own tones by inputting the MP3 file directly into the SD Card
- 31 pre-recorded tones available via binary input
- Suitable for use in environments that require a tight seal and superior dust protection rated IP66
- Flashing rate : 60-80 flashes/min(steady/flashing mode selection available in built in switch)
- Materials : Horn-PC, Body-PC+ABS
- Ambient operating temperature : -50°C to +60°C(Standard type)
  -20°C to +50°C(SD Card type)
- Protection Rating : IP66
- Certificates : CE Compliant, UL Listed
- Compliant with RoHS directive

QWCD35 LED Strobe Signal Light and Electric Horn Combination

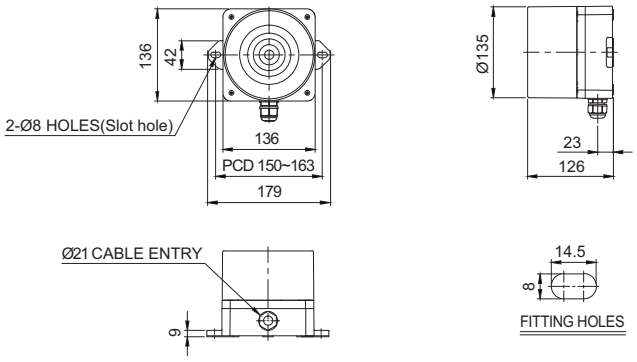
Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
QWCD35 Built-in standard sound	DC12V-24V	Max 1.30A	• Bit Input : 5Ch (SD Card) • Binary Input : 31Ch • Warning Sounds: 115dB • MP3 Messages : 113dB	CE DC Only	1.10kg	• R-Red • A-Amber • G-Green • B-Blue
QWCD35SD MP3	AC110V-220V	Max 0.31A		UL DC Only	1.15kg	

※ DC type model has a free-voltage range of 10V-30V.
※ AC type model has a free-voltage range of 100V-240V.

Technical Diagram

(Units : mm)

QWCD35



Customization

- External signal line available for users to connect their own sound input (Model number : -LC)

Ordering Specification

QWCD35	-	110/220	-	R	-	LC
[Model number]		[Voltage]		[Color]		[sound selection]
• QWCD35 • QWCD35SD		• 12/24 -DC12V-24V • 110/220 -AC110V-220V		• R-Red • A-Amber • G-Green • B-Blue		• Standard -Built-in switch • LC -External contact

QWCD series

LED Strobe Signal Light and Electric Horn Combinations

- Qlight's exclusive innovative design - the horn cover emits light!
- Combination of 31 sound options built in and SD Card(MP3) option

QWCD50 series

QWCD50 LED Strobe Light and Electric Horn Combination

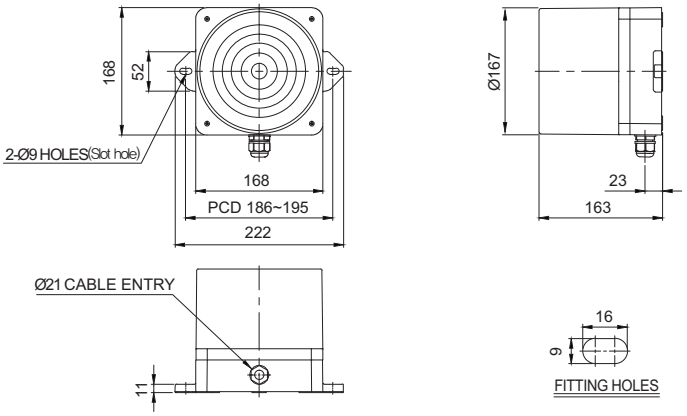
Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
QWCD50 Built-in standard sound	DC12V	6.4A	• Bit Input : 5Ch (SD Card) • Binary Input : 31Ch • Warning Sounds: 123dB • MP3 Messages : 118dB	CE DC Only	2.7kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	3.2A		UL DC Only	2.7kg	
QWCD50SD MP3	AC110V-220V	Max 0.600A			3.0kg	

※ AC type model has a free-voltage range of 100V-240V.

Technical Diagram

(Units : mm)

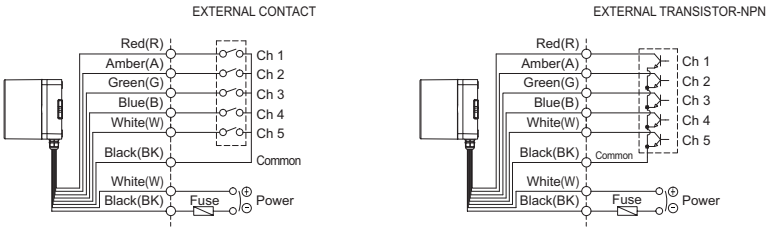
QWCD50



Wiring Instructions

- Standard specification : Use internal switches
- Customization : Use external contact

QWCD-DC/AC



- Wiring to external contact and transistor
- Wiring to transistor, use the NPN transistor
- Power line standard UL1015 AWG18(0.75sq)×2C 400mm
- Signal line standard UL1007 AWG22(0.3sq) 400mm
- DC type : Black output line is negative(-)
- Channel selection : Bit input, 5 sound tones for each group
- Binary input 31 sound tones output

* Please refer to Page 138 for set of channel input.
(If wiring is changed by channel selection switch)

Customization

- External sound selection line(Model number : -LC)

Ordering Specification

QWCD50	-	110/220	-	R	-	LC
[Model number]		[Voltage]		[Color]		[sound selection]
• QWCD50 • QWCD50SD		• 12-DC12V • 24-DC24V • 110/220 -AC110V-220V		• R-Red • A-Amber • G-Green • B-Blue		• Standard -Built-in switch • LC -External contact

SJD series

Stackable Cube Tower Lights with Built-in Alarm

IP23 | -20~+50°C | HORN | 90dB | NPN

SJD

Common Specifications(SJD/ SJDL/ SJDS)

- Cube-shaped(95×95mm) stacked tower lights and audible alarm combinations
- Lamp can be selectable among bulb revolving, LED steady/flashing, xenon strobe depending on installation environment
- 5 Warning sounds, 5 Melodies, 5 Alarms, and 5 Customizable sounds available
- WV type : Input audio message needs to be provided to us by the customer prior to manufacturing
- Multiple stacked light segments conserves space
- Standard color arrangements are as below :
  1 Layer : ● R-Red
  2 Layers : ● R-Red ● G-Green
  3 Layers : ● R-Red ● A-Amber ● G-Green
- Materials : Lens-AS, Body-ABS, Reflector-Heat resistant ABS
- Protection rating : IP23

SJD Bulb Revolving Cube Tower Light

- Employs a special power transmission system that minimizes noise and wear
- Available in customized color arrangements
- Revolving speed : 120-140RPM
- Ambient operating temperature : -20°C to +50°C

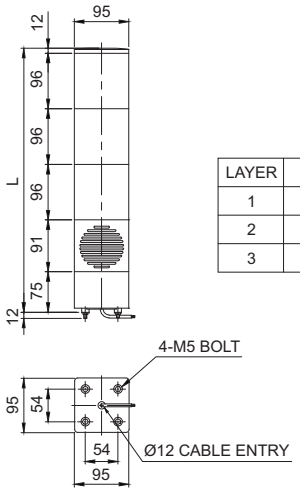
Model number	layer	Voltage	Current	Bulb			Sound Pattern and Volume	Certificates	Weight	Color
				Spec	Standard	Parts no				
SJD	1	DC12V	0.751A	12V5W	T16x35 15S	5	• WS-5 warning sounds : 90dB • WM-5 Melodies : 90dB • WA-5 Alarms : 80dB • WV-5 customizable sounds : 80dB	-	DC-1.41kg AC-1.79kg	● R-Red
		DC24V	0.521A	24V5W	T16x35 15S	6				
		AC110V	0.164A	12V5W	T16x35 15S	5				
		AC220V	0.082A	12V5W	T16x35 15S	5				
	2	DC12V	1.235A	12V5W	T16x35 15S	5			DC-1.65kg AC-2.04kg	● R-Red ● G-Green
		DC24V	0.831A	24V5W	T16x35 15S	6				
		AC110V	0.208A	12V5W	T16x35 15S	5				
		AC220V	0.104A	12V5W	T16x35 15S	5				
	3	DC12V	1.720A	12V5W	T16x35 15S	5			DC-1.90kg AC-2.29kg	● R-Red ● A-Amber ● G-Green
		DC24V	1.141A	24V5W	T16x35 15S	6				
		AC110V	0.191A	12V5W	T16x35 15S	5				
		AC220V	0.126A	12V5W	T16x35 15S	5				

※ Please refer to page 136 for detailed information about selectable sound patterns.

Technical Diagram

(Units : mm)

SJD/ SJDL/ SJDS



LAYER	L
1	274
2	370
3	466

SJD series

Stackable Cube Tower Lights with Built-in Alarm

IP23 | -30~+50°C | HORN | 90dB | NPN

A variety of pre-recorded sound patterns - warning sounds, melodies and alarms

SJDL/ SJDS

Do not apply a voltage to each signal line. It may cause damage to the product

- SJDL type can be wiring with external contact and transistor.
- Wiring to transistor, use the NPN transistor. Please wire properly based on technical diagram.
- Bulb type SJD and xenon lamp type can not be wiring with transistor.
- Please use external contact.

Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- External signal line standard : UL1007 AWG22(0.3sq) 400mm
- DC type : Black output line is negative(-)

Customization

- Customized color arrangements available

SJDL LED Steady/Flashing Tower Light

- Wide diffusion lens of 96mm height provides a powerful LED signal light
- Built-in switches for steady/flashing mode
- Flashing rate : 60-80 flashes/min
- Ambient operating temperature : -30°C to +50°C

Model number	Layer	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
SJDL	1	DC12V	0.337A	• WS -5 Warning sounds : 90dB • WM -5 Melodies : 90dB • WA -5 Alarms : 85dB • WV - 5 Customizable sounds : 80dB	-	DC-1.63kg AC-1.63kg	● R-Red
		DC24V	0.326A				
		AC110V	0.124A				
		AC220V	0.062A				
	2	DC12V	0.488A			DC-1.80kg AC-1.80kg	● R-Red ● G-Green
		DC24V	0.442A				
		AC110V	0.140A				
		AC220V	0.070A				
	3	DC12V	0.600A			DC-2.04kg AC-2.04kg	● R-Red ● A-Amber ● G-Green
		DC24V	0.557A				
		AC110V	0.155A				
		AC220V	0.077A				

※ Please refer to page 136 for detailed information about selectable sound patterns.

SJDS Xenon Lamp Strobe Tower Light

- Diffusion strong light offers long distance transmission of signal light
- Lamp connector fastening structure allows for convenient lamp replacement
- Flashing rate : 60-80 flashes/min
- Ambient operating temperature : -30°C to +50°C

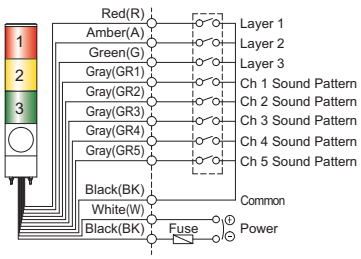
Model number	Layer	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
SJDS	1	DC12V	0.988A	• WS -5 Warning sounds : 90dB • WM -5 Melodies : 90dB • WA -5 Alarms : 85dB • WV - 5 Customizable sounds : 80dB	-	DC-1.25kg AC-1.66kg	● R-Red
		DC24V	0.600A				
		AC110V	0.195A				
		AC220V	0.137A				
	2	DC12V	1.171A			DC-1.45kg AC-1.84kg	● R-Red ● G-Green
		DC24V	0.988A				
		AC110V	0.328A				
		AC220V	0.244A				
	3	DC12V	2.433A			DC-1.64kg AC-2.03kg	● R-Red ● A-Amber ● G-Green
		DC24V	1.377A				
		AC110V	0.462A				
		AC220V	0.351A				

※ Please refer to page 136 for detailed information about selectable sound patterns.

Wiring Instructions

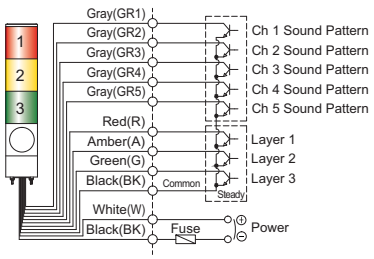
SJD/ SJDL/ SJDS-DC/AC

EXTERNAL CONTACT



SJDL-DC/AC

EXTERNAL TRANSISTOR-NPN



Ordering Specification

SJD	-	WA	-	3	-	220	-	RAG
[Model number]		[Sound selection]		[Layer]		[Voltage]		[Color]
• SJD • SJDL • SJDS		• WS-Warning • WM-Melody • WA-Alarm • WV-Customizable sound		• 1-1Layer • 2-2Layers • 3-3Layers		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		● R-Red ● A-Amber ● G-Green

STD series

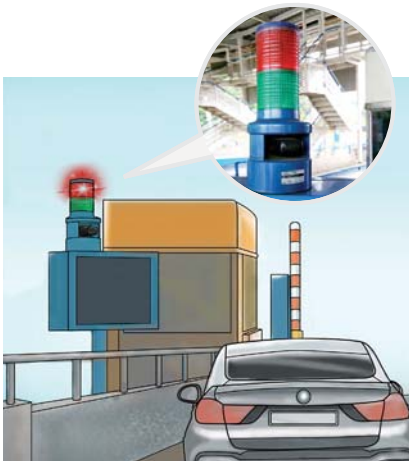
LED Steady/Flashing Tower light and Electric Horn Combinations

IP54 | -30~+50°C | HORN | 105dB | NPN | RoHS

A variety of pre-recorded sound patterns-warning sounds, melodies, and alarms

STD series

- STD series offers pre-recorded sounds
- For the WV(5 Customizable sounds) type, input audio messages needs to be provided by the customer prior to manufacturing



STDL is installed at Hi-Pass entrance on the expressway.

STDL LED Steady/Flashing Tower Light & Electric Horn

- LED steady/flashing mode
- Available in customized color arrangements
- Flashing rate : 60-80 flashes/min
- Ø80mm stackable light and electric horn combination provides both audible and visual signaling capability in one unit
- Can select the proper tone from a variety of built-in sound options to fit your application needs
- WV type : Input audio messages needs to be provided by the customer prior to manufacturing
- Multiple stacked light segments conserve space
- Standard color arrangements
  1 Layer : ● R-Red
  2 Layers : ● R-Red ● G-Green
  3 Layers : ● R-Red ● A-Amber ● G-Green
  4 Layers : ● R-Red ● A-Amber ● G-Green ● B-Blue
  5 Layers : ● R-Red ● A-Amber ● G-Green ● B-Blue ● W-Clear White
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -30°C to +50°C
- Protection ratings : IP54
- Certificates : CE Compliant
- Compliant with RoHS directive

Specifications

Model number	Layer	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
STDL Steady STDLF Steady/ Flashing	1	AC/DC12V	0.380A	• WS -5 Warning sounds : 105dB • WM -5 Melodies : 105dB • WA -5 Alarms : 103dB • WV -5 Customizable sounds : 95dB	CE DC24V Only	DC-0.80kg AC-1.39kg	● R-Red
		AC/DC24V	0.330A				
		AC110V	0.115A				
		AC220V	0.058A				
	2	AC/DC12V	0.490A			DC-0.91kg AC-1.36kg	● R-Red ● G-Green
		AC/DC24V	0.440A				
		AC110V	0.121A				
		AC220V	0.061A				
	3	AC/DC12V	0.600A			DC-1.05kg AC-1.49kg	● R-Red ● A-Amber ● G-Green
		AC/DC24V	0.550A				
		AC110V	0.127A				
		AC220V	0.064A				
	4	AC/DC12V	0.710A			DC-1.16kg AC-1.61kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		AC/DC24V	0.660A				
		AC110V	0.133A				
		AC220V	0.067A				
	5	AC/DC12V	0.820A			DC-1.30kg AC-1.74kg	● R-Red ● A-Amber ● G-Green ● B-Blue ● W-White
		AC/DC24V	0.770A				
		AC110V	0.139A				
		AC220V	0.070A				

※ Please refer to page 136 for detailed information about selectable sound patterns.

Customization

- Customized light sources and light mode

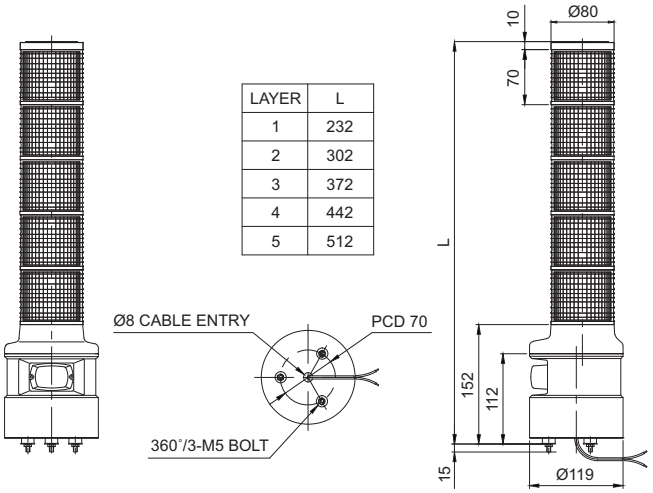
Model number	Lens Diameter	Lens Height	Light Mode	Tower Light Part Model
STD56EL(F)	Ø56mm	40mm	LED Steady/Flashing	ST56EL
STD56L(F)	Ø56mm	70mm	LED Steady/Flashing	ST56L
STDEL(F)	Ø80mm	40mm	LED Steady/Flashing	ST80EL

- Customized color arrangements available
- Wall mount brackets

Technical Diagram

(Units : mm)

STDL/ STDLF



LAYER	L
1	232
2	302
3	372
4	442
5	512

Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- External signal line standard : UL1007 AWG22(0.3sq) 400mm
- Product can be wired regardless of polarity(Non-polarity)

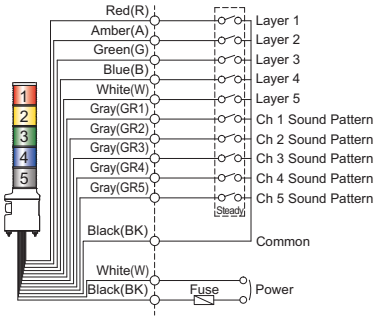
Do not supply power to each signal line. It may cause damage to the product

- STDL/ STDLF model wiring can be done with either external contact or external transistors.
- In case of wiring by using transistor, NPN transistor is needed and follow the wiring diagram on the right in order to wire properly.

Wiring Instructions

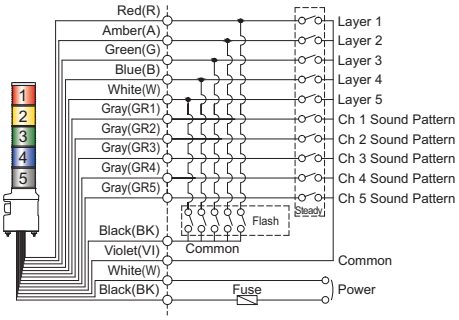
STDL-DC/AC (Steady)

EXTERNAL CONTACT



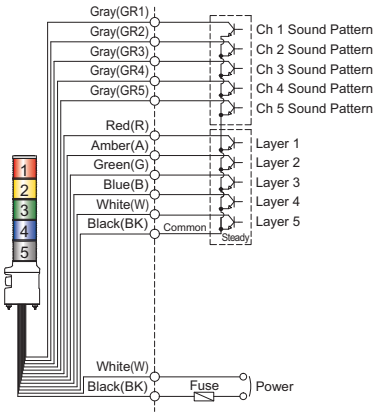
STDLF-DC/AC (Steady/Flashing)

EXTERNAL CONTACT



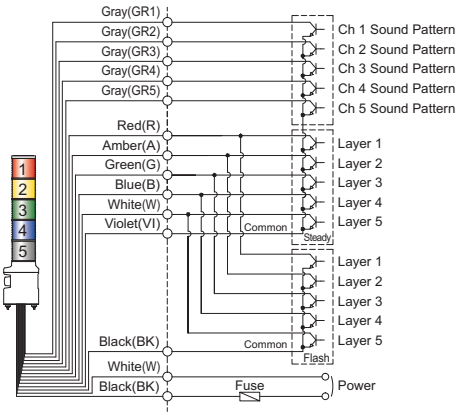
STDL-DC/AC (Steady)

EXTERNAL TRANSISTOR-NPN



STDLF-DC/AC (Steady/Flashing)

EXTERNAL TRANSISTOR-NPN



Ordering Specification

STDL	-	WA	-	3	-	220	-	RAG
[Model number]		[Sound selection]		[Layer]		[Voltage]		[Color]
• STDL • STDLF		• WS-Warning • WM-Melody • WA-Alarm • WV-Customizable sound		• 1-1Layer • 2-2Layers • 3-3Layers • 4-4Layers • 5-5Layers		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue • W-White

S100D series

Signal/ Warning Light and Electric Horn Combinations

IP54 | -20~+50℃ | -30~+50℃ | HORN | 105dB | NPN | RoHS

Various built-in sound tones of warning sounds, alarms and melodies

S100DLR

S100DL/ S100DS

S100D

Common Specifications(S100DLR/ S100DL/ S100DS/ S100D)

- Ø100mm signal/warning lights and electric horn combination provides both audible and visual signaling capability in one unit
- Can select the proper signaling effect from a variety of light sources and sound tones
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Protection rating : IP54
- Compliant with RoHS directive (S100DLR/ S100DL)

S100DLR LED Revolving Light & Electric Horn

- Revolving speed : 120-140RPM
- Ambient operating temperature : -20°C to +50°C

Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
S100DLR	DC12V	0.483A	• WS-5 Warning sounds : 105dB • WM-5 Melodies : 105dB • WA-5 Alarms : 103dB • WV-5 Customizable sounds : 95dB	-	0.89kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.327A			0.89kg	
	AC110V	0.120A			1.27kg	
	AC220V	0.060A			1.27kg	

S100DL LED Steady/Flashing Light & Electric Horn

- Flashing rate : 60-80 flashes/min
  (Built-in switch for selection between steady and flashing mode)
- Ambient operating temperature : -30°C to +50°C
- Certificates : CE Compliant

Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
S100DL	DC12V	0.411A	• WS-5 Warning sounds : 105dB • WM-5 Melodies : 105dB • WA-5 Alarms : 103dB • WV-5 Customizable sounds : 95dB	CE	0.95kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.315A			0.95kg	
	AC110V	0.114A		-	1.16kg	
	AC220V	0.057A			1.16kg	

S100DS Xenon Lamp Strobe Light & Electric Horn

- Flashing rate : 60-80 flashes/min
- Ambient operating temperature : -30°C to +50°C

Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Bulb	Color
S100DS	DC12V	1.331A	• WS-5 Warning sounds : 105dB • WM-5 Melodies : 105dB • WA-5 Alarms : 103dB • WV-5 Customizable sounds : 95dB	-	0.76kg	48	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.899A			0.76kg		
	AC110V	0.231A			1.21kg		
	AC220V	0.155A			1.21kg		

S100D Bulb Revolving Light & Electric Horn

- Revolving Speed : 120-140RPM
- Ambient operating temperature : -20°C to +50°C
- Certificates : CE Compliant

Model number	Voltage	Current	Bulb			Sound Pattern and Volume	Certificates	Weight	Color
			Spec	Standard	Parts no				
S100D	DC12V	1.266A	12V10W	T16x35 15S	9	• WS-5 Warning sounds : 105dB	CE DC24V only	0.96kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.766A	24V10W	T16x35 15S	10	• WM-5 Melodies : 105dB		0.96kg	
	AC110V	0.187A	12V10W	T16x35 15S	9	• WA-5 Alarms : 103dB		1.38kg	
	AC220V	0.094A	12V10W	T16x35 15S	9	• WV-5 Customizable sounds : 95dB		1.38kg	

※ Please refer to Page 136 for detailed specification of sound tones.

S100D series

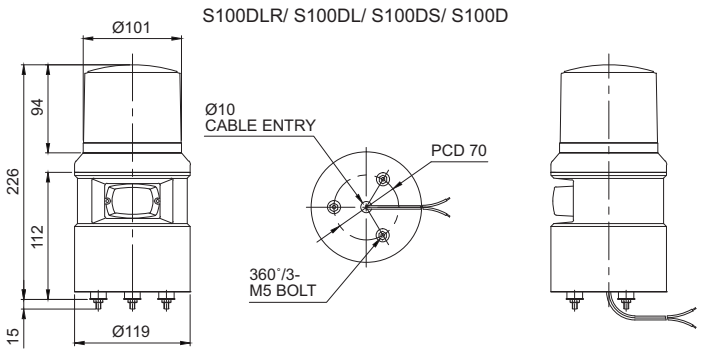
Signal/ Warning Light and Electric Horn Combinations

- S100D series come with prerecorded sounds.
- For WV(5Customized sounds)type, Input audio message needs to be provide by the customer prior to manufacturing.
- S100DL model wiring can be done with either external transistor wiring.
- In case of wiring by using transistor, NPN transistor is needed and follow the wiring diagram on the right in order to wire properly.

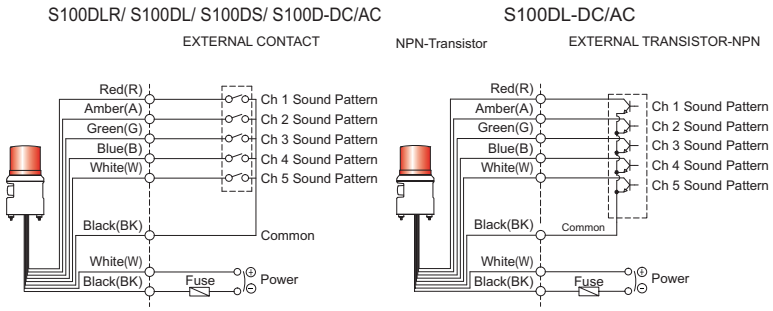
S100D applied to a metallic mold machine.

Technical Diagram

(Units : mm)



Wiring Instructions



- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- External signal line standard : UL1007 AWG22(03sq) 400mm
- DC type : Black output line is negative(-)

Do not apply voltage to each signal line. It may cause damage to the product.

By default the warning light is turned on when the power is supplied, the voice/ alarm output is powered on by a separate connection. Please wire properly.

Ordering Specification

S100D	-	WA	-	220	-	R
[Model number]		[Sound]		[Voltage]		[Color]
• S100DLR • S100DL • S100DS • S100D		• WS-Warning • WM-Melody • WA-Alarm • WV-Customizable sound		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

S125D series

Signal/ Warning Light and Electric Horn Combinations

IP54 | -20~+50°C | -30~+50°C | HORN | 105dB | NPN | RoHS

Various built-in sound tones of Warning sounds, Alarms and Melodies

S125DLR

S125DL/ S125DS

S125D

Common Specifications(S125DLR/ S125DL/ S125DS/ S125D)

- Ø125mm signal/ warning light and electric horn combinations provides both audible and visual signaling capability in one unit
- Can select the proper signaling from a variety of light source and sound tone
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Protection rating : IP54
- Compliant with RoHS directive (S125DLR/ S125DL)

S125DLR LED Revolving Light & Electric Horn

- Revolving speed : 120-140RPM
- Ambient operating temperature : -20°C to +50°C

Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
S125DLR	DC12V	0.483A	• WS-5 Warning sounds : 105dB • WM-5 Melodies : 105dB • WA-5 Alarms : 103dB • WV-5 Customizable sounds : 95dB	-	0.92kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.327A			0.92kg	
	AC110V	0.120A			1.29kg	
	AC220V	0.060A			1.29kg	

S125DL LED Steady/Flashing Light & Electric Horn

- Flashing rate : 60-80 flashes/min
  (Built-in switch for selection between steady and flashing mode)
- Ambient operating temperature : -30°C to +50°C

Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
S125DL	DC12V	0.517A	• WS-5 Warning sounds : 105dB • WM-5 Melodies : 105dB • WA-5 Alarms : 103dB • WV-5 Customizable sounds : 95dB	-	0.76kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.435A			0.76kg	
	AC110V	0.123A			1.16kg	
	AC220V	0.062A			1.16kg	

S125DS Xenon Lamp Strobe Light & Electric Horn

- Flashing rate : 60-80 flashes/min
- Ambient operating temperature : -30°C to +50°C

Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Bulb	Color
S125DS	DC12V	1.331A	• WS-5 Warning sounds : 105dB • WM-5 Melodies : 105dB • WA-5 Alarms : 103dB • WV-5 Customizable sounds : 95dB	-	0.78kg	48	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.899A			0.78kg		
	AC110V	0.231A			1.23kg		
	AC220V	0.155A			1.23kg		

S125D Bulb Revolving Light & Electric Horn

- Revolving speed : 120-140RPM
- Ambient operating temperature : -20°C to +50°C
- Certificates : CE Compliant

Model number	Voltage	Current	Bulb			Sound Pattern and Volume	Certificates	Weight	Color
			Spec	Standard	Parts no				
S125D	DC12V	1.266A	12V10W	T16x35 15S	9	• WS-5 Warning sounds : 105dB	CE DC24V only	1.00kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.766A	24V10W	T16x35 15S	10	• WM-5 Melodies : 105dB		1.00kg	
	AC110V	0.187A	12V10W	T16x35 15S	9	• WA-5 Alarms : 103dB		1.41kg	
	AC220V	0.094A	12V10W	T16x35 15S	9	• WV-5 Customizable sounds : 95dB		1.41kg	

※ Please refer to Page 136 for detailed specification of sound tones.

S125D series

Signal/ Warning Light and Electric Horn Combinations

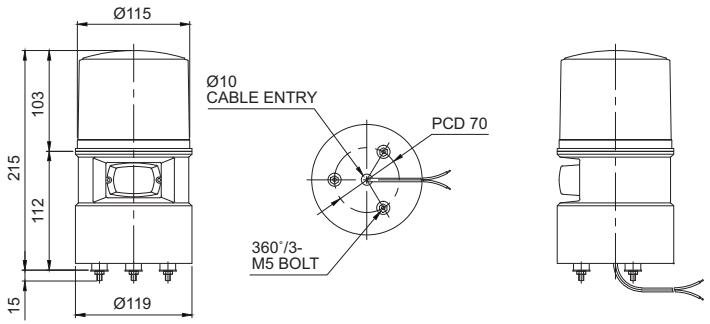
- S125D series comes with prerecorded sounds.
- For WV(5Customized Sounds)type, Input audio message needs to be provide by the customer prior to manufacturing.
- S125DL model wiring can be done with either external contact or external transistors.
- In case of wiring by using transistor, NPN transistor is needed and follow the wiring diagram on the right in order to wire properly.

S125D is applied to a large press machine control panel.

Technical Diagram

(Units : mm)

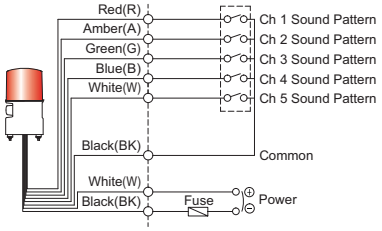
S125DLR/ S125DL/ S125DS/ S125D



Wiring Instructions

S125DLR/ S125DL/ S125DS/ S125D-DC/AC

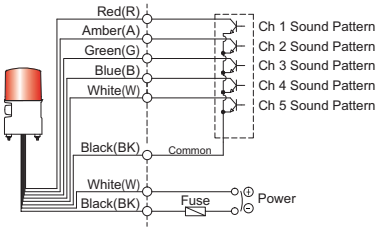
EXTERNAL CONTACT



S125DL-DC/AC

NPN-Transistor

EXTERNAL TRANSISTOR-NPN



- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- External signal line standard : UL1007 AWG22(03sq) 400mm
- DC type : Black output line is Negative(-)

Do not apply voltage to each signal line. It may cause damage to the product.

By default the warning light is turned on when the power is supplied, the voice/ alarm output is powered on by a separate connection. Please wire properly.

Ordering Specification

S125D	-	WA	-	220	-	R
[Model number]		[Sound selection]		[Voltage]		[Color]
• S125DLR • S125DL • S125DS • S125D		• WS-Warning • WM-Melody • WA-Alarm • WV-Customizable sound		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

Warning lights with electric horn supports 30 prerecorded, 30 user defined sound tones(MP3)

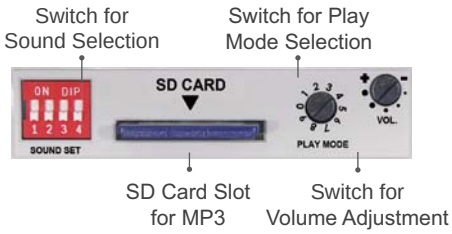
- 6 Bit input, 5 sound tones for each group
- Binary input 30 sound tones output
- SD Card(MP3) support

• Sound Tone Selection & Volume Control

STND series is a combination of warning light and signal horn that allows sound tone selection and volume control through a built-in control panel. In addition, it supports MP3 through an SD Card.

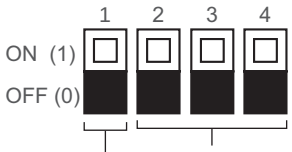
Multifunctional Type

• Features



• Sound Setup Switch

You can select between pre-recorded sound mode and SD Card sound (MP3) mode with the SOUND selection switch.



Group Choice in Bit Input Mode

001 : WS (5 Warning sounds)
010 : WP
(5 special warning sounds 1st group)
011 : WM (5 Melodies)
100 : WA (5 Alarms)
101 : WO
(5 special warning sounds 2nd group)
110 : WN
(5 special warning sounds 3rd group)

Sound Selection
0 : Built-in sound
1 : SD Card(MP3)

- Built-in sounds(5WS, 5WP, 5WM, 5WA, 5WO and 5WN)
- Support SD Card(MP3)
- Binary Input : 30Ch
- Bit input : 5Ch(6 groups)
- Support MP3 format through SD Card
- Detailed instructions for multi-functional products are shown on page 140

Common Specifications(STNDL/ STND100/ STND125)

- Combination of warning light and horn allows transmission of both visual and audible signals together
- Appropriate sound tones can be chosen depending on the various working environments among the various type of available sound tones
- Sound tone selector and volume controller in front of the device allows convenient use
- SD Card type allows user defined sound tone
- Built-in 30 sound tones, support binary and bit input modes
- Bit input mode consists of 5 sound types with 6 groups. Choose one of the groups to play 5 sounds from that group.(MP3 is separate from the 6 groups)
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature
  -20°C to +50°C : STND100LR, STND100R, STND125LR, STND125R
  -30°C to +50°C : STNDL, STND100L, STND125L
- Protection rating : IP54

Built-in sounds 30

Multi-functional product has 30 built-in sound tones

Sound	Category	Ch	Sound Tone
WS	5 Warning sounds	Ch1	Fire.A-ANG
		Ch2	Emergency WA-U(Yelp)
		Ch3	Ambulance PI-PO(Hi- low)
		Ch4	Machinery Fault
		Ch5	Form Alarm
WP	5 special warning sounds (1st group)	Ch1	Fire.A-ANG
		Ch2	Abandon Alarm
		Ch3	Machinery Fault
		Ch4	High Expansion
		Ch5	7 Short PI. / 1 Long
WM	5 Melodies	Ch1	Sweet Home
		Ch2	For Elise
		Ch3	Cuckoo's Waltz
		Ch4	Piano Sonata
		Ch5	Turkish March

Sound	Category	Ch	Sound Tone
WA	5 Alarms	Ch1	Beep Intermittent
		Ch2	Door Chime
		Ch3	Phone Ring
		Ch4	PI.PI.PI Short
		Ch5	Tripping Beat
WO	5 special warning sounds (2nd group)	Ch1	Phone Ring
		Ch2	Police
		Ch3	Emergency
		Ch4	Phone Ring 2
		Ch5	911 siren
WN	5 special warning sounds (3rd group)	Ch1	Do-ong Do-ong
		Ch2	Di- Di-
		Ch3	PI.PI.PI long
		Ch4	Li long Li long
		Ch5	Siren

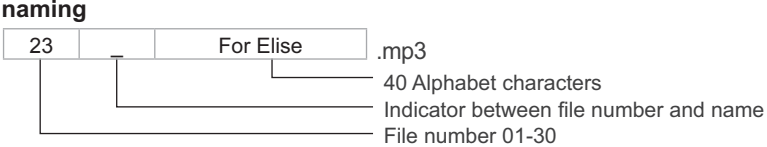
User-defined sound (MP3)

User-defined sound(MP3) type

Customer can create a playlist and grouping conveniently through PC. Product supports up to 32Gbyte. SD Card is an optional item.

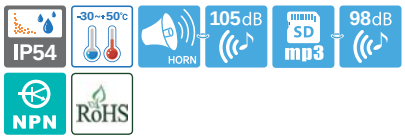
*SD Card needs to be purchased.

MP3 file naming



STND series

Multifunctional Signal/ Warning Lights with Built-in Buzzer



STND series

STND series has a front control panel for convinient sound signal control.

Wiring Instructions

- External power line standard, UL1015 AWG18(0.75sq)×2C 400mm
- Signal line standard, UL1007 AWG22(0.3sq) 400mm
- Product can be wired regardless of polarity

※ Please refer to page103 for detailed wiring information.

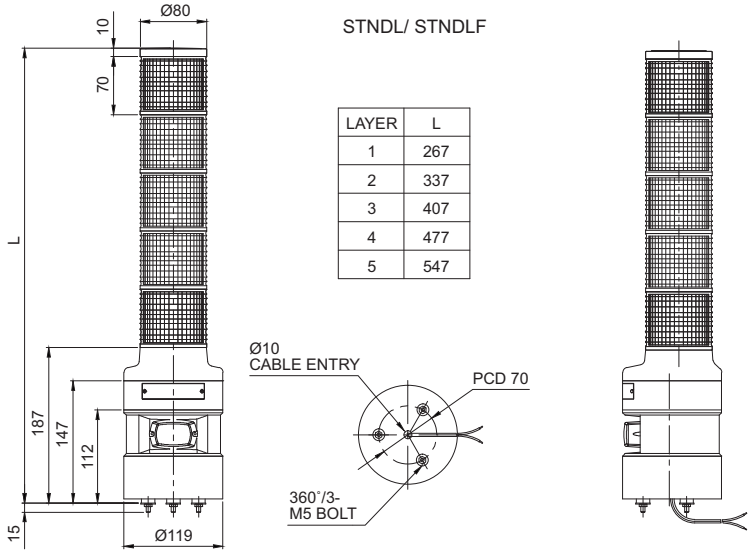
STNDL LED Steady/Flashing Lights & Electric Horn

- Lens colors are interchangeable
- Certificates : CE Compliant
- Compliant with RoHS directive

Model number	layer	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
STNDL Steady STNDLF Steady/ Flashing	1	DC12V	0.610A	• WS-Warning sound • WP-Special warning sound 1st group • WM-Melody • WA-Alarm	CE DC Only	DC-1.19kg AC-1.58kg	• R-Red
		DC24V	0.330A				
		AC110V	0.154A				
		AC220V	0.087A				
	2	DC12V	0.770A			DC-1.43kg AC-1.82kg	• R-Red • G-Green
		DC24V	0.410A				
		AC110V	0.162A				
		AC220V	0.092A				
	3	DC12V	0.930A	• WO-Special warning sound 2nd group • WN-Special warning sound 3rd group • SD Card-MP3 Volume : 105dB		DC-1.67kg AC-2.06kg	• R-Red • A-Amber • G-Green
		DC24V	0.490A				
		AC110V	0.171A				
		AC220V	0.096A				
	4	DC12V	1.090A	• Bit input : 5Ch • Binary Input : 30Ch • Warning sound : 105dB • MP3 : 98dB		DC-1.91kg AC-2.30kg	• R-Red • A-Amber • G-Green • B-Blue
		DC24V	0.570A				
		AC110V	0.182A				
		AC220V	0.102A				
	5	DC12V	1.250A			DC-2.15kg AC-2.54kg	• R-Red • A-Amber • G-Green • B-Blue • W-White
		DC24V	0.650A				
		AC110V	1.078A				
		AC220V	0.520A				

Technical Diagram

(Units : mm)



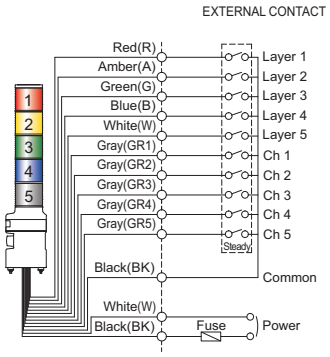
Ordering Specification

STNDL	-	3	-	24	-	RAG
[Model number]		[Layer]		[Voltage]		[Color]
• STNDL • STNDLF		• 1-1Layer • 2-2Layers • 3-3Layers • 4-4Layers • 5-5Layers		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue • W-White

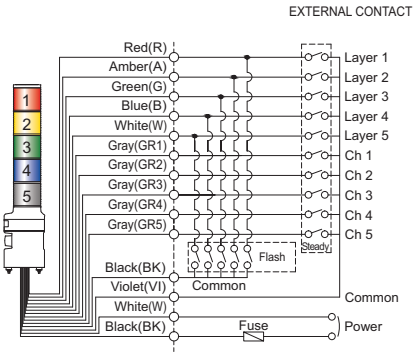
Wiring Instructions

External contact

STNDL-DC/AC (Steady)

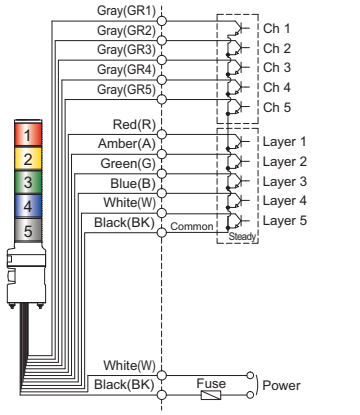


STNDLF-DC/AC (Steady/Flashing)

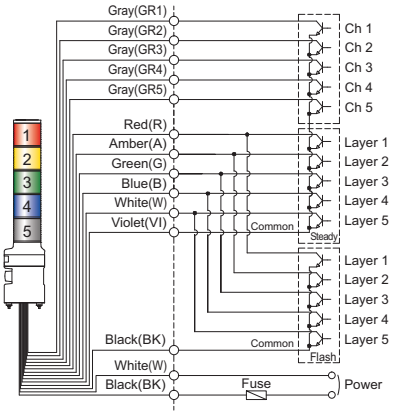


Transistor

STNDL-DC/AC (Steady)



STNDLF-DC/AC (Steady/Flashing)



- Product can be wired regardless of polarity.
- In case of Bit input, 5 sound tones can be played. For Binary input, 30 sound tones can be played.

※ Please refer to page 140 for detailed channel input instruction. (Wiring Instructions substitutes for channel selection switch)

Do not apply power into each signal line. Product may be damaged

- NPN transistor(non-external contact control) can be enabled by using the flashing common line for the light source.
- Each unit's light source and signal sound do not operate identically even though multiple units are working at the same time.
- Do not short-circuit between steady common and flash common. Signal light won't work properly.

STND series

Multifunctional Signal/ Warning Lights with Built-in Buzzer

- 6 Bit input, 5 sound tones for each group
- Binary input 30 sound tones output
- SD Card(MP3) support

STND100LR

STND100L

STND100R

STND100LR LED Revolving Signal Light & Electric Horn Combination

- Excellent omni-directional visibility with LED light collecting system and special multifaceted reflector
- Revolving speed : 120-140RPM
- Compliant with RoHS directive

Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
STND100LR	DC12V	0.880A	• Bit input : 5Ch • Binary Input : 30Ch • Warning sound : 105dB • MP3 : 98dB	-	1.40kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.520A			1.40kg	
	AC110V	0.180A			1.62kg	
	AC220V	0.110A			1.62kg	

STND100L LED Steady/Flashing Signal Light & Electric Horn Combination

- Excellent visibility that employs a special scattering lens
- Flashing rate : 60-80 flashes/min(Built-in switch for selection between steady and flashing mode)
- Certificates : CE Compliant, UL Listed
- Compliant with RoHS directive

Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
STND100L	DC12V	0.750A	• Bit input : 5Ch • Binary Input : 30Ch • Warning sound : 105dB • MP3 : 98dB	CE DC Only	1.37kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.450A			1.37kg	
	AC110V	0.158A		UL DC24V Only	1.78kg	
	AC220V	0.090A			1.78kg	

STND100R Bulb Revolving Signal Light & Electric Horn Combination

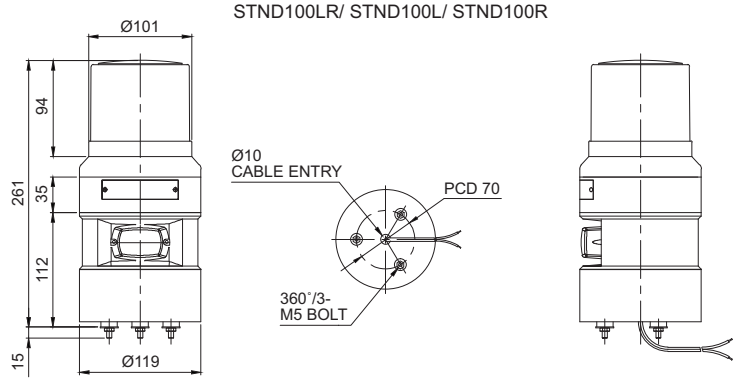
- Revolving speed : 120-140RPM

Model number	Voltage	Current	Bulb			Sound Pattern and Volume	Certificates	Weight	Color
			Spec	Standard	Parts no				
STND100R	DC12V	1.420A	12V10W	T16x35 15S	9	• Bit Input : 5Ch • Binary Input : 30Ch • Warning sound:105dB • MP3:98dB	-	1.57kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.820A	24V10W	T16x35 15S	10			1.57kg	
	AC110V	0.230A	12V10W	T16x35 15S	9			1.82kg	
	AC220V	0.130A	12V10W	T16x35 15S	9			1.82kg	

Technical Diagram

(Units : mm)

STND100LR/ STND100L/ STND100R



Ordering Specification

STND100LR	-	24	-	R
[Model number]		[Voltage]		[Color]
• STND100LR • STND100L • STND100R		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

STND series

Multifunctional Signal/ Warning Lights with Built-in Buzzer

- 6 Bit input, 5 sound tones for each group
- Binary input 30 sound tones output
- SD Card(MP3) support

STND125LR

STND125L

STND125R

STND125LR LED Revolving Signal Light & Electric Horn Combination

- Excellent omni-directional visibility with LED light collecting system and special multifaceted reflector
- Revolving speed : 120-140RPM
- Compliant with RoHS directive

Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
STND125LR	DC12V	0.880A	• Bit input : 5Ch • Binary Input : 30Ch • Warning sound : 105dB • MP3 : 98dB	-	1.35kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.520A			1.35kg	
	AC110V	0.180A			1.73kg	
	AC220V	0.110A			1.73kg	

STND125L LED Steady/Flashing Signal Light & Electric Horn Combination

- Excellent visibility that employs a special scattering lens
- Flashing rate : 60-80 flashes/min(Built-in switch for selection between steady and flashing mode)
- Certificates : CE Compliant
- Compliant with RoHS directive

Model number	Voltage	Current	Sound Pattern and Volume	Certificates	Weight	Color
STND125L	DC12V	0.750A	• Bit input : 5Ch • Binary Input : 30Ch • Warning sound : 105dB • MP3 : 98dB	CE DC Only	1.32kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.450A			1.32kg	
	AC110V	0.158A			1.65kg	
	AC220V	0.090A			1.65kg	

STND125R Bulb Revolving Signal Light & Electric Horn Combination

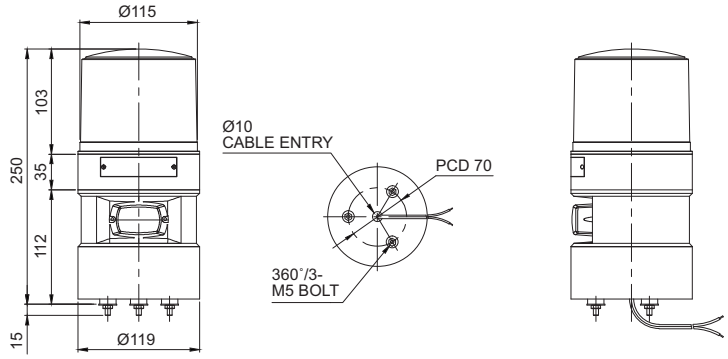
- Revolving speed : 120-140RPM

Model number	Voltage	Current	Bulb			Sound Pattern and Volume	Certificates	Weight	Color
			Spec	Standard	Parts no				
STND125R	DC12V	1.420A	12V10W	T16x35 15S	9	• Bit Input : 5Ch • Binary Input : 30Ch • Warning sound:105dB • MP3:98dB	-	1.27kg	• R-Red • A-Amber • G-Green • B-Blue
	DC24V	0.820A	24V10W	T16x35 15S	10			1.27kg	
	AC110V	0.230A	12V10W	T16x35 15S	9			1.62kg	
	AC220V	0.130A	12V10W	T16x35 15S	9			1.62kg	

Technical Diagram

(Units : mm)

STND125LR/ STND125L/ STND125R



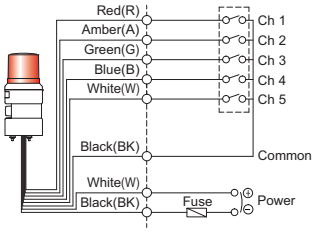
Ordering Specification

STND125LR	-	24	-	R
[Model number]		[Voltage]		[Color]
• STND125LR • STND125L • STND125R		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

Wiring Instructions

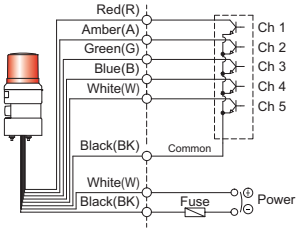
STND100R/STND100L/STND100LR/-DC/AC

EXTERNAL CONTACT



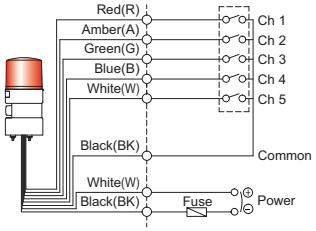
STND100DL-DC/AC

NPN-Transistor EXTERNAL TRANSISTOR-NPN



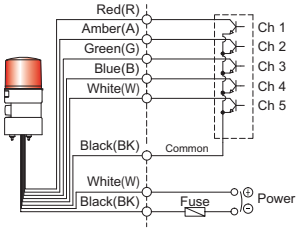
STND125R/STND125L/STND125LR/-DC/AC

EXTERNAL CONTACT



STND125DL-DC/AC

NPN-Transistor EXTERNAL TRANSISTOR-NPN



• In case of 6 Bits input, 5 sound tones can be played. For Binary input, 30 sound tones can be played.

※ Detailed instructions for multi-functional products are shown on page 140. (Wiring Instructions substitutes for channel selection switch)

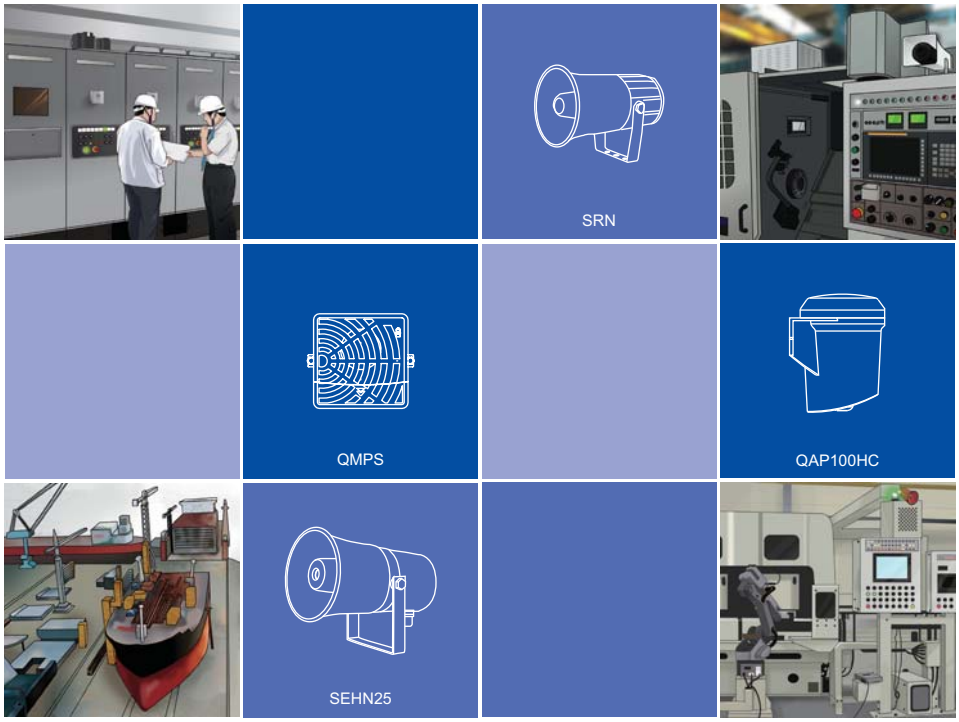
Do not apply power into each signal line. Product may be damaged

• NPN transistor(non-external contact control) can be enabled by using the flashing common line for the light source.
• Each unit's light source and signal sound do not operate identically even though multiple units are working at the same time.
• Do not short-circuit between steady common and flash common. Signal light won't work properly.

CATALOGUE

Electric Horns/ Speakers

INNOVATION IN ALARM & SIGNAL



Quick reference of volume 108

Technical information 110

References 111

Product specifications 113

Product Volume Quick Reference Guide

Qlight provides a wide range of audible products between 85dB – 130dB. Please take a look at the Product Volume Quick Reference Guide for the sound level of each of our audible products.

SANA700 SANA400 SANA200 — 130dB

QWH50 SMP50 SM400 — 123dB

SEWN50E SEWN50-2T SEWN50L SEHN50 SM200 — 120dB

SHDN30 SEWN30E SPNA — 118dB

QAP125HC SMP35 QWH35 SEN25 SEHN25 SM40 — 115dB

SM30 — 110dB

SRN SEN15 — 108dB

QAP125BZC QAP100BZC QAP80BZC SN — 105dB

QAP100HC QAP80HC S60ADH QMPS — 100dB

SBE130 SBE150 SAB130 SAB200 SN-1 — 95dB

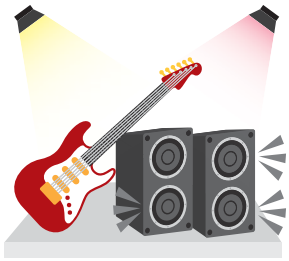
90dB

SPK — 85dB

Air plane - 140dB

130dB Air Horn(SANA series)

123dB
Motor Siren(SM400)
Multifunctional Electric Horn(SMP50)
Special Warning Electric Signal Horn(QWH50)



120dB
Motor Siren(SM200)
Heavy-Duty Electric Horn
(SEHN50, SEWN50L, SEWN50-2T, SEWN50E)

Rock Concert - 120dB

118dB
Explosion proof Electric Horn(SPNA)
Heavy-Duty Electric Horn(SEWN30E)
Full Duplex Heavy-Duty Electric Horn(SHDN30)

115dB
Motor Siren(SM40), Heavy-Duty Electric Horn(SEHN25)
Electric Signal Horn(SEN25)
Multifunctional Electric Horn(SMP35, QAP125HC)
Special Warning Electric Horn(QWH35)

110dB Motor Siren(SM30)

Vehicle Horn - 100-110dB

108dB
Electric Horn(SEN15)
Electric Horn(SRN)

105dB
Electric Signal Horn(SN)
Wall Mount High Sound Buzzer Horn
(QAP80BZC, QAP100BZC, QAP125BZC)

100dB
Multifunctional Panel Type Speaker(QMPS)
Wall Mount High Sound Buzzer Horn(S60ADH)
Multifunctional Electric Horn(QAP80HC, QAP100HC)

Plant / Train - 100dB

95dB
Electric Horn(SN-1)
Lamp Attached Alarm Bell(SAB130, SAB200)
Explosion proof Alarm Bell(SBE130, SBE150)

90dB

85dB Panel Type Speaker(SPK)

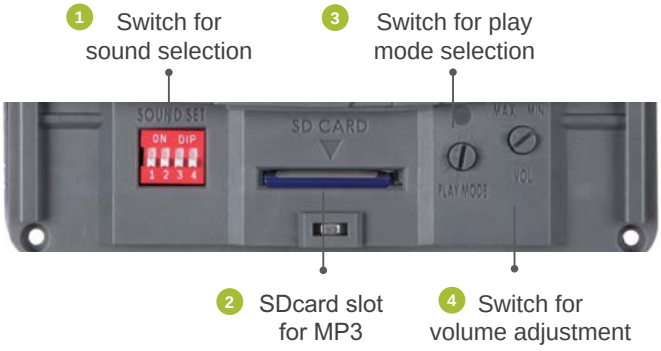
Vacuum Cleaner - 80dB

Technical Information for Multifunctional Electric Horns/ Speakers

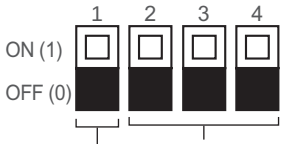
What is Multifunctional Electric Horn/ Speaker?

1. Multifunctional electric horn/ speaker is a versatile horn which is able to play built-in 30 sound tones as well as MP3 file from SDcard.
2. User can designate the sound tone in the SDcard through a PC.

■ Features



1 Sound setting switch



Bit input mode selection from 6 groups

001: WS(5 Warning sounds)
010: WP(5 Special warning sounds 1st group)
011: WM(5 Melodies)
100: WA(5 Alarms)
101: WO(5 Special warning sounds 2nd group)
110: WN(5 Special warning sounds 3rd group)

Selection between pre-recorded sound mode and SDcard sound mode

0: Pre-recorded sound mode
1: SDcard sound mode

- Switch No1. allows user to choose the option between Pre-Recorded sound and sound from the SDcard.
- Switch No.2 – 4 allows user to choose 1 group of 6 in the case of bit input mode.

2 SDcards

- The SDcard is a compact flash memory card for storing MP3 files.
- After saving the MP3 files in the SDcard with the specified format, insert the card into the SDcard slot and switch the sound setting switch to ON(1) so the sounds can be played from the SDcard.

3 PLAY MODE setting switch

- Play mode setting switch allows the user to chose the proper channel input method and playback mode. Please refer to the table below for a description of each setting switch features.
- Switch No.0 and No.9. are not used.

1	Bit Input Mode	5 sounds can be played from the selected group. (can choose 1 group among 6 groups) Play message one time and quit.(In case of Consecutive signal or pulse signal)
2	Binary Input Mode	Up to 31 sounds available for each model. Plays sound only once.(consecutive signal only)
3	Bit Input Hold Playback Mode	5 sounds can be played from the selected group. (can choose 1 group among 6 groups) The sound is repeated if the input signal is maintained.(Consecutive signal only) Sound will be suspended the STOP signal, otherwise the message is played repeatedly.
4	Binary Input Hold Playback Mode	Up to 31 sounds available for each model The sound is repeated if the input signal is maintained.(consecutive signal only) Sound will be suspended the STOP signal, otherwise the message is played repeatedly.
5	Bit Input Sound Reduction Mode	5 sounds can be played from the selected group. (can choose 1 group among 6 groups) Volume reduction signal line is able to decrease the volume by as much as 15dB.(can reduce input volume as well)
6	Binary Input Sound Reduction Mode	Up to 31 sounds available for each model Volume reduction signal line is able to decrease the volume by as much as 15dB.(can reduce input volume as well)
7	Bit Input Sequence Memory Playback Mode	5 sounds can be played from the selected group. (Can choose 1 group among 6 groups) Playback around 3 seconds for each sound in accordance with the sequence of input. Final input channel is fully played.(Bit input Mode ONLY)
8	Test Mode	In test mode, Ch1 of group is automatically played back repeatedly. Change to other modes in order to quit the test mode.

4 VOLUME

- Volume is adjustable with the sound dial included.

Reference for Electric Horn/ Speaker/ Motor Siren/ Buzzer Horn/ Bell

Model number(series)		SPK	QMPS	S60ADH	QAP80H	QAP80BZ	QAP100H	QAP100BZ
Voltage		DC12V, DC24V AC110V, AC220V	DC12V-24V AC110V-220V	DC12V, DC24V AC110V, AC220V	DC12V-DC24V	DC12V, DC24V	DC12V-24V AC110V-220V	DC12V, DC24V AC110V-220V
Dimension (mm)	Diameter	80×80	120×120	Ø75	Ø83	Ø83	Ø97	Ø97
	Height	-	-	158	129	129	137	137
	Depth	75	69	86	93	93	109	109
Materials		ABS	ABS	ABS	ABS	ABS	ABS	ABS
Sound & Volume	1 Tone Buzzer			Max 100dB at 1m		Max 105dB at 1m		Max 105dB at 1m
	5 Signal Sounds	Max 85dB at 1m						
	Voice							
	30 Signal Sounds		Max 98dB at 1m		Max 100dB at 1m		Max 100dB at 1m	
	31 Signal Sounds							
	MP3		Max 95dB at 1m				Max 95dB at 1m	
	Other Sound							
Mounting structure		Panel mount	Panel mount	Wall mount	Wall mount	Wall mount	Wall mount	Wall mount
Caple entry		-	-	-	Ø10	Ø10	Ø10	Ø10
Protection rating		IP23	IP54	IP54	IP65	IP65	IP65	IP65
Certificate		CE	CE, UL	CE	-	-	-	-
Customization		-	-	Strong buzzer 105dB	-	-	-	-
Transistor		NPN type	NPN type		NPN type	-	NPN type	-
Page		P113	P114-115	P116	P118	P118	P119	P119

Model number(series)		QAP125H	QAP125BZ	SRN	SEN15	SEN25	SMP35	SMP50
Voltage		DC12V-24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V-24V AC110V-220V	DC12V, DC24V AC110V-220V
Dimension (mm)	Diameter	Ø116	Ø116	Ø125	130	130	145×177	145×177
	Height	149	149	-	-	-	-	-
	Depth	132	132	185(Length)	200(Length)	200(Length)	216(Length)	216(Length)
Materials		ABS	ABS	ABS	ABS	ABS	ABS	ABS
Sound & Volume	1 Tone Buzzer		Max 105dB at 1m					
	5 Signal Sounds			Max 108dB at 1m	Max 108dB at 1m	Max 115dB at 1m		
	Voice			Max 98dB at 1m	Max 98dB at 1m	Max 108dB at 1m		
	30 Signal Sounds	Max 115dB at 1m					Max 115dB at 1m	Max 123dB at 1m
	31 Signal Sounds							
	MP3	Max 100dB at 1m					Max 113dB at 1m	Max 118dB at 1m
	Other Sound							
Mounting structure		Wall mount	Wall mount	Self stand	Self stand	Self stand	Self stand	Self stand
Caple entry		Ø10	Ø10	Ø10	Ø10	Ø10	Ø21	Ø21
Protection rating		IP65	IP65	IP55	IP55	IP55	IP65	IP65
Certificate		-	-	CE	CE	CE	-	-
Customization		-	-	External sound pattern signal line	External sound pattern signal line	External sound pattern signal line	External sound pattern signal line	External sound pattern signal line
Transistor		NPN type	-	NPN type	NPN type	NPN type	NPN type	NPN type
Page		P120	P120	P121	P121	P121	P123	P123

Reference for Electric Horn/ Speaker/ Motor Siren/ Buzzer Horn/ Bell

Model number(series)		SN	SEHN25	SEHN50	SN-1	SM30	SM40
Voltage		DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
Dimension (mm)	Diameter	Ø119(Horn)	Ø158(Horn)	Ø167(Horn)	Ø135(Horn)	Ø77	Ø128
	Height						
	Depth	167(Length)	238(Length)	242(Length)	140(Length)	82(Length)	162(Length)
Materials		Housing-Steel	Housing-Steel	Housing-Steel	Housing-Steel	Housing-Steel	Housing-ABS
Sound & Volume	1 Tone Buzzer						
	5 Signal Sounds	Max 105dB at 1m	Max 115dB at 1m	Max 120dB at 1m	-	-	-
	Voice	Max 95dB at 1m	Max 108dB at 1m	Max 115dB at 1m	-	-	-
	30 Signal Sounds						
	31 Signal Sounds						
	MP3						
	Other Sound	-	-	-	Max 100dB at 1m	Max 110dB at 1m	Max 116dB at 1m
Mounting structure		Self stand	Self stand	Self stand	Self stand	Self stand	Self stand
Caple entry		Ø10	Ø21	Ø21	Ø10	Ø22	Ø22
Protection rating		IP55	IP55	IP55	IP55	IP44	IP44
Certificate		KIMM	KIMM	KIMM	-	-	-
Customization		External sound pattern signal line	External sound pattern signal line	External sound pattern signal line	-	-	-
Transistor		NPN type	NPN type	NPN type	-	-	-
Page		P127	P127	P128	P124	P129	P129

Model number(series)		SM200	SM400	SAB130	SAB200	QWH35	QWH50
Voltage		DC24V AC110V, AC220V	DC24V AC110V, AC220V	DC24V AC110V, AC220V	DC24V AC110V, AC220V	DC12V-24V AC110V-220V	DC12V, DC24V AC110V-220V
Dimension (mm)	Diameter	Ø143	Ø165	Ø130(Bell)	Ø200(Bell)	136×179	168×222
	Height	-	-	238	269	-	-
	Depth	231(Length)	284(Length)	107	107	126	163
Materials		Housing-Steel	Housing-Steel	Bell-Steel Housing-ABS	Bell-Steel Housing-ABS	Horn-PC Housing-PC+ABS	Horn-PC HousingPC+-ABS
Sound & Volume	1 Tone Buzzer						
	5 Signal Sounds						
	Voice						
	30 Signal Sounds						
	31 Signal Sounds	-	-	-	-	Max 115dB at 1m	Max 123dB at 1m
	MP3	-	-	-	-	Max 113dB at 1m	Max 118dB at 1m
	Other Sound	Max 120dB at 1m	Max 123dB at 1m	Max 95dB at 1m	Max 95dB at 1m	-	-
Mounting structure		Direct mount	Direct mount	Wall mount	Wall mount	Wall mount	Wall mount
Caple entry		Ø9	Ø22	Ø26	Ø26	Ø21	Ø21
Protection rating		IP44	IP44	IP56	IP56	IP66	IP66
Certificate		CE				CE	CE
Customization		-	-	2 way cable entries	2 way cable entries	-	-
Transistor		-	-	-	-	NPN type	NPN type
Page		P130	P130	P131	P131	P126	P126

SPK Panel Mounted Speaker

SPK

SPK Max 85dB, Panel Mounted Speaker

- Panel mounted speaker that plays 8 clear and periodic sound tones
- General compatibility by adopting general equipment (62×62mm) mount holes
- Allowing volume control without dismantling the device
- Various sound patterns such as warning sound, melodies, and alarms can be chosen depending on the message use case
- Wiring terminal on the back side of the product
- Materials : ABS
- Sound volume : Max 85dB at 1m
- Ambient operating temperature : -25°C to +50°C
- Protection rating : IP23
- Certificates : CE Compliant

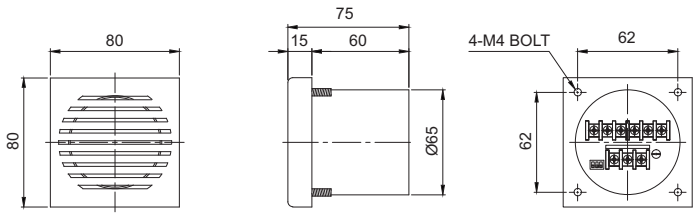
Model number	Pre-recorded Sound				Voltage/ Current	Certificate	Weight
	Sound Type	Ch	Sound Pattern	dB			
SPK	WS- 5 Warnings	1	Fire.A-ANG	85dB	DC12V / 0.288A DC24V / 0.155A AC110V / 0.036A AC220V / 0.018A	CE DC24V only	DC-0.19kg AC-0.21kg
		2	Emergency WA-U(Yelp)	85dB			
		3	Ambulance PI-PO(Hi-low)	85dB			
		4	Machinery Fault	85dB			
		5	High Expansion	83dB			
	WM- 5 Melodies	1	Sweet Home	85dB			
		2	For Elise	85dB			
		3	Cuckoo's Waltz	85dB			
		4	Piano Sonata	85dB			
		5	Turkish March	85dB			
	WA- 5 Alarms	1	Beep Intermittent	83dB			
		2	Door Chime	83dB			
		3	Phone Ring	85dB			
		4	PI.PI.PI Short	85dB			
		5	Tripping Beat	85dB			

Terminal box for power and sound (back side)

Technical Diagram

(Units : mm)

SPK



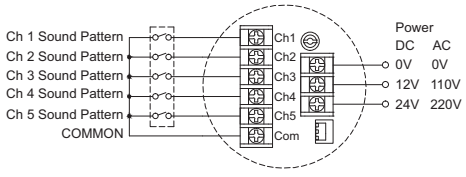
Ordering Specification

SPK	-	WM	-	220
[Model number]		[Sound]		[Voltage]
• SPK		• WS-Warning • WM-Melody • WA-Alarm		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V

Wiring Instructions

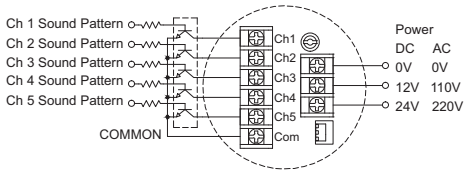
SPK-DC/AC

EXTERNAL CONTACT



SPK-DC/AC

EXTERNAL TRANSISTOR-NPN



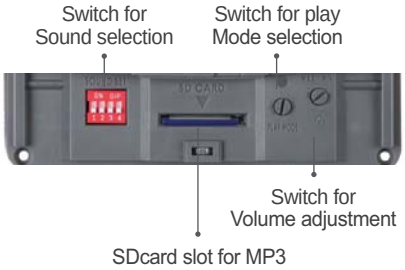
Both built-in sounds and option for external sound input via SDcard (MP3) have 30 built-in sounds
Able to avoid signal confusion with a variety of tone options

- **Bit Input offers 5 channels with 6 sound outputs**
- **Binary Input offers 30 sound outputs**
- **SDcard (MP3) combination**

QMPS QMPS Panel Embedded Multifunctional Speaker (SDcard/ MP3 Type)

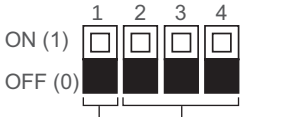
- Can prevent cross talk of different voice environments by selecting an audio signal fit for the specific environment and condition
- Offers both Binary and Bit input mode options with 30 pre-recorded sounds
- Binary input mode has built-in 30 messages that can be played with switch for sound selection
- Bit input mode is organized into 6 groups of 5 sound tones for a total of 30 sound tone options. Playback can be selected from one of the 5 tones in each group (MP3 file with bit input mode)
- Volume adjustment and sound selection switches located inside the unit
- SDcard type can play MP3 voice messages, user can select and change the sound message after record it
- Sound volume : Max 98dB at 1m
- Materials : Housing-ABS, Cover-ABS
- Ambient operating temperature : -25°C to +50°C
- Protection rating : IP54
- Certificates : CE Compliant, UL Listed
- Compliant with RoHS directive

• Features



Sound Selection Instruction for SDcard Type

You can select between pre-recorded sound mode and SDcard sound (MP3) mode with the SOUND selection switch



Bit input mode selection from 6 groups

001: WS(5 Warning sounds)
010: WP(5 Special warning sounds 1st group)
011: WM(5 Melodies)
100: WA(5 Alarms)
101: WO(5 Special warning sounds 2nd group)
110: WN(5 Special warning sounds 3rd group)

Selection between pre-recorded sound mode and SDcard sound mode

0: Pre-recorded sound mode
1: SDcard sound mode

SDcard(MP3) Type

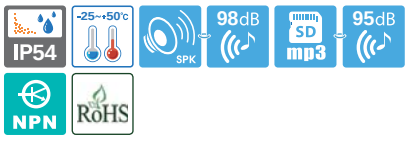
You can easily rearrage the sound playback and group arrangement with PC. Capacity is 32Gbyte.

※ SDcard sold separately.

- 30 pre-recorded sounds offered (5 warning sounds, 5 special warning sounds 1st group, 5 melodies, 5 alarms, 5 special warning sounds 2nd group, 5 special warning sounds 3rd group)
- External MP3 sound support (SDcard)
- Binary input : 30 channels
- Bit input : 5 channels (6 sound groups)
- A multi-functional product that can use an SDcard for MP3 playback
- Details on how to setup the multi-functional speakerphone are on page 140

QMPS

Panel Mounted Multifunctional Speaker



QMPS

Terminal box for wiring both power and sound pattern(Rear)

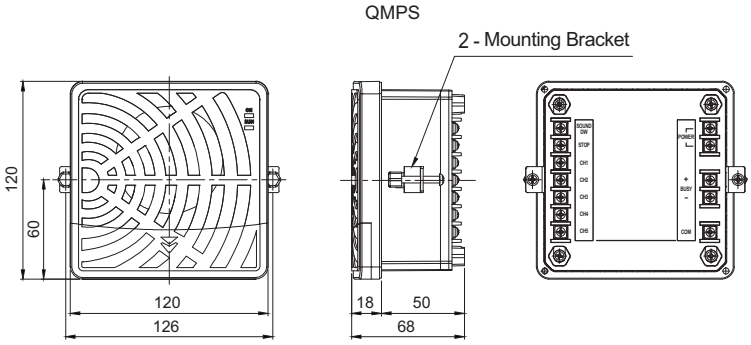
QMPS Max. 98dB, Panel Mounted Multifunctional Speaker

Model number	Voltage	Current	dB	Input Method/ No. of Ch	Certificate	Weight
QMPS	DC12V-24V	Max 0.750A	• Warning : 98dB • MP3 : 95dB	Bit Input : 5Ch Binary Input : 30Ch	CE DC only	0.35kg
	AC110V-220V	Max 0.100A			UL DC only	0.53kg

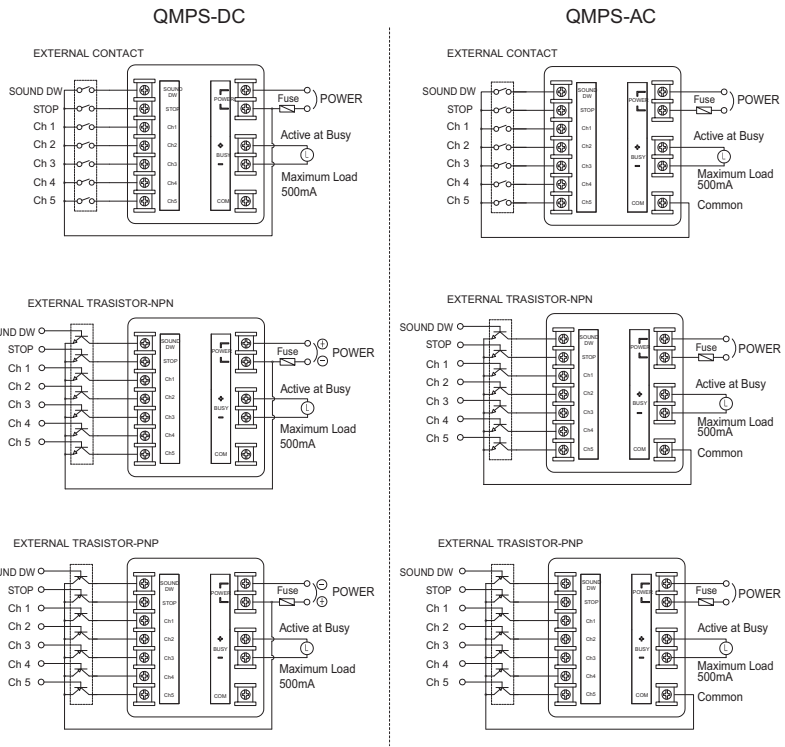
※ DC type model has a free-voltage range of DC10V-30V.
※ AC type model has a free-voltage range of AC100V-240V.

Technical Diagram

(Units : mm)



Wiring Instructions



• In case of bits input, 5 sound tones can be played. For Binary input, 30 sound tones can be played.

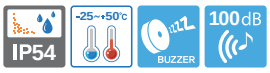
※ Please refer to page 140 for detailed channel input instructions.
(Wiring instruction is substituted for channel selection switch)

Ordering Specification

QMPS	-	12/24
[Model number]		[Voltage]
• QMPS		• 12/24-DC12V-24V • 110/220-AC110V-220V

S60ADH

Wall Mounted High Buzzer Horn



S60ADH

S60ADH Max 100dB, Wall Mounted Buzzer Horn

- Elegant wall mounted buzzer horn
- Horn resonance structure gives the product low power consumption and high sound tone
- Cone sound diffusion structure provides wide & excellent signal sound transmission effect
- Sound volume : Max 100dB at 1m
- Ambient operating temperature : -25°C to +50°C
- Protection rating : IP54
- Certificates : CE Compliant

Specification

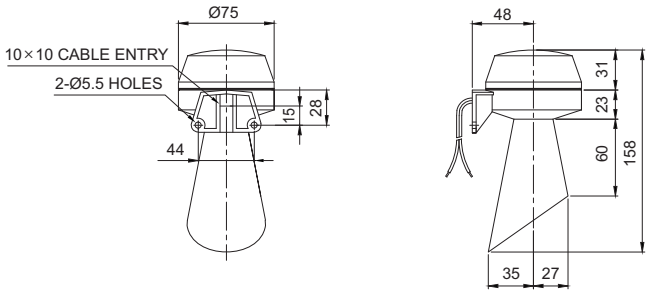
Model number	Pre-recorded Sound	Voltage	Current	Certificate	Weight
S60ADH	1 Buzzer tone	DC12V	0.083A	CE DC24V only	0.12kg
		DC24V	0.042A		0.12kg
		AC110V	0.016A		0.12kg
		AC220V	0.008A		0.12kg

Pre-recorded Sound	Sound Pattern	Channel	dB
1 Buzzer tone	Dududu(Consecutive)	Ch1	100dB

Technical Diagram

(Units : mm)

S60ADH



Customization

- 105dB strong buzzer type(Model number : S60ADH-HBZ)

Ordering Specification

S60ADH	-	220
[Model number]		[Voltage]
• S60ADH		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V

Wall mount multifunctional electric horn which supports 30 built-in sounds and 30 user defined sounds(MP3)

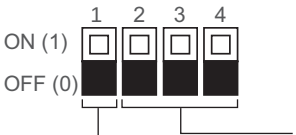
- **Bit input : 5Ch(6 groups)**
- **Binary input : 30Ch**
- **Support SDcard(MP3)**

Common Specifications(QAP80/ QAP100/ QAP125)

- Signal sound diffusing structure with wall mount supports 30 Built-in sounds and 30 user defined sounds
- Buzzer type siren horn supports Max 105dB
- Volume control and tone selector switches are installed inside the unit
- User has the ability to enter voice tones directly into the unit via MP3 files from the SDcard
- This product has 30 Built-in sounds via binary input mode or bit input mode
- Binary input mode allows the user to select from 30 different sound options with the tone selection switch
- Bit input mode is organized into 6 groups of 5 sound tones for a total of 30 sound tone options. Playback can be selected from one of the 5 tones in each group (MP3 file with bit input mode)
- Supports both SDcard and MP3(QAP100HC/QAP125HC)
- Materials : Housing-ABS, Resonance chamber-ABS
- Ambient operating temperature : -25°C to +50°C
- Protection rating : IP65
- Compliant with RoHS directive

Sound Selection Instruction for SDcard Type

You can select between pre-recorded sound mode and SDcard sound (MP3) mode with the SOUND selection switch No.1



Bit input mode selection from 6 groups

001: WS(5 Warning sounds)
010: WP(5 Special warning sounds 1st group)
011: WM(5 Melodies)
100: WA(5 Alarms)
101: WO(5 Special warning sounds 2nd group)
110: WN(5 Special warning sounds 3rd group)

Selection between pre-recorded sound mode and SDcard sound mode

0: Pre-recorded sound mode
1: SDcard sound mode

• Features

1. Switch for Sound selection
2. SDcard slot for MP3
3. Switch for play mode selection
4. Switch for volume adjustment

SDcard(MP3) Type

You can easily rearrage the sound playback and group arrangement with PC. Capacity is 32Gbyte.

※ SDcard sold separately.

- 30 pre-recorded sounds offered (5 warning sounds, 5 special warning sounds 1st group, 5 melodies, 5 alarms, 5 special warning sounds 2nd group, 5 special warning sounds 3rd group)
- External MP3 sound support (SDcard)
- Binary input : 30 channels
- Bit input: 5 channels (6 sound groups)
- A multi-functional product that can use an SDcard for MP3 playback
- Details on how to setup the multi-functional speakerphone are on page 140

QAP series

Electric Horn/ High Siren Buzzer Horn

- **Bit input : 5Ch(6 groups)**
- **Binary input : 30Ch**

QAP80H/ QAP80BZ

QAP80 does not support SDcard.

QAP series' buzzer and electric sound signal is rich and clear because of the way the resonance chamber amplifies the sound.

QAP80H Electric Horn, Wall Mount Type

- Built-in sound

Model number	Voltage	Current	Built-in Sound and dB	Certificate	Weight
QAP80H	DC12V-24V	Max 0.450A	• Bit Input : 5Ch • Binary Input : 30Ch • Warning : Max 100dB	-	0.51kg

※ DC type model has a free-voltage range of 10V-30V.
※ Please refer to page 141 for detailed sound pattern information.

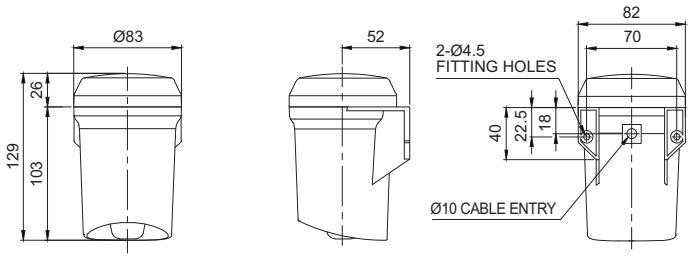
QAP80BZ High Siren Buzzer, Wall Mount Type

- Built-in high buzzer

Model number	Voltage	Current	Built-in Sound and dB	Certificate	Weight
QAP80BZ	DC12V	0.300A	• Buzzer Volume : Max 105dB	-	0.54kg
	DC24V	0.150A			0.59kg

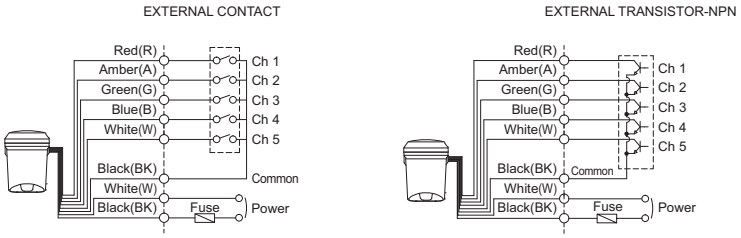
Technical Diagram (Units : mm)

QAP80H/ QAP80BZ



Wiring Instructions

QAP80H-DC



- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Signal line standard : UL1007 AWG22(0.3sq) 400mm
- Product can be wired regardless of polarity
- In case of bits input, 5 sound tones can be played. For Binary input, 30 sound tones can be played

※ Please refer to page 140 for detailed channel input instructions.
(Wiring instruction is substituted for channel selection switch.)

Ordering Specification

QAP80H	-	12/24
[Model number]		[Voltage]
• QAP80H		• 12/24-DC12V-24V
• QAP80BZ		• 12-DC12V • 24-DC24V

QAP series

Electric Horn/ High Siren Buzzer Horn

- **Bit input : 5Ch(6 groups)**
- **Binary input : 30Ch**
- **SDcard(MP3)**

QAP100H/ QAP100BZ

QAP series' buzzer and electric sound signal is rich and clear because of the way the resonance chamber amplifies the sound.

QAP100H Electric Horn, Wall Mount Type

• Built-in sound/ MP3

Model number	Voltage	Current	Built-in Sound and dB	Certificate	Weight
QAP100H	DC12V-24V	Max 0.800A	• Bit Input : 5Ch • Binary Input : 30Ch • Warning : Max 100dB • MP3 : Max 95dB	-	0.60kg
	AC110-220V	Max 0.290A			0.63kg

※ DC type model has a free-voltage range of 10V-30V.
※ AC type model has a free-voltage range of 100V-240V.
※ Please refer to page 141 for detailed sound pattern information.

QAP100BZ High Siren Buzzer, Wall Mount Type

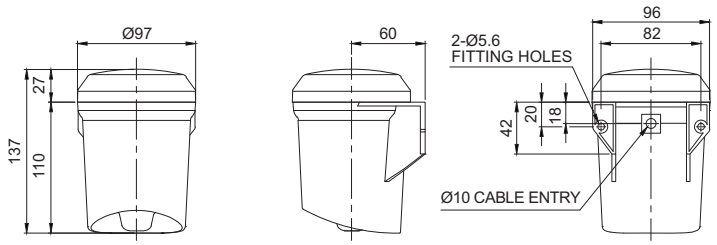
• Built-in high buzzer

Model number	Voltage	Current	Built-in Sound and dB	Certificate	Weight
QAP100BZ	DC12V	0.300A	• Buzzer Volume : Max 105dB	-	0.65kg
	DC24V	0.150A			
	AC110-220V	Max 0.033A			0.68kg

※ AC type model has a free-voltage range of 100V-240V.

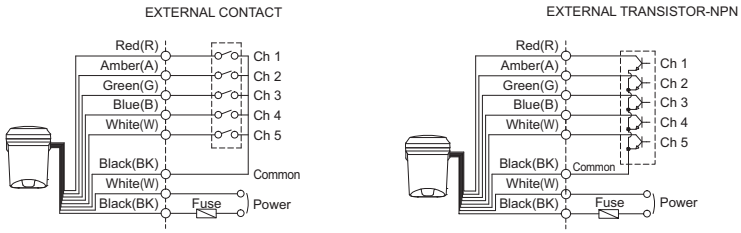
Technical Diagram (Units : mm)

QAP100H/ QAP100BZ



Wiring Instructions

QAP100H-DC/AC



- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Signal line standard : UL1007 AWG22(0.3sq) 400mm
- Product can be wired regardless of polarity
- In case of bits input, 5 sound tones can be played. For Binary input, 30 sound tones can be played

※ Please refer to page 140 for detailed channel input instructions.
(Wiring instruction is substituted for channel selection switch.)

Ordering Specification

QAP100H	-	110/220
[Model number]		[Voltage]
• QAP100H		• 12/24-DC12V-24V • 110/220-AC110V-220V
• QAP100BZ		• 12-DC12V • 24-DC24V • 110/220-AC110V-220V

QAP series

Electric Horn/ High Siren Buzzer Horn

- **Bit input : 5Ch(6 groups)**
- **Binary input : 30Ch**
- **SDcard(MP3)**

QAP125H/ QAP125BZ

QAP series' buzzer and electric sound signal is rich and clear because of the way the resonance chamber amplifies the sound.

QAP125H Electric Horn, Wall Mount Type

- Built-in sound/ MP3

Model number	Voltage	Current	Built-in Sound and dB	Certificate	Weight
QAP125H	DC12V-24V	Max 0.800A	• Bit Input : 5Ch • Binary Input : 30Ch • Warning : Max 115dB • MP3 : Max 100dB	-	0.70kg
	AC110-220V	Max 0.290A			0.73kg

※ DC type model has a free-voltage range of 10V-30V.
※ AC type model has a free-voltage range of 100V-240V.
※ Please refer to page 141 for detailed sound pattern information.

QAP125BZ High Siren Buzzer, Wall Mount Type

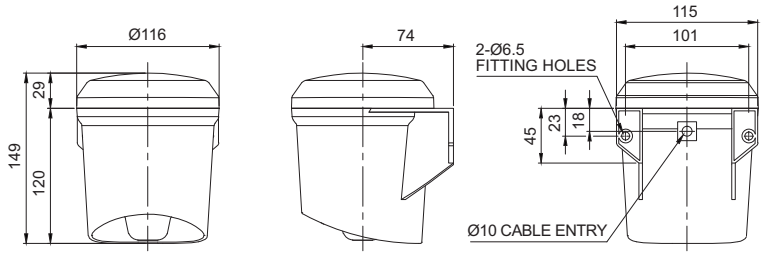
- Built-in high buzzer

Model number	Voltage	Current	Built-in Sound and dB	Certificate	Weight
QAP125BZ	DC12V	0.300A	• Buzzer Volume : Max 105dB	-	0.75kg
	DC24V	0.150A			
	AC110-220V	Max 0.033A			0.78kg

※ AC type model has a free-voltage range of 100V-240V.

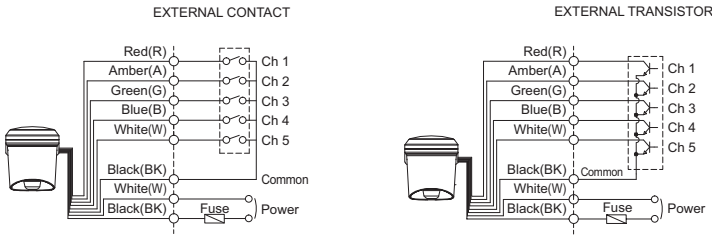
Technical Diagram (Units : mm)

QAP125H/ QAP125BZ



Wiring Instructions

QAP125H-DC/AC



- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Signal line standard : UL1007 AWG22(0.3sq) 400mm
- Product can be wired regardless of polarity
- In case of bits input, 5 sound tones can be played. For Binary input, 30 sound tones can be played

※ Please refer to page 140 for detailed channel input instructions.
(Wiring instruction is substituted for channel selection switch.)

Ordering Specification

QAP125H	-	110/220
[Model number]		[Voltage]
• QAP125H		• 12/24-DC12V-24V • 110/220-AC110V-220V
• QAP125BZ		• 12-DC12V • 24-DC24V • 110/220-AC110V-220V

SRN/ SEN15/ SEN25

General Electric Horns

IP55 | -25~+50°C | HORN | 108dB | 115dB | NPN

108dB

SRN

108dB

SEN15

115dB

SEN25

Common Specifications(SRN/ SEN15/ SEN25)

- Cost effective model with high signal sound
- A variety of sound selections between warning sounds, alarm sounds, melodies and voice messages to fit your sophisticated application needs
- User defined voice signal type(WV) shall be provided upon request
- Can adjust sound volume with the switch built inside the unit
- Materials : Housing-ABS(Standard Color : Red)
- Ambient operating temperature : -25°C to +50°C
- Protection rating : IP55
- Certificates : CE Compliant

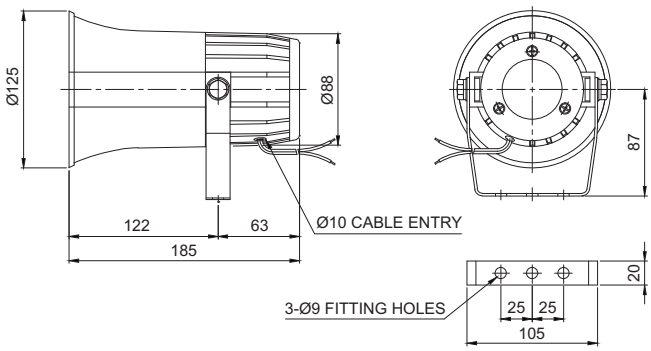
SRN Max 108dB

Model number	Built-in Sound		dB	Voltage	Current	Certificate	Weight
SRN	WS	5 Warnings	108dB	DC12V DC24V AC110V AC220V	0.322A 0.233A 0.073A 0.036A	CE DC only	DC-0.72kg AC-0.98kg
	WM	5 Melodies	108dB				
	WA	5 Alarms	105dB				
	WV	5 Voices	98dB				

Technical Diagram

(Units : mm)

SRN



SEN15 Max 108dB

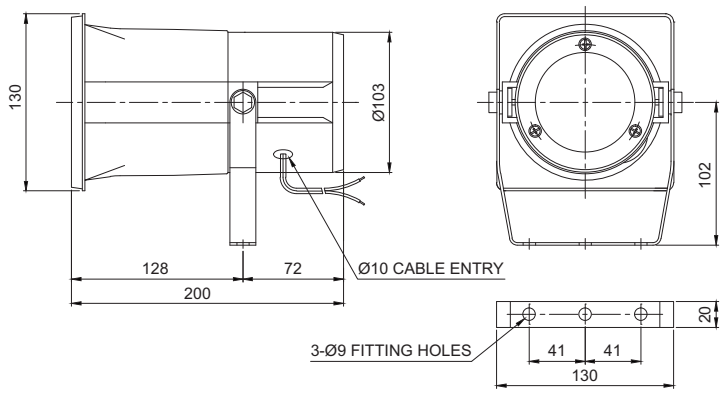
Model number	Built-in Sound		dB	Voltage	Current	Certificate	Weight
SEN15	WS	5 Warnings	108dB	DC12V DC24V AC110V AC220V	0.366A 0.266A 0.077A 0.038A	CE DC only	DC-0.76kg AC-1.03kg
	WM	5 Melodies	108dB				
	WA	5 Alarms	105dB				
	WV	5 Voices	98dB				

SEN25 Max 115dB

Model number	Built-in Sound		dB	Voltage	Current	Certificate	Weight
SEN25	WS	5 Warnings	115dB	DC12V DC24V AC110V AC220V	2.211A 1.022A 0.226A 0.113A	CE DC only	DC-0.95kg AC-1.23kg
	WM	5 Melodies	115dB				
	WA	5 Alarms	113dB				
	WV	5 Voices	108dB				

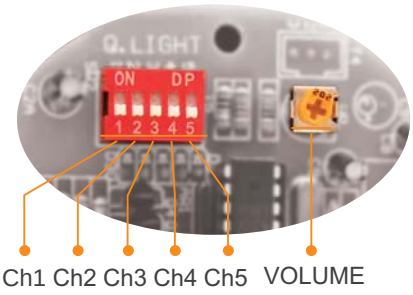
Technical Diagram (Units : mm)

SEN15/ SEN25



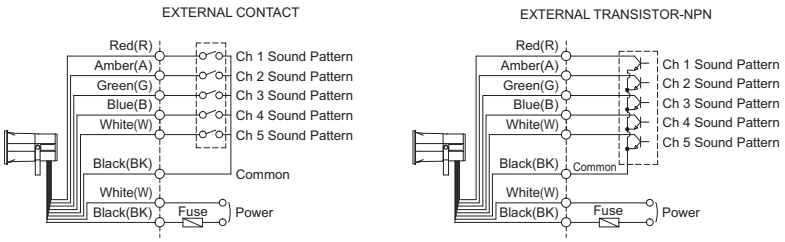
Sound Selection and Wiring Instructions

- Standard : Internal switch
- Internal switch allows to choose sound pattern for SRN/SEN15/SEN25 models



- External Power Line, Threading type : Standard VCTF(0.75sq×2C)×400mm
- LC type signal line : UL1007 AWG22(0.3sq) 400mm
- Product can be wired regardless of polarity

SRN/ SEN15/ SEN25-DC/AC



Customization

- Customized type: Select using the external contact(LC)
- You can select the audible sound pattern using external contacts or transistor with a customized external sound line(Model number : -LC)

Ordering Specification

SRN	-	WS	-	220	-	LC
[Model number]		[Sound]		[Voltage]		[Sound selection]
• SRN • SEN15 • SEN25		• WS-5 Warnings • WM-5 Melodies • WA-5 Alarms • WV-5 Voices		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• None - Internal Switch • LC - External Contact

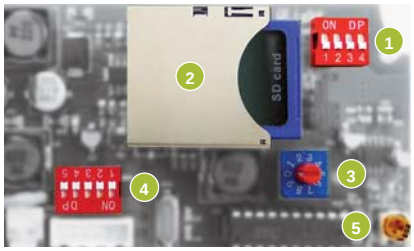
SMP series

Self Stand Multi-Functional Electric Horns

123dB

SMP35/ SMP50

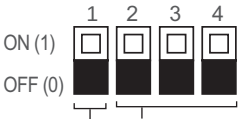
Channel Input Type of Multifunctional Product



1. Switch for sound pattern selection
2. SDcard slot for MP3
3. Switch for play mode selection
4. Switch for channel selection
5. Switch for volume adjustment

Switch for Sound

- Switch No1. allows choosing one option between pre-recorded sound and SDcard



Bit input mode selection from 6 groups

001: WS(5 Warning sounds)
010: WP(5 Special warning sounds 1st group)
011: WM(5 Melodies)
100: WA(5 Alarms)
101: WO(5 Special warning sounds 2nd group)
110: WN(5 Special warning sounds 3rd group)

Selection between pre-recorded sound mode and SDcard sound mode
0: pre-recorded sound mode
1: SDcard sound mode

- 30 pre-recorded sounds offered (5 warning sounds, 5 special warning sounds 1st group, 5 melodies, 5 alarms, 5 special warning sounds 2nd group, 5 special warning sounds 3rd group)
- External MP3 sound support (SDcard)
- Binary input : 30 Channels
- Bit input : 5 Channels (6 sound groups)
- A multi-functional product that can use an SDcard for MP3 playback
- Details on how to setup the multi-functional speakerphone are on page 140

Common Specifications(SMP35/ SMP50)

- Can prevent cross talk of different voice environments by selecting an audio signal fit for the specific environment and condition
- 30 pre-recorded sound type and supports Binary input mode and Bit input mode
- Binary input mode can playback 30 sound tones by using sound tone select switch
- Volume adjustment and sound selection switches located inside the unit. SDcard in the unit offers convenient operation
- SDcard type allows the user to input the proper voice messages for specific operating conditions
- Support MP3 file and user can input user defined sound
- Tightly sealed structure that blocks dust with IP65 protection rating- suitable for outdoor installation
- Materials : Housing-ABS, Resonance chamber-ABS, Bracket-STS
- Ambient operating temperature : -25°C to +50°C
- Protection rating: IP65
- Compliant with RoHS directive

SMP35 Multifunctional Self Stand Type Electric Signal Horn(Supports Warning Sound/ MP3)

- Volume : Max 115dB at 1m

Model number	Voltage	Current	Built-in Sound and dB	Certificate	Weight	Weight
SMP35	DC12V-24V	Max 0.800A	• Warning : 115dB • MP3 : 113dB	Bit Input : 5Ch Binary Input : 30Ch	-	0.76kg
	AC110V-220V	Max 0.290A				1.03kg

※ DC type model has a free-voltage range of 10V-30V.
※ AC type model has a free-voltage range of 100V-240V.

SMP50 Multifunctional Self Stand Type Electric Signal Horn(Supports Warning Sound/ MP3)

- Powerful 50W unit can generate high signal sound
- Volume : Max 123dB at 1m

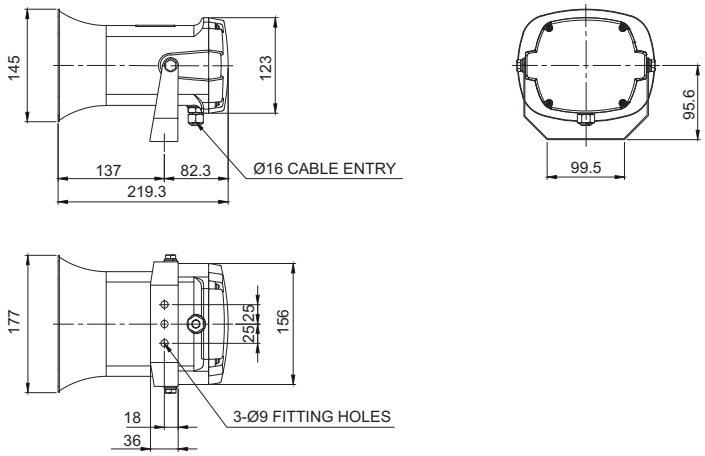
Model number	Voltage	Current	Built-in Sound and dB	Certificate	Weight	Weight
SMP50	DC12V	1.800A	• Warning : 123dB • MP3 : 118dB	Bit Input : 5Ch Binary Input : 30Ch	-	0.95kg
	DC24V	1.000A				
	AC110V-220V	Max 0.600A				1.23kg

※ AC type model has a free-voltage range of 100V-240V.

Technical Diagram

(Units : mm)

SMP35/ SMP50



SMP series

Self Stand Multi-Functional Electric Horns

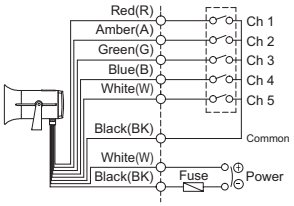
	Category	Ch	Sound
WS	5 Warning Sounds	Ch1	Fire.A-ANG
		Ch2	Emergency WA-U(Yelp)
		Ch3	Ambulance PI-PO(Hi-low)
		Ch4	Machinery Fault
		Ch5	High Expansion
WP	5 Special Warning Sounds (1st group)	Ch1	Fire.A-ANG
		Ch2	Abandon Alarm
		Ch3	Machinery Fault
		Ch4	High Expansion
		Ch5	7 Short PI. / 1 Long
WM	5 Melodies	Ch1	Sweet Home
		Ch2	For Elise
		Ch3	Cuckoo's Waltz
		Ch4	Piano Sonata
		Ch5	Turkish March
WA	5 Alarms	Ch1	Beep Intermittent
		Ch2	Door Chime
		Ch3	Phone Ring
		Ch4	PI.PI.PI Short
		Ch5	Tripping Beat
WO	5 Special Warning Sounds (2nd group)	Ch1	Phone Ring
		Ch2	Police
		Ch3	Emergency
		Ch4	Phone Ring 2
		Ch5	911 siren
WN	5 Special Warning Sounds (3rd group)	Ch1	Do-ong Do-ong
		Ch2	Di- Di-
		Ch3	PI.PI.PI long
		Ch4	Li long Li long
		Ch5	Siren

Sound Selection and Wiring Instructions

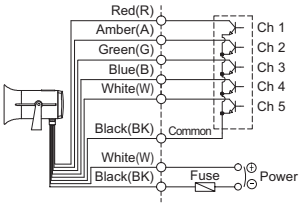
- Standard : Select using the switch inside of the unit
- Customized wiring in case of external contact or transistor wiring type as sound tone selector (Model name : -LC)

SMP35/ SMP50-DC/AC

EXTERNAL CONTACT



EXTERNAL TRANSISTOR-NPN



- DC type : Black output is negative(-)
- Channel selection, 5 sounds played for Bit input and 30 sound played for binary input

※ Please refer to page 140 for detailed channel input instructions.
(Wiring instruction is substituted for channel selection switch.)

Ordering Specifications

SMP50	-	110/220	-	LC
[Model number]		[Voltage]		[Sound selection]
• SMP35		• 12/24-DC12V-24V • 110/220-AC110V-220V		• Standard - Built-in Switch • LC - External contact
• SMP50		• 12-DC12V • 24-DC24V • 110/220-AC110V-220V		

SN-1

Small Size Electric Horn

IP55 | -25~+50℃ | HORN | 100dB

SN-1

Ordering Specification

SN-1	-	12
[Model number]		[Voltage]
• SN-1		• 12-DC12V • 24-DC24V

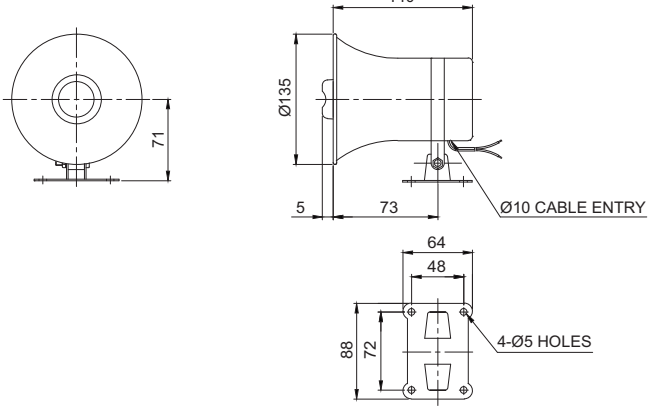
SN-1 Max 100dB

- 1 warning sound and cost effective model for DC only

Technical Diagram

(Units : mm)

SN-1



Wall mount electric horn that offers 31 pre-recorded warning sounds and 30 user selected sound messages

- Bit input offers 5 channels with 6 sound outputs
- Binary input offers 31 sound outputs and SD Card (MP3) combination

• Sound Selection and Volume Adjustment Instructions

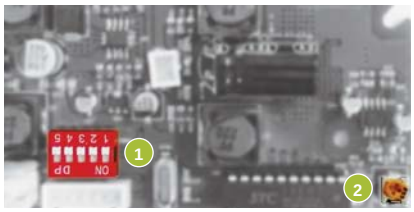
QWH series has control switches inside the unit for sound selection and volume adjustment. You can play customized sound message(MP3) with SD Card.

QWH series Product Category	
QWH35	Standard pre-recorded sound type
QWH35SD	SD Card(MP3) type
QWH50	Standard pre-recorded sound type with high volume output
QWH50SD	SD Card (MP3)type with high volume output

Common Specifications(QWH35/ QWH35SD/ QWH50/ QWH50SD)

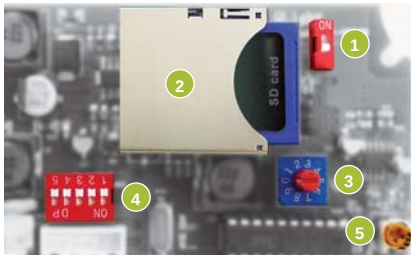
- Signal fit for the specific environment and condition.
- Options to select between 31 special warning sounds included in the pre-recorded sound type and SD Card(MP3) type
- Volume adjustment and sound selection switches located inside the unit. SD Card in the unit offers convenient operation.
- SD Card type allows the user to input the proper voice messages for specific operating conditions.
- The SD Card type 31 Special alarms built in which includes the voice alert from the SD Card (MP3). 31 special warning sounds are built both in pre-recorded sound type and SD Card type
- Offers both Binary and Bit input mode options (only the SD Card type has the bit input)
- Tightly sealed structure that blocks water and dust with IP66 protection rating suitable for outdoor installation
- Cable entry : PG 13.5
- Materials : Horn-PC, Housing-PC+ABS
- Ambient operating temperature : -30°C to +50°C(Standard type)
  -30°C to +50°C(SD Card type)
- Protection rating : IP66
- Certificates : CE Compliant
- Compliant with RoHS directive

Pre-recorded sound type



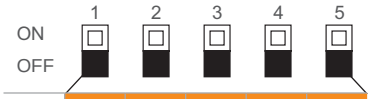
1. Switch for channel selection
2. Switch for volume adjustment

SD Card (MP3) type



1. Switch for sound pattern selection
2. SD Card slot for MP3
3. Switch for play mode selection
4. Switch for channel selection
5. Switch for volume adjustment

The input method of built-in sound type



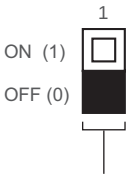
No.	1	2	3	4	5
0	0	0	0	0	0
1	0	0	0	0	1
2	0	0	0	1	0
:	:	:	:	:	:
31	1	1	1	1	1

Select from 31 pre-recorded output sound options by using a combination of the 5 channel input switches.

The binary input method allows you to express each of the 31 alarm sound signals with a ″0″or ″1″by switching the 5 channels on and off as shown in the table.

Sound selection instruction for SD Card type

You can select between pre-recorded sound mode and SD Card sound (MP3) mode with the SOUND selection switch.



Selection between pre-recorded sound mode and SD Card sound mode
0 : pre-recorded sound mode
1 : SD Card sound mode

- 31 built-in alarm sounds and special sound
- Supports SD Cards for external sound (MP3)
- Binary Input : 31Ch
- Bit Input : 5Ch(SD Card only)
- A versatile product that can play MP3 files via the SD card
- For detailed setup instructions, please see page 138 for the special beep-type products.
- Channel 1 is set as the factory default

QWH series

Wall Mount Electric Horn with Pre-recorded Special Warning Sound

115dB

QWH35 series

123dB

QWH50 series

QWH35 Wall Mount Electric Horn MP3(SD Card) with Pre-recorded Special Warning Sound

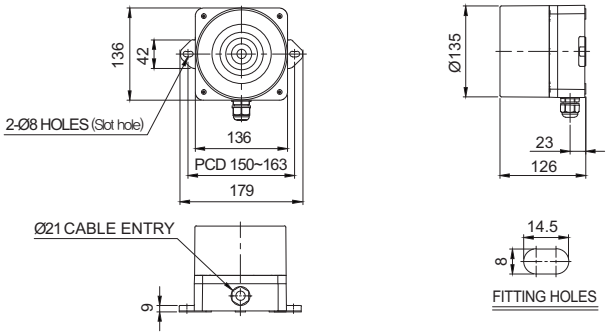
Model number	Voltage	Current	Volume	Binary input/ Channels	Certificates	Weight
QWH35	DC12V-24V AC110V-220V	Max 0.800A Max 0.290A	• Special warning sound : 115dB • MP3 sound : 113dB	Binary Input : 31Ch	CE DC Only	0.9kg
QWH35SD				Bit Input : 5Ch (SD Card only) Binary Input : 31Ch		

※ DC type model has a free-voltage range of 10V-30V.
※ AC type model has a free-voltage range of 100V-240V.

Technical Diagram

(Units : mm)

QWH35



QWH50 Wall Mount Electric Horn MP3(SD Card) with Pre-recorded Special Warning Sounds

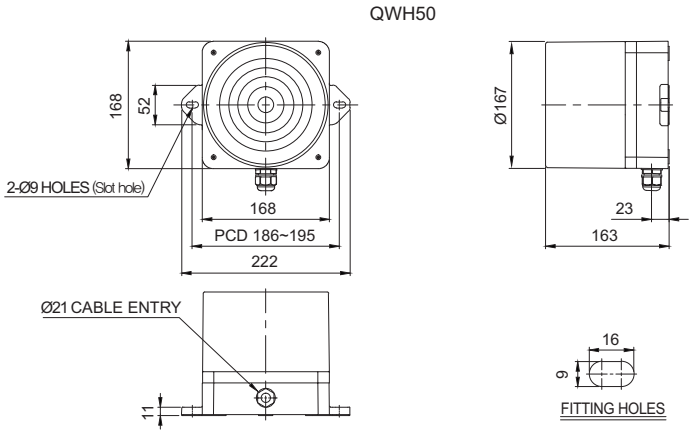
Model number	Voltage	Current	Volume	Binary input /Channels	Certificates	Weight
QWH50	DC12V DC24V AC110V-220V	Max 5.800A Max 0.600A	• Special warning sound : 123dB • MP3 sound : 118dB	Binary Input : 31Ch	CE DC Only	2.7kg
QWH50SD				Bit Input : 5Ch (SD Card only) Binary Input : 31Ch		

※ AC type model has a free-voltage range of 100V-240V.

Technical Diagram

(Units : mm)

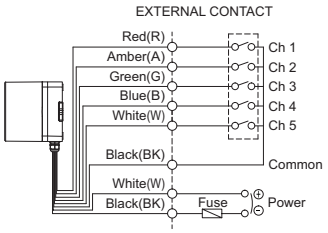
QWH50

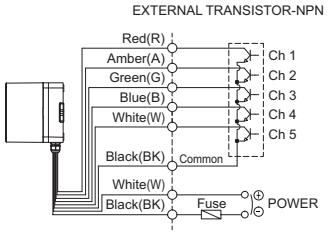


Sound Selection and Wiring Instructions

- Standard : Internal switch
- Customization : External contact(LC)

QWH35/ QWH50-DC/AC





- Channel selection, 5 sounds available with Bit input and 31 sound available with Binary input
- DC type : Black line is negative(-)

※ Please refer to Page 138 for channel input. (Wiring Instructions is changed to channel selection switches)

Customization

- External threading of sound selection signal line (Model number : -LC)

Ordering Specification

QWH50	-	110/220	-	LC
[Model number]		[Voltage]		[Sound selection]
• QWH35 • QWH35SD		• 12/24-DC12V-24V • 110/220-AC110V-220V		• Standard -Built-in Switch • LC -External contact
• QWH50 • QWH50SD		• 12-DC12V • 24-DC24V • 110/220-AC110V-220V		

SN/SEHN25

Electric Horns for Vessels and Heavy Industrial Applications

IP55 | -25~+50℃ | HORN | 105dB | 115dB | NPN

Steel Housing

105dB

SN

115dB

SEHN25

Common Specifications(SN/ SEHN25/ SEHN50)

- Steel housing provides excellent vibration and shock resistance under seismic conditions
- A variety of sound selections between warning sounds, alarm sounds, melodies and voice messages to fit your sophisticated application needs
- Can adjust sound volume with the switch built inside the unit
- Materials : Housing-Steel, Horn housing -Steel
- Housing standard color : Red
- Ambient operating temperature : -25°C to +50°C
- Protection rating : IP55, Suitable for outdoor installation
- Certificates : KIMM Compliant

SN Max 105dB, Self Stand Type

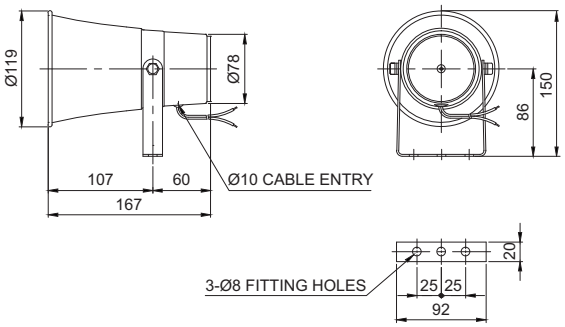
Model number	Sound pattern		Volume	Voltage / Current	Certificates	Weight
SN	WS	5 Warning sounds	105dB	DC12V / 0.266A DC24V / 0.211A AC110V / 0.062A AC220V / 0.031A	KIMM	DC-0.91kg AC-1.06kg
	WM	5 Melodies	105dB			
	WA	5 Alarms	103dB			
	WV	5 Customizable sounds	95dB			

※ Please refer to Page 136 for detailed information about selectable sound patterns.

Technical Diagram

(Units : mm)

SN



SEHN25 Max 115dB, Self Stand Type

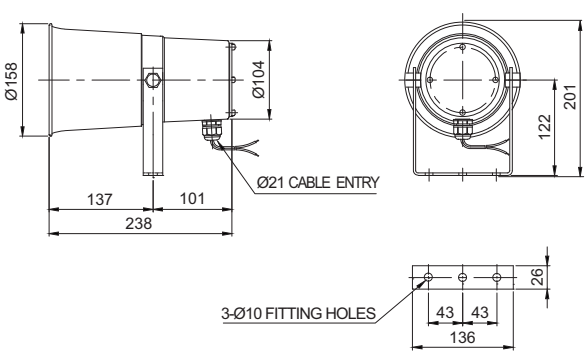
Model number	Sound pattern		Volume	Voltage / Current	Certificates	Weight
SEHN25	WS	5 Warning sounds	115dB	DC12V / 2.211A DC24V / 1.022A AC110V / 0.226A AC220V / 0.113A	KIMM	DC-2.26kg AC-2.48kg
	WM	5 Melodies	115dB			
	WA	5 Alarms	113dB			
	WV	5 Customizable sounds	108dB			

※ Please refer to Page 136 for detailed information about selectable sound patterns.

Technical Diagram

(Units : mm)

SEHN25



SEHN50

Electric Horns for Vessels and Heavy Industrial Applications

IP55 | -25~+50°C | HORN | 120dB | NPN

Steel Housing

120dB

SEHN50

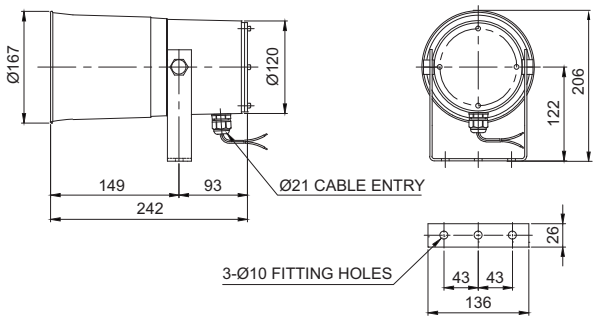
SEHN50 Max 120dB, Self Stand Type

Model number	Sound pattern		Volume	Voltage / Current	Certificates	Weight
SEHN50	WS	5 Warning sounds	120dB	DC12V / 2.440A DC24V / 1.186A AC110V / 0.244A AC220V / 0.122A	KIMM	DC-2.67kg AC-3.30kg
	WM	5 Melodies	120dB			
	WA	5 Alarms	118dB			
	WV	5 Customizable sounds	115dB			

※ Please refer to Page 136 for detailed information about selectable sound patterns.

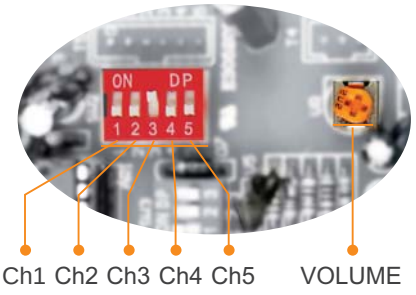
Technical Diagram (Units : mm)

SEHN50



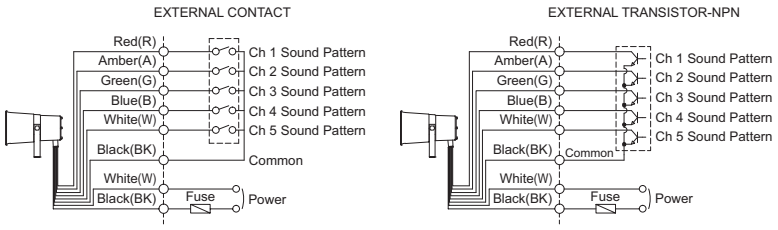
Sound Selection and Wiring Instructions

- Standard : Internal switch
- When each channel dip switch is on, a related sound will be played



- Customization : External contact(LC)

SN/ SEHN25/ SEHN50-DC/AC



- External power line standard : VCTF(0.75sq)×2C 400mm
- LC type signal line standard : UL1007 AWG22(0.3sq) 400mm
- Product can be wired regardless of polarity

Customization

- You can select the audible sound pattern using external contacts or transistor with a customized external sound line. (Model number : -LC)

Ordering Specification

SEHN25	-	WA	-	220	-	LC
[Model number]		[Sound]		[Voltage]		[Sound selection]
• SN • SEHN25 • SEHN50		• WS-Warning • WM-Melody • WA-Alarm • WV-Customizable sound		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• Standard -Built-in switch • LC -External contact

SM series

Motor Sirens

IP44 | -25~+50°C | MOTOR | 110dB | 116dB

110dB

SM30

116dB

SM40

⚠ Continuous operation rating time is 10 mins. Over 10 mins of continuous operation may cause motor damage. Please be careful.

Ordering Specification

SM30	-	24
[Model number]		[Voltage]
• SM30 • SM40		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V

SM30 Miniature Motor Siren

- Ø80mm compact structure with 110dB sound output
- Motor RPM : 10,000RPM
- Materials : Steel
- Power consumption : 40W
- Protection rating : IP 44
- Housing standard color : Red
- Insulation resistance : 100MΩ(at 500 VDC)
- Ambient operation temperature : -25°C to +50°C

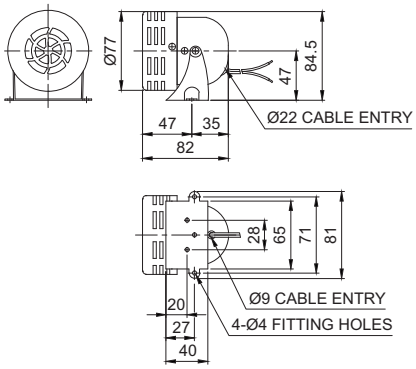
Specifications

Model number	Volume	Voltage	Current	Certificates	Weight	Rated time
SM30	110dB	DC12V	3.222A	-	0.22kg	10 min
		DC24V	1.779A		0.22kg	
		AC110V	1.333A		0.42kg	
		AC220V	1.000A		0.42kg	

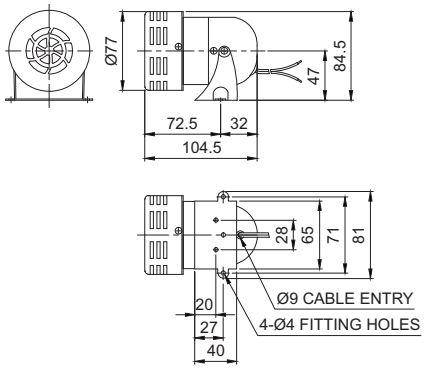
Technical Diagram

(Units : mm)

SM30-DC12/24



SM30-AC110/220



SM40 Miniature Motor Siren

- Ø100mm compact structure with 116dB sound output
- Motor RPM : 7,000RPM
- Materials : ABS
- Power consumption : 80W
- Protection rating : IP 44
- Housing standard color : Gray
- Insulation resistance : 100MΩ(at 500 VDC)
- Ambient operation temperature : -25°C to +50°C

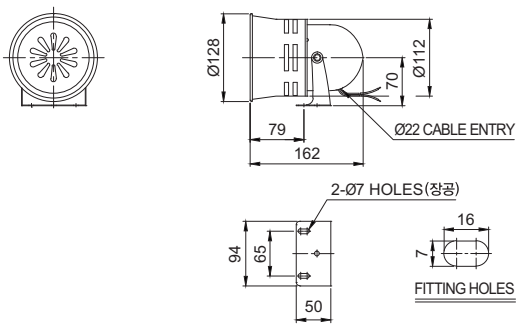
Specifications

Model number	Volume	Voltage	Current	Certificates	Weight	Rated time
SM40	116dB	DC12V	6.778A	-	0.53kg	10 min
		DC24V	3.666A		0.53kg	
		AC110V	1.000A		0.68kg	
		AC220V	0.722A		0.68kg	

Technical Diagram

(Units : mm)

SM40



SM series

Motor Sirens

IP44 | -25~+50°C | MOTOR | 120dB | 123dB

120dB

SM200

123dB

SM400

SM200 120dB Heavy-Duty Motor Siren

- Excellent durability and high volume are suitable for noisy environment
- Motor RPM : 7,200RPM
- Housing standard color : Red
- Materials : Steel/Al
- Insulation resistance : 100MΩ(at 500 VDC)
- Ambient operation temperature : -25°C to +50°C
- Protection rating : IP 44
- Certificates : CE Compliant

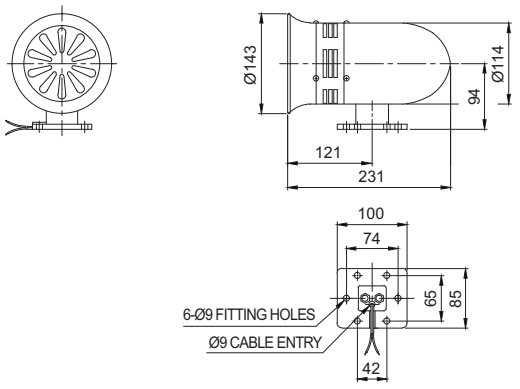
Specifications

Model number	Volume	Voltage	Current	Certificates	Weight	Rated time
SM200	120dB	DC24V	7.820A	CE	2.19kg	10 min
		AC110V	2.105A	-	2.55kg	
		AC220V	1.005A		2.55kg	

Technical Diagram

(Units : mm)

SM200



SM400 Sound 123dB Heavy-Duty Motor Siren

- 123dB high volume model suitable for long-distance audible signal in noisy environments
- Motor RPM : 7,600RPM
- Housing standard color : Red
- Materials : Steel/ABS
- Insulation resistance : 100MΩ(at 500 VDC)
- Ambient operation temperature : -25°C to +50°C
- Protection rating : IP 44

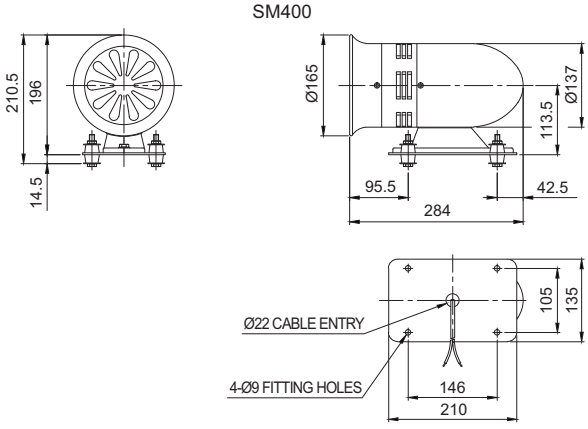
Specifications

Model number	Volume	Voltage	Current	Certificates	Weight	Rated time
SM400	123dB	DC24V	12.000A	-	3.19kg	3 min
		AC110V	6.300A		3.75kg	
		AC220V	3.800A		3.75kg	

Technical Diagram

(Units : mm)

SM400



Continuous operation rating time of SM400 is 3 mins. Over 3 mins of continuous operation may cause damage to the motor. Please be careful.

Ordering Specification

SM200	-	24
[Model number]		[Voltage]
• SM200 • SM400		• 24-DC24V • 110-AC110V • 220-AC220V

SAB series

Alarm Bells with Lamp Attached for Vessels and Heavy Industrial Applications

IP56 | -25~+50°C | BELL | 95dB

SAB130
-Bell housing Ø130mm

SAB200
-Bell housing Ø200mm

SAB130

SAB200

SAB130/ SAB200 Max 95dB

- Electric solenoid bell system provides excellent durability to vibration and shock for vessels and large facilities
- Special material for bell housing provides clear and crisp alarm sound
- Excellent vibration and shock resistant structure for superior durability
- Easy wiring and maintenance with terminal box attached
- Lamp attached provides visual signals
- Bell and lamp operation is synchronized. Each function can also operate separately
- Sound volume : Max 95dB at 1m
- Standard color : Housing-beige, Bell/ Lamp-Red
- Materials : Bell-Steel, Housing-ABS
- Ambient operating temperature : -25°C to +50°C
- Protection rating : IP56
- Cable entry : PG19

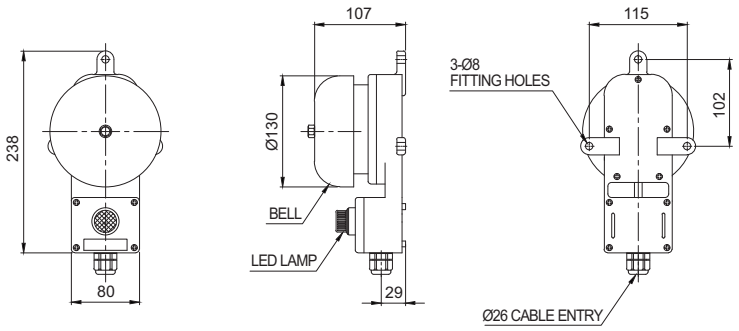
Specifications

Model number	Frequency	Volume	Bell diameter	Voltage	Current	Certificates	Weight	Bell/ Lamp color
SAB130	400-600Hz	95dB	130mm	DC24V	1.100A	-	1.88kg	● R-Red
				AC110V	0.350A			
SAB200			200mm	AC220V	0.300A		2.00kg	

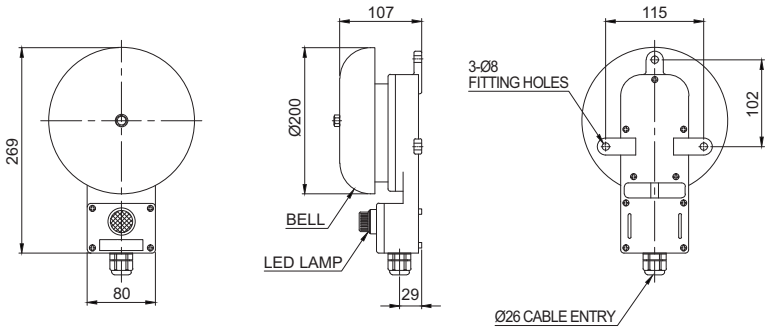
Technical Diagram

(Units : mm)

SAB130



SAB200



Customization

- Two way cable entries with PG19

Ordering Specification

SAB200	-	110	-	CG
[Model number]		[Voltage]		[Cable gland]
• SAB130 • SAB200		• 24-DC24V • 110-AC110V • 220-AC220V		• Standard -Back wiring type • CG -Built-in cable gland type

Technical Certification

Qlight products are designed to meet strict quality and technical standards. Thus, the Qlight brand is widely recognized for its high quality and technical innovations from leading institutions around the world.

ISO International Organization for Standardization

Qlight quality assurance systems have been certified by ISO by applying the ISO 9001:2008, KS Q ISO 9001:2009 regulation.

IECEx International Explosion Proof Certification (IECEx)

Certified that Qlight's products are being manufactured and manage according to international standards.

ATEX The European Regulatory Framework or Manufacture, Installation and Use of Equipment in Explosive Atmospheres

Qlight explosion proof products comply with ATEX Directives 94/9/EC.

NEPSI National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation

Qlight's design and manufacturing system meets the People's Republic of China National explosion proof Standard.
(Chinese Standard-GB3836/GB12476)

KGS Korea Gas Safety Corporation

Approved from "Korea Gas Safety Corporation" that Qlight's design and manufacturing system meets the standard of KGS.

KOSHA Korea Occupational Safety and Health Agency

Approved by the "Korea Occupational Safety and Health Agency" that Qlight's design and manufacturing system meets the standard of KOSHA.

ABS American Bureau of Shipping

Qlights design and quality assurance system has been certified by the American Bureau of Shipping.

LR Lloyd's Register

Qlight design and quality assurance system has been certified from Lloyd's Register.

CCS China Classification Society

Qlight design and quality assurance system has been certified by the China Classification Society.

RMRS Russian Maritime Register of Shipping

Qlight design and quality assurance system has been certified from Russian Maritime Register of Shipping.

KR Korean Register of Shipping

Qlight design and quality assurance system has been certified by the Korean Register of Shipping.

CE European Commission

Qlight has been certified by the European Commission.

UL Underwriters Laboratories

Qlight design and quality assurance system has been certified from UL to ensure the stability of consumption goods and to protect consumers.

KC Korea Safety Certification

Qlight products are certified by KC for preventing accident caused by fire.

CCC China Compulsory Certificate

Qlight has obtained CCC which guarantees safety, protection against fraud, environment, etc.

ICAO International Civil Aviation Organization

Qlight guarantees our products satisfy the criteria regulated by the International Civil Aviation Organization(ICAO, FAA).

E-mark Commission Directive Regarding Vehicle Industry

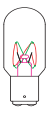
Qlight has obtained EU mark for approved vehicles and vehicle components sold into the EU(EEA : European Economic Area)

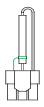
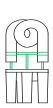
RoHS Restriction of Hazardous Substances Directive

Qlight complies with the Restriction of Hazardous Substances Directive by limiting its use of hazardous materials.

Bulb Specification

The table below summarizes bulb specifications that are equipped with Qlight's products. Please carefully review the bulb specification in case bulb replacement is needed. Otherwise it may cause part malfunction.

Layout	Part#	Feature	Spec	Voltage	Current	Product
	1	14V 5W	G14 9S	12V	0.357A	S50, ST45
	2	27V 5W	G14 9S	24V	0.185A	
	3	120V 5W	T16×28 9S	110V	0.042A	S50, ST45
	4	240V 5W	T16×28 9S	220V	0.021A	
	5	14V 5W	T16×35 15S	12V	0.357A	S60 S80, SR SJ, SJD
	6	27V 5W	T16×35 15S	24V	0.185A	
	7	120V 5W	T16×35 15D	110V	0.042A	S60
	8	240V 5W	T16×35 15D	220V	0.021A	
	9	14V 10W	T16×35 15S	12V	0.714A	S100 S125 SE ST56 ST80
	10	27V 10W	T16×35 15S	24V	0.370A	
	11	52V 10W	T16×35 15S	48V	0.192A	
	12	120V 10W	T16×35 15S	110V	0.083A	S100 S125 ST56 ST80
	13	240V 10W	T16×35 15S	220V	0.042A	
	14	52V 10W	T16×35 15D	48V	0.192A	S100E S125E
	15	120V 10W	T16×35 15D	110V	0.083A	
	16	240V 10W	T16×35 15D	220V	0.042A	
	17	14V 15W	G23 15S	12V	1.071A	SK S150, SH1 SH2, SED SD, SHD SHD2 SMD, SESA SEBA, SEA
	18	27V 15W	G23 15S	24V	0.556A	
	19	52V 15W	G23 15S	48V	0.288A	
	20	120V 15W	G23 15S	110V	0.125A	
	21	240V 15W	G23 15S	220V	0.063A	
	22	120V 15W	G23 15D	110V	0.125A	S150, SH1 SH2, SED SD, SHD SHD2 SMD, SESA SEBA, SEA
	23	240V 15W	G23 15D	220V	0.063A	
	24	12V 23W	S25 15S	12V	1.916A	S150, SH2 SD, SMD SESA SEBA, SEA
	25	24V 23W	S25 15S	24V	0.958A	
	26	52V 25W	T23×62 15D	48V	0.481A	S150, SH2 SD, SMD SESA SEBA, SEA
	27	120V 25W	T23×62 15D	110V	0.208A	
	28	240V 25W	T23×62 15D	220V	0.104A	
	29	14V 35W	RP35 15S	12V	2.500A	S180
	30	27V 35W	RP35 15S	24V	1.296A	

Layout	Part#	Feature	Spec	Voltage	Current	Product
	31	120V 35W	RP35 15S	110V	0.292A	S180
	32	240V 35W	RP35 15S	220V	0.146A	
	33	110V 60W	E26 ES	110V	0.545A	S150, SH2 SD, SMD SESA, SE SEBA, SEA
	34	220V 60W	E26 ES	220V	0.272A	
	35	12V 30W	A60 E26	12V	2.500A	S150, SH2 SD, SMD
	36	24V 60W	A60 E26	220V	2.500A	
	37	110V 60W	A60 E26	110V	0.545A	S150, SH2 SD, SMD
	38	220V 60W	A60 E26	220V	0.272A	
	39	14V 35W	15S Halogen	12V	2.500A	SKH
	40	27V 35W	15S Halogen	24V	1.296A	
	41	120V 35W	15D Halogen	110V	0.292A	S150, SH2 SD, SMD SESA, SE SEBA, SEA
	42	240V 35W	15D Halogen	220V	0.146A	
	43	14V 55W	15S Halogen	12V	3.929A	S150, SH2 SD, SMD SESA, SE SEBA, SEA
	44	27V 55W	15S Halogen	24V	2.037A	
	45	120V 55W	15D Halogen	110V	0.458A	S150, SH2 SD, SMD SESA, SE SEBA, SEA
	46	240V 55W	15D Halogen	220V	0.229A	
	47	220V -350V	BGA2120 -BBC I Type xenon lamp		4W	S80S, S80AS
	48	200V -550V	EUB0641 -1A(G) U Type xenon lamp		6W	S100S, S125S S150S, SJS SH1S, SH2S SEDS, SDS SHDS, SHD2S SMDS,SCDWS, SNE-S, SNES-S SESAS, SE-S SEBAS, SEAS ELMS, ELRS, ELPS
	49	280V -400V	BH0647(G) W Type xenon lamp		16W	S125HS, S150HS S180US, S180UHS SH1HS, SH2HS SEDHS, SDHS SHDHS, SHD2HS SMDHS SESAHS, SEAHS ELVS

Light Source of Warning Light/ Signal Light

SELECTION OF WARNING LIGHT

The selection of signaling devices will depend on the particular situation and environment.

- Whether the location of installation is dark or bright.
- Whether the signal transmission range should be short or long, or should have good visibility.
- Whether you need an economical but short lifetime product or upscale product with longer lifetime.
- Whether the environment is harsh with vibration and shock, or the environment is stable so that the life of the lights can be guaranteed.
- The selection of signaling device can be different depending on the situation and environment. The convenience and efficiency of maintenance should also be considered.

* Factors to consider in signal selection

1. Purpose 2. Signal transmission 3. Environment 4. Budget 5. Ease of maintenance

TYPE OF LIGHT SOURCE

Bulb

Light bulb is a light source that uses temperature reflection generated by the current flowing through the light bulb filament (thin line of metal), tungsten wire coil filament is often used. The hot filament is protected from oxidation with a glass sphere injected with inert gas (Argon gas, etc.). Typical characteristics of the gas injected bulb is described below.

1. If the input voltage decreases more than 10% of the rated voltage, the bulb life increases four times than before, and the power consumption is reduced by 85%.

2. On the other hand, If input voltage is 10% higher than the rated voltage, the life of the bulb is shortened by about 30% and the power consumption increases about 16%, and the brightness is increased by about 40%. The standard service life of a normal bulb is about 1,000 - 1,500 hours.

LED

The LED is a light emitting diode which emits light by injecting a current in the PN junction of the special semiconductor, semiconductors such as GaAs, GaP that Maximizes the electro-optical conversion effects are used. Like other semiconductors, over-voltage or ambient temperature affects the lifetime, but due to the absence of mechanical abrasion of the part, LED is shock/ vibration resistant so there is no need for proper seismic design. The standard service life of an LED is about 50,000 hours.

Xenon Lamp

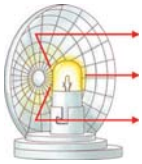
Xenon lamp is a flash type light source that emits bright light instantly by inserting high energy into the lamp. Compared with the steady type lamp, xenon lamps need a lot of input power instantly and a extremely large amount of light it is diffused.

The lamp is filled with xenon(Xe) gas due to the convenience of the production(choice of materials), its use, xenon lamp was named after the xenon gas that it uses. xenon lamps are also resistant to vibration due to its mounting method. In addition, it is visible even in bright environments not only because the spectacle distribution of the visible light is close to the sunlight, it uses the same method as the strobe of the camera.

Warning Light/ Indicator Light Operating Principle

Bulb Steady/ Flashing Type

- Highly diffusible light bulb that refracts light though a special lens and can be used in a steady or flashing state



Bulb Revolving Type

- By combining a highly diffusible light bulb and a reflector, light is reflected in a parallel beam with a rotating cycle
- Our bulb revolving model has a long lifetime enabled by using a high durability bulb and a power transfer system that minimizes noise and abrasion

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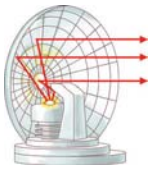
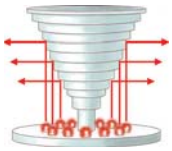


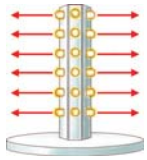
LED Revolving Type

- The combination of an LED and a reflector creates a parallel light beam with a rotating cycle
- Our LED revolving model is patented for emitting light with the same level of uniformity and brightness compared to the bulb reflecting type



LED Steady/ Flashing Type

- The indirect light distribution system uses a special structure to radiate a uniform light signal throughout the entire body of the lens by using a multi-stage reflector
- The direct light distribution system uses a high-intensity LED light and diffusion lens to transfer signal over a long distance. Qlight LED lights / flashing lights are equipped with two structures depending on the model type, Steady or Flashing Type



LED Strobe-Type

- By shortening the LED flashing period and supplying the maximum current to the LED, It produces a flash effect just like the xenon lamp

LED Simulated Revolving Type

- By uniformly arranging the LED lens in a 360 degree circumferential direction, it will produce a flash in a regular rotating sequence
- The visual effect looks just the same as the revolving model

---

Xenon Lamp Strobe-Type

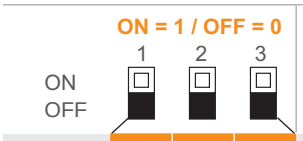
- The strobe type model uses a xenon lamp that instantly emits a high brightness light by supplying large energy
- Requires more power than other flashing type models, and the flash is brighter in comparison
- Has excellent vibration resistance compared to regular light bulbs but is not superior to LEDs
- Can spread strong light signals in all directions because of the light projecting structure

Pre-recorded Sound Tone and Sound Combination Chart

■ 20 pre-recorded sound tones for standard type products

Sound Number	Sound Tone	Sound Number	Sound Tone
SND01	Fire.A-ANG	SND11	Piano Sonata
SND02	Emergency WA-U(Yelp)	SND12	Turkish March
SND03	Ambulance PI-PO(Hi-low)	SND13	Magic Flute
SND04	Abandon Alarm	SND14	Badinerie
SND05	Machinery Fault	SND15	Pine Apple Rag
SND06	High Expansion	SND16	Beep Intermittent
SND07	7 Short PI. / 1 Long	SND17	Door Chime
SND08	Sweet Home	SND18	Phone Ring
SND09	For Elise	SND19	PI.PI.PI Short
SND10	Cuckoo's Waltz	SND20	Tripping Beat

• Standard sound combination for WS/ WP type products

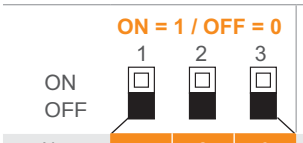


7 sounds per combination can be selected according to your preference.
8 combinations are available.

No.	1	2	3	Ch1	Ch2	Ch3	Ch4	Ch5
1	1	0	0	SND01 Fire.A-ANG	SND02 Emergency WA-U	SND03 Ambulance PI-PO	SND05 Machinery Fault	SND06 High Expansion
2	0	1	0	SND01 Fire.A-ANG	SND04 Abandon Alarm	SND05 Machinery Fault	SND06 High Expansion	SND07 7 Short PI. / 1 Long
3	1	1	0	SND01 Fire.A-ANG	SND02 Emergency WA-U	SND04 Abandon Alarm	SND05 Machinery Fault	SND06 High Expansion
4	0	0	1	SND01 Fire.A-ANG	SND03 Ambulance PI-PO	SND05 Machinery Fault	SND06 High Expansion	SND07 7 Short PI. / 1 Long
5	1	0	1	SND02 Emergency WA-U	SND03 Ambulance PI-PO	SND04 Abandon Alarm	SND05 Machinery Fault	SND06 High Expansion
6	0	1	1	SND01 Fire.A-ANG	SND02 Emergency WA-U	SND03 Ambulance PI-PO	SND04 Abandon Alarm	SND07 7 Short PI. / 1 Long
7	1	1	1	SND01 Fire.A-ANG	SND03 Ambulance PI-PO	SND04 Abandon Alarm	SND06 High Expansion	SND07 7 Short PI. / 1 Long
8	0	0	0	SND02 Emergency WA-U	SND03 Ambulance PI-PO	SND04 Abandon Alarm	SND05 Machinery Fault	SND07 7 Short PI. / 1 Long

※ You can select sound tones using the 3P switches located on the circuit board of the WS Type and WP Type products.

• Standard sound combination for WM/ WA type products



13 sounds per combination can be selected according to your preference.
8 combinations are available.

No.	1	2	3	Ch1	Ch2	Ch3	Ch4	Ch5
1	1	0	0	SND08 Sweet Home	SND09 For Elise	SND10 Cuckoo's Waltz	SND11 Piano Sonata	SND12 Turkish March
2	0	1	0	SND16 Beep Intermittent	SND17 Door Chime	SND18 Phone Ring	SND19 PI.PI.PI Short	SND20 Tripping Beat
3	1	1	0	SND08 Sweet Home	SND11 Piano Sonata	SND13 Magic Flute	SND17 Door Chime	SND19 PI.PI.PI Short
4	0	0	1	SND13 Magic Flute	SND14 Badinerie	SND15 Pine Apple Rag	SND08 Sweet Home	SND09 For Elise
5	1	0	1	SND10 Cuckoo's Waltz	SND11 Piano Sonata	SND17 Door Chime	SND18 Phone Ring	SND20 Tripping Beat
6	0	1	1	SND08 Sweet Home	SND12 Turkish March	SND16 Beep Intermittent	SND17 Door Chime	SND18 Phone Ring
7	1	1	1	SND08 Sweet Home	SND11 Piano Sonata	SND12 Turkish March	SND17 Door Chime	SND19 PI.PI.PI Short
8	0	0	0	SND11 Piano Sonata	SND12 Turkish March	SND13 Magic Flute	SND16 Beep Intermittent	SND18 Phone Ring

※ You can select sound tones using the 3P switches located on the circuit board of the WM Type and WA Type products.

Pre-recorded Sound Tone and Sound Combination Chart

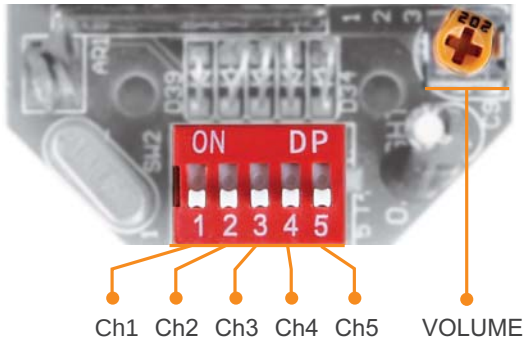
■ Sound tone combinations for standard type products

For standard type products, user can select from a variety of 5 pre-recorded sound combinations including 5 warning sounds, 5 special warning sounds, 5 melodies, 5 alarms, and 5 customizable sound.

	Sound Category	Channel	Sound Tone	Sound Combination #
WS	5 warning sounds	Ch1 Ch2 Ch3 Ch4 Ch5	Fire.A-ANG Emergency WA-U(Yelp) Ambulance PI-PO(Hi-low) Machinery Fault High Expansion	WS/ WP No.1
WP	5 special warning sounds	Ch1 Ch2 Ch3 Ch4 Ch5	Fire.A-ANG Abandon Alarm Machinery Fault High Expansion 7 Short PI. / 1 Long	WS/ WP No.2
WM	5 melodies	Ch1 Ch2 Ch3 Ch4 Ch5	Sweet Home For Elise Cuckoo's Waltz Piano Sonata Turkish March	WM/ WA No.1
WA	5 alarms	Ch1 Ch2 Ch3 Ch4 Ch5	Beep Intermittent Door Chime Phone Ring PI.PI.PI Short Tripping Beat	WM/ WA No.2
WV	5 customizable sound	Ch1 Ch2 Ch3 Ch4 Ch5	1. Voice messages are pre-recorded and provided from factory upon user's request 2. Each channel has recording space for 16 sec 3. 5 channels available 4. When only one channel is used, maximum recordable space is 80 sec	-

※ Please refer to page 136 for detailed information about selectable sound patterns.

■ **Sound Selection of Signal Sounds**



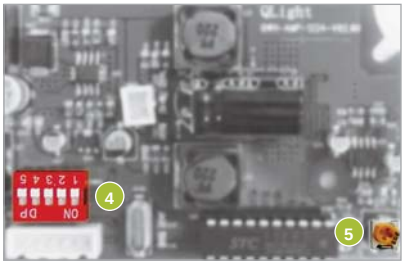
Standard specification : Use internal switches
Turn on dip switches of each channel, designated sound will be played.

Special Alarm Type Feature

■ How to set-up the special alarm type products

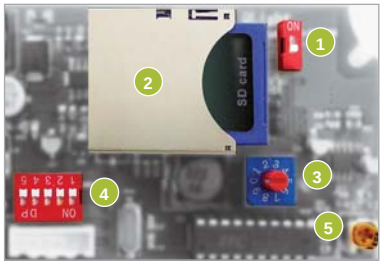
- A special alarm type products are classified into two models; basic model with special alarm and SDcard (MP3) model.
- The 2 models have 31 built-in sounds, which can be chosen and played by binary input method.
- When storing MP3 files on the SDcard (MP3) type models, you can select and play up to 31 sounds by using the binary input method. The bit input method can play 5 sound from #1 to #5, depending on the specifications given in the file name(For file specifications refer to Page140.)
- Includes eight play mode settings. For example, when the continuous playback setting/ function is selected the warning message is played continuously for conditions that require frequent playback.

■ Built-in sound type model



1 - 2 N/A
4 Sound select switch
5 Volume

■ SDcard type model



1 Sound setting switch
2 MP3 playable SDcard
3 Play mode setting switch
4 Sound select switch
5 Volume

* Built-in sound type model can select and play 31 sounds by using the sound selection switch.

■ SDcard(MP3) type product feature

1 SOUND setting switch

- If the switch is ON the SDcard (MP3) will be played, and if the switch is OFF the built-in sounds will be played.

2 SDcards

- The SDcard is a compact flash memory card for storing MP3 files.
- After saving the MP3 files in the SDcard with the specified format, insert the card into the SDcard slot and switch the sound setting switch to ON so the sounds can be played from the SDcard.

3 PLAY MODE setting switch

- PLAY MODE setting switch is used to choose the channel input method or select various playing modes. Refer to the table below for switch features.
- Switch #0 and #9 is not used.

1	Bit Input Mode	5 sounds can be played from the selected group (choose one group from six groups) Play sound only once (if using sequential signal input or pulse signal input)
2	Binary Input Mode	Up to 31 sounds available for each model. Plays sound only once (sequential signal input only)
3	Bit Input Hold Playback Mode	5 sounds can be played from the selected group (choose one group from six groups) The sound is repeated if the input signal is maintained. (sequential signal input only) If the STOP signal is inputted, the sound is turned off, and if the STOP signal is disabled the sound is played repeatedly
4	Binary Input Hold Playback Mode	Up to 31 sounds available for each model The sound is repeated if the input signal is maintained. (sequential signal input only) If the STOP signal is inputted, the sound is turned off, and if the STOP signal is disabled the sound is played repeatedly
5	Bit Input Sound Reduction Mode	5 sounds can be played from the selected group (choose one group from six groups) You can reduce the volume(15dB) by using a separate volume reduction signal line (same as volume reduction signal input)
6	Binary Input Sound Reduction Mode	Up to 31 sounds available for each model You can reduce the volume(15dB) by using a separate volume reduction signal line (same as volume reduction signal input)
7	Bit Input Sequence Memory Playback Mode	5 sounds can be played from the selected group (choose one group from six groups) If the sound is inputted in a order, it will remember the order and play each sound about 3 seconds. The last input channel is fully played (bit input mode only)
8	Test Mode	In test mode, Ch1 of group is automatically played back repeatedly. To end the test mode, switch back to the other modes.

4 Channel selection switch

- By using 5 channel selection switches, one can choose the appropriate sound source depending on the Binary input and Bit input.

5 VOLUME

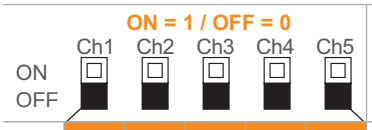
- You can adjust the speakers sound output by using the volume dial.

Sound Pattern and Combination for Special Alarm Type

■ Sound pattern for special alarm type

- Special alarm type product has 31 pre-recorded sound tones.
- Supports binary input mode. 5ch switch allows for 31 sound tones.

• Composition of binary input mode



Left channel switch allows for choosing 31 sound tones.
Channel switch will be substituted for an external wiring in case of LC type products.

No.	1	2	3	4	5	Sound tone	Frequency
0	0	0	0	0	0	No sound	
1	0	0	0	0	1	Rel rel rel	730Hz-920Hz
2	0	0	0	1	0	Slow Ambulance PI-PO	820Hz-1.05kHz
3	0	0	0	1	1	Oit Oit warning sound	360Hz-1.56kHz
4	0	0	1	0	0	Emergency WA-U(Yelp)	770Hz-1.2kHz
5	0	0	1	0	1	Pi- buzzer	770Hz
6	0	0	1	1	0	7 Short PI. / 1 Long	715Hz
7	0	0	1	1	1	Pi o Pi o	940Hz-2.19kHz
8	0	1	0	0	0	Phone Ring	740Hz-910Hz
9	0	1	0	0	1	Pi- buzzer	600Hz
10	0	1	0	1	0	Pi pi pi short	420Hz
11	0	1	0	1	1	Di o Di o 2 tones buzzer	600Hz-1.14kHz
12	0	1	1	0	0	Oit Oit warning sound	500Hz-1.11kHz
13	0	1	1	0	1	Slow Ambulance PI-PO	380Hz-470Hz
14	0	1	1	1	0	Slow Di o Di o	680Hz-840Hz
15	0	1	1	1	1	Fast Li o li o	380Hz-470Hz
16	1	0	0	0	0	Fire.A-ANG	770Hz-1.11kHz
17	1	0	0	0	1	Fast Ambulance PI-PO	680Hz-840Hz
18	1	0	0	1	0	Slow Ambulance PI-PO	650Hz-840Hz
19	1	0	0	1	1	Ri ro ri ro warning sound	420Hz-470Hz
20	1	0	1	0	0	Repeat Di-o 3 times	680Hz-840Hz
21	1	0	1	0	1	Fire.A-ANG	500Hz-1kHz
22	1	0	1	1	0	Ambulance PI-PO	680Hz-840Hz
23	1	0	1	1	1	Slow Fire.A-ANG	480Hz-1.14kHz
24	1	1	0	0	0	Pi-pi- buzzer low frequency	690Hz
25	1	1	0	0	1	Pi-pi- buzzer high frequency	950Hz
26	1	1	0	1	0	Di-di- buzzer high frequency	800Hz
27	1	1	0	1	1	Di-di- buzzer low frequency	500Hz
28	1	1	1	0	0	Rising Po-ong	500Hz-1.2kHz
29	1	1	1	0	1	Fast Ambulance PI-PO	825Hz-1.07kHz
30	1	1	1	1	0	Rising frequency	150Hz-1kHz
31	1	1	1	1	1	Repeat A-ANG	1.4kHz-1.56kHz

Multifunctional Type Feature

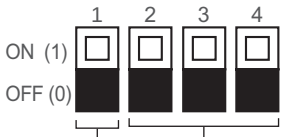
■ How to set up the multifunctional products(MP3)

- Multifunctional type products can play MP3 sounds by using an SDcard and can also play WS (5 Warning sounds), WP (5 special warning sounds 1st Group), WM (5 Melodies), WA (5 Alarms), WO (5 special warning sounds 2nd Group), and WN (5 special warning sounds 3rd Group) when not using a SDcard.
- Includes seven different functions. For example, it is able to playback the message continuously with the continuous play-back function for warning message that needs to be repeated often.

■ Function setting

1 Sound setting switch
2 MP3 playable SDcard
3 Play mode setting switch
4 Volume

1 Sound setting switch



Group Choice in Bit Input Mode
001 : WS (5 Warning sounds)
010 : WP (5 special warning sounds 1st Group)
011 : WM (5 Melodies)
100 : WA (5 Alarms)
101 : WO (5 special warning sounds 2nd Group)
110 : WN (5 special warning sounds 3rd Group)

Sound Selection
0 : Built-in sound
1 : SDcard(MP3)

- #1 switch from the sound setting switch is for selecting Built-in sound/ SDcard
- #2 – #4 switch is for selecting a group of sound incase you have selected bit input mode

2 SDcards

- The SDcard is a compact flash memory card for storing MP3 files.
- After saving the MP3 files in the SDcard with the specified format, insert the card into the SDcard slot and switch the sound setting switch to ON so the product will be able to play sounds from the SDcard.

3 PLAY MODE setting switch

- PLAY MODE setting switch is used to choose the channel input method or select various play modes. Refer to the table below for switch features.
- Switch #0 and #9 is not used.

1	Bit Input Mode	5 sounds can be played from the selected group (choose one group from six groups) Play sound only once (if using sequential signal input or pulse signal input)
2	Binary Input Mode	Up to 30 sounds available for each model. Plays sound only once (sequential signal input only)
3	Bit Input Hold Playback Mode	5 sounds can be played from the selected group (choose one group from six groups) The sound is repeated if the input signal is maintained. (sequential signal input only) If the STOP signal is inputted, the sound is turned off, and if the STOP signal is disabled the sound is played repeatedly
4	Binary Input Hold Playback Mode	Up to 30 sounds available for each model The sound is repeated if the input signal is maintained. (sequential signal input only) If the STOP signal is inputted, the sound is turned off, and if the STOP signal is disabled the sound is played repeatedly
5	Bit Input Sound Reduction Mode	5 sounds can be played from the selected group (choose one group from six groups) You can reduce the volume(15dB) by using a separate volume reduction signal line (same as volume reduction signal input)
6	Binary Input Sound Reduction Mode	Up to 30 sounds available for each model You can reduce the volume(15dB) by using a separate volume reduction signal line (same as volume reduction signal input)
7	Bit Input Sequence Memory Playback Mode	5 sounds can be played from the selected group (choose one group from six groups) If the sound is inputted in a order, it will remember the order and play each sound about 3 seconds . The last input channel is fully played (bit input mode only)
8	Test Mode	In test mode, Ch1 of group is automatically played back repeatedly. To end the test mode, switch back to the other modes.

4 VOLUME

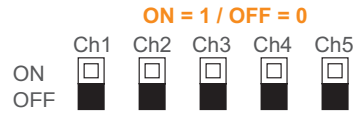
- You can adjust the speakers sound output by using the volume dial.

Sound Pattern and Combination for Multifunctional Product

■ Sound patterns for multifunctional products

- Multifunctional product has 30 pre-recorded sound tones.
- 30 sound tones in binary input mode supported. Bit input mode has 5 sound tones within 1 group among 6 groups.

• Bit input mode's sound tone combinations

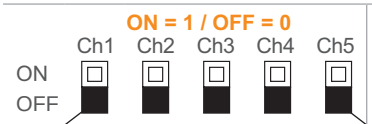


Left channel switch allows to select 5 tons individually within designated group.
(For group selection, please refer to page 140 "How to set-up the multifunctional products")
Channel switch will be substituted for external wiring in case of LC type products.

Sound		Ch	Sound Tone
WS	5 Warning Sounds	Ch1	Fire.A-ANG(560Hz-1.5kHz)
		Ch2	Emergency WA-U(Yelp)(600Hz-1.5kHz)
		Ch3	Ambulance PI-PO(Hi-low)(450Hz-900Hz)
		Ch4	Machinery Fault(820Hz)
		Ch5	High Expansion(1kHz)
WP	5 Special Warning Sounds (1st Group)	Ch1	Fire.A-ANG(560Hz-1.5kHz)
		Ch2	Abandon Alarm(820Hz)
		Ch3	Machinery Fault(820Hz)
		Ch4	High Expansion(1kHz)
		Ch5	7 Short PI. / 1 Long(1kHz)
WM	5 Melodies	Ch1	Sweet Home
		Ch2	For Elise
		Ch3	Cuckoo's Waltz
		Ch4	Piano Sonata
		Ch5	Turkish March

Sound		Ch	Sound Tone
WA	5 Alarms	Ch1	Beep Intermittent
		Ch2	Door Chime
		Ch3	Phone Ring
		Ch4	PI.PI.PI Short
		Ch5	Tripping Beat
WO	5 Special Warning Sounds (2nd Group)	Ch1	Rel rel rel(730Hz-920Hz)
		Ch2	Slow Ambulance PI-PO(820Hz-1.05kHz)
		Ch3	Wye yong Wye yong(770Hz-1.2kHz)
		Ch4	Phone ring 2(740Hz-910Hz)
		Ch5	Fire.A-ANG(770Hz-1.11kHz)
WN	5 Special Warning Sounds (3rd Group)	Ch1	Oit Oit(500Hz-1.11kHz)
		Ch2	Pi o Pi o(940Hz-2.19kHz)
		Ch3	Slow Di o Di o(680Hz-840Hz)
		Ch4	Li long Li ling(420Hz-470Hz)
		Ch5	911 Siren(500Hz-1kHz)

• Binary input mode's sound tone combinations



Left channel switch allows the user to select from 30 available sound tones.
Channel switch will be substituted for external wiring in case of LC type products.

No.	1	2	3	4	5	Sound tone	Frequency
0	0	0	0	0	0	No sound	
1	0	0	0	0	1	Fire.A-ANG	560Hz-1.5kHz
2	0	0	0	1	0	Emergency WA-U(Yelp)	600Hz-1.5kHz
3	0	0	0	1	1	Ambulance PI-PO(Hi-low)	450Hz-900Hz
4	0	0	1	0	0	Pi-ik Pi-ik	820Hz
5	0	0	1	0	1	Machinery Fault	820Hz
6	0	0	1	1	0	High Expansion	1kHz
7	0	0	1	1	1	Alarm	1kHz
8	0	1	0	0	0	Sweet Home	-
9	0	1	0	0	1	For Elise	-
10	0	1	0	1	0	Cuckoo's Waltz	-
11	0	1	0	1	1	Piano Sonata	-
12	0	1	1	0	0	Turkish March	-
13	0	1	1	0	1	Magic Flute	-
14	0	1	1	1	0	Badinerie	-
15	0	1	1	1	1	Pineapple Rag	-
16	1	0	0	0	0	Beep Intermittent	-
17	1	0	0	0	1	Door Chime	-
18	1	0	0	1	0	Phone Ring	-
19	1	0	0	1	1	PI.PI.PI Short	-
20	1	0	1	0	0	Tripping Beat	-
21	1	0	1	0	1	Rel rel rel	730Hz-920Hz
22	1	0	1	1	0	Slow Ambulance PI-PO	820Hz-1.05kHz
23	1	0	1	1	1	Wye yong Wye yong	770Hz-1.2kHz
24	1	1	0	0	0	Phone ring 2	740Hz-910Hz
25	1	1	0	0	1	Fire.A-ANG	770Hz-1.11kHz
26	1	1	0	1	0	Oit Oit	500Hz-1.11kHz
27	1	1	0	1	1	Pi o Pi o	940Hz-2.19kHz
28	1	1	1	0	0	Slow Di o Di o	680Hz-840Hz
29	1	1	1	0	1	Li long Li ling	420Hz-470Hz
30	1	1	1	1	0	911 Siren	150Hz-1kHz

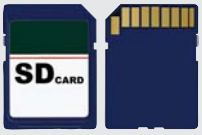
How to Use a MP3 Type Product

MP3-type models have 30 or 31 built-in alarm sounds and the users can play their voice messages or music files(MP3). You can choose two methods for playing up to 31 sounds with the binary input method. While the bit input method can only play 5 sounds from #1 to #5.

■ What is a MP3?

- MP3 is a audio compression technology(Audio layer-3) design by MPEG (Motion Picture Experts Group) MP3 (MPEG-1 Audio Layer-3) is a standard technology and format for compressing a sound sequence into a very small file while preserving the original level of sound quality when it is played.
- Extension of the MP3 file can be found as "*.mp3", and any voice message, alarm message, and music can be played and saved as MP3 files.

■ What is a SDcard?



SD memory card is a compact flash memory card for storing various data such as MP3s or document files, Models with MP3 features can save voice messages or alarm messages in the SDcard.

* SDcard sold separately.

Saving a MP3 file

- MP3 file can be saved and played in accordance with the standards specified by filename.
- Using binary input method according to the specifications given in the file name, a SDcard which is used in special alarm type models(MP3) can save up to 31 sounds, multifunctional type models can save and play up to 30 sounds.
- Using bit input method according to the specifications given in the file name, you can select and play up to five sounds from the MP3 file.

User-defined sound(MP3) type

23	_	For Elise	.mp3

- For Elise: 40 alphabets
- _: Indicator between file number and name
- 23: File number 01-30(31)

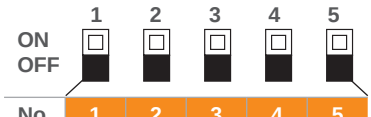
[Example]
- 01_Fire alarm.mp3
- 02_Emergency alarm.mp3
- 03_For Elise.mp3
- ⋮
- 30_Cuckoo Waltz.mp3

Binary input and Bit input method

Special alarm type models and multifunctional type models are divided into Binary input method or Bit input method depending on the source selection method.

■ Binary input

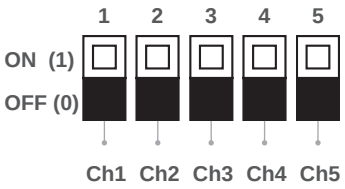
ON = 1 / OFF = 0



No.	1	2	3	4	5
0	0	0	0	0	0
1	0	0	0	0	1
2	0	0	0	1	0
:	:	:	:	:	:
31	1	1	1	1	1

You can only show 2 numbers with 1 switch "0", "1". With 5 switches you can have 31 combinations. Selecting one sound from 5 switches is the Binary input method.

■ Bit input



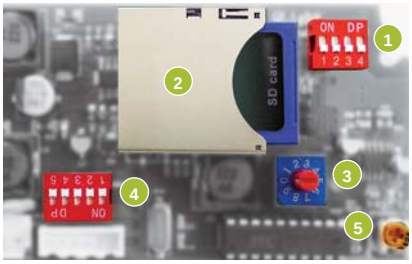
The Bit input method only recognizes one of the 5 switches at a time. This method doesn't support two inputs at once. The number of combinations is small, but it is much more convenient to remember the channel number.

How to Use a MP3 Type Product

■ MP3 supported model basic description

- MP3 supported products can play 30-31 built-in sounds or MP3 files saved in an SDcard.
- Binary input method can play up to 30 - 31 sounds, and Bit input method can play 5 sounds in accordance with the standards specified by filename.
- Can choose and play 5 sounds from #1 to #5.

<Switch select type>



<Line-out type>

1. Sound setting switch
2. MP3 playable SDcard
3. Play mode setting switch
4. Sound select switch
5. Volume

■ How to set-up a MP3 type product

Select Built-in sound

Select built-in or external sound

Select Built-in or external sound by using #1 switch in the sound setting switch.

For sound setting refer to page138 for special alarm type model, and page140 for multifunctional type model.

Play mode setting

Select Bit/binary input by using #3 the play mode setting switch.

For play mode setting, refer to page138 for special alarm type model, and page140 for multifunctional type model.

Bit input mode

Select sound group

Select one of the 6 groups by using #3 the sound setting switch.

built-in sounds of special alarm type models does not support bit input. Refer to page141 for multifunctional type model.

Select sound (play)

Select and play one of the 5 sounds using #4 sound select switch or line-out.

For sound selection settings, refer to page139 for special alarm type model, and page141 for multifunctional type model.

Binary input mode

Select sound (play)

Select and play one of the 30/31 sounds using #4 sound select switch or line-out.

For sound selection settings, refer to page139 for special alarm type model, and page141 for multifunctional type model.

Select external(MP3) sound

Insert SDcard

Insert #2 the SDcard that has the mp3 files into the SDcard slot.

Play mode setting

Select Bit/binary input by using #3 the play mode setting switch.

For play mode setting, refer to page138 for special alarm type model, and page140 for multifunctional type model.

Bit input mode

Select sound (play)

Select and play one of the 5 sounds using #4 sound select switch or line-out.

For sound selection settings, refer to page139 for special alarm type model, and page141 for multifunctional type model.

Binary input mode

Select sound (play)

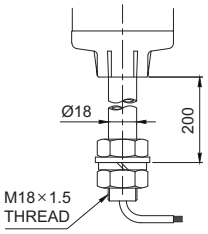
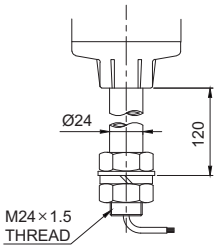
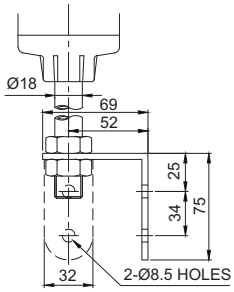
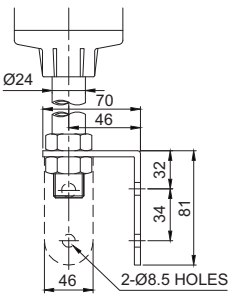
Select and play one of the 30/31 sounds using #4 sound select switch or line-out.

For sound selection settings, refer to page139 for special alarm type model, and page141 for multifunctional type model.

Tower Light Mounting Brackets

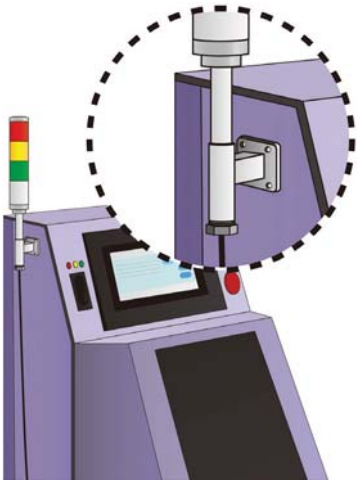
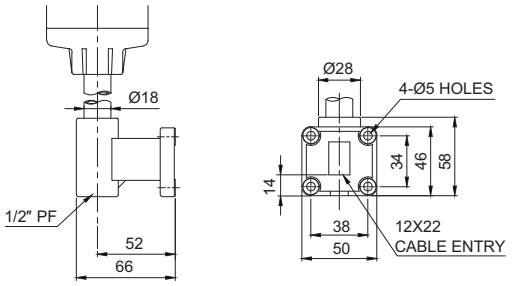
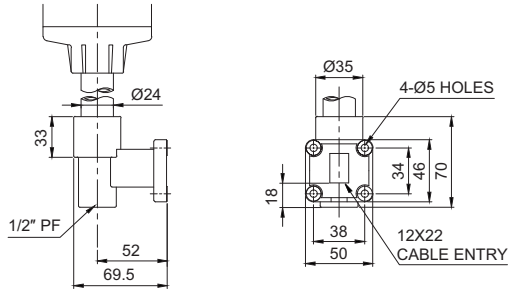
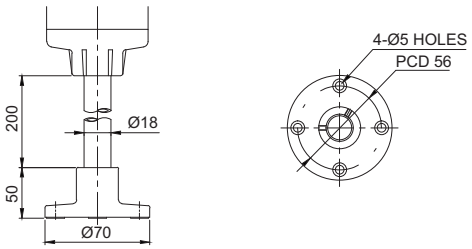
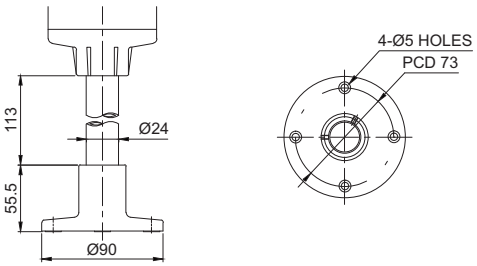
User can select from a variety of mounting brackets options depending on their application conditions.

(Units : mm)

Features	Product Image	Technical Diagram for Applicable Models
Standard type pole mount installation. There is a screw at the end of the pole and it is equipped with nut for installation. Material : Steel 	 18mm SCREW & NUT (Standard Type)	 ST45B, ST45BF, ST45L, ST45LF, ST56B, ST56BF, ST56L, ST56LF, ST56EL, ST56ELF, STC45L, STC56EL, STC56L, QT50L, QT50LF, QT50LS, QT50LR, STG40L, STG40LF, STG50L, STG50LF, ST45L-ETN, ST56EL-ETN, ST56L-ETN, ST45L-USB, ST56EL-USB, ST56L-USB
	 24mm SCREW & NUT (Standard Type)	 ST80B, ST80BF, ST80L, ST80LF, ST80EL, ST80ELF, STC80L, STC80LF, STC80EL, STC80ELF, QT70L, QT70LF, QT70LS, QT70LR, ST80EL-ETN, ST80L-ETN, ST80EL-USB, ST80L-USB
L-type bracket is attached to the pole mount tower light for installation to the side of the equipment. Material : Steel 	 LB18	 ST45B, ST45BF, ST45L, ST45LF, ST56B, ST56BF, ST56L, ST56LF, ST56EL, ST56ELF, ST56WL, STC45L, STC56EL, STC56L, QT50L, QT50LF,QT50LS, QT50LR, STG40L, STG40LF, STG50L, STG50LF, ST45L-ETN, ST56EL-ETN, ST56L-ETN, ST45L-USB, ST56EL-USB, ST56L-USB
	 LB24	 ST80B, ST80BF, ST80L, ST80LF, ST80EL, ST80ELF, STC80L, STC80LF, STC80EL, STC80ELF, QT70L, QT70LF, QT70LS, QT70LR, ST80EL-ETN, ST80L-ETN, ST80EL-USB, ST80L-USB

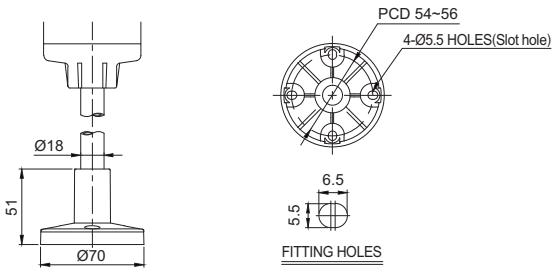
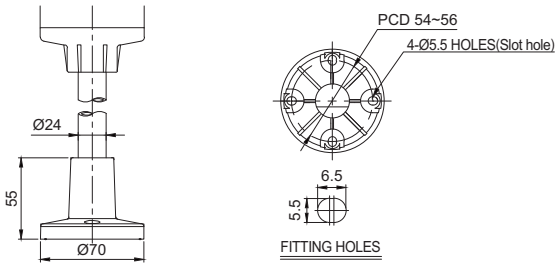
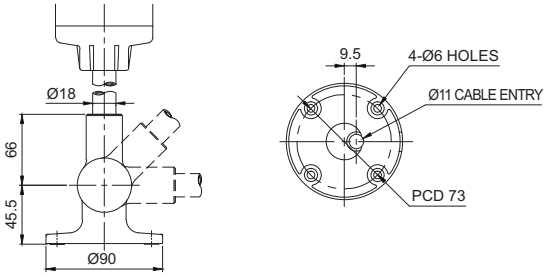
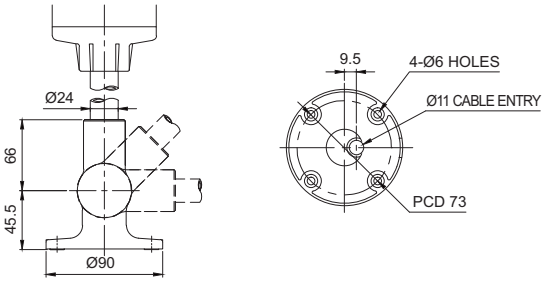
Tower Light Mounting Brackets

(Units : mm)

Features	Product Image	Technical Diagram for Applicable Models
High-end L-type bracket is attached to the pole mount tower light for side of equipment installations. Wires can be threaded through the side of the bracket or come out at the bottom. The threads inside the bottom of the bracket can enable use of cable connectors. Material : PC Color : Ivory 	 LW18	 ST45B, ST45BF, ST45L, ST45LF, ST56B, ST56BF, ST56L, ST56LF, ST56EL, ST56ELF, STC45L, STC56EL, STC56L, QT50L, QT50LF, QT50LS, QT50LR, STG40L, STG40LF, STG50L, STG50LF
	 LW24	 ST80B, ST80BF, ST80L, ST80LF, ST80EL, ST80ELF, STC80L, STC80LF, STC80EL, STC80ELF, QT70L, QT70LF, QT70LS, QT70LR
Round-shaped bracket for horizontal surface installation. Material : Al Color : Silver 	 SZ18	 ST45B, ST45BF, ST45L, ST45LF, ST56B, ST56BF, ST56L, ST56LF, ST56EL, ST56ELF, STC45, STC56EL, STC56L, QT50L, QT50LF, QT50LS, QT50LR, STG50L, STG40LF, STG50L, STG50LF
	 SZ24	 ST80B, ST80BF, ST80L, ST80LF, ST80EL, ST80ELF, STC80L, STC80LF, STC80EL, STC80ELF, QT70L, QT70LF, QT70LS, QT70LR

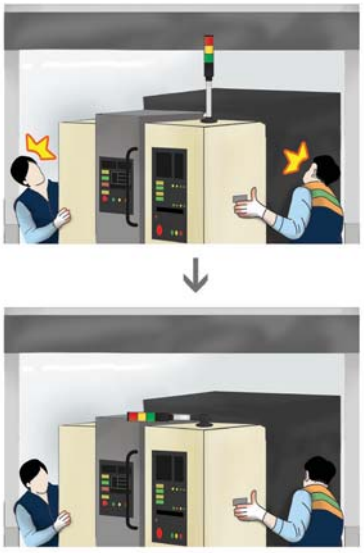
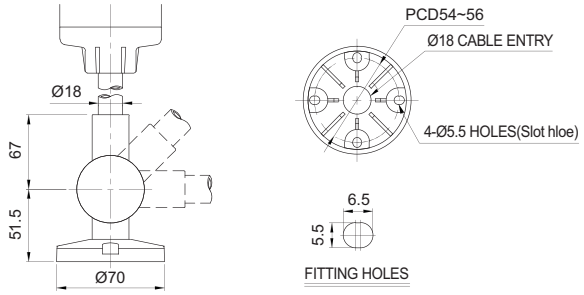
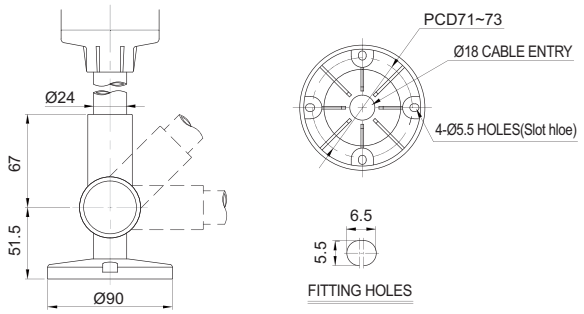
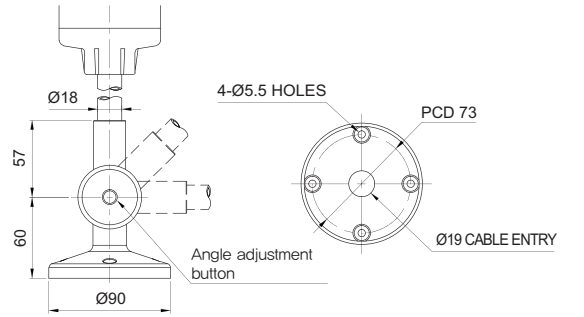
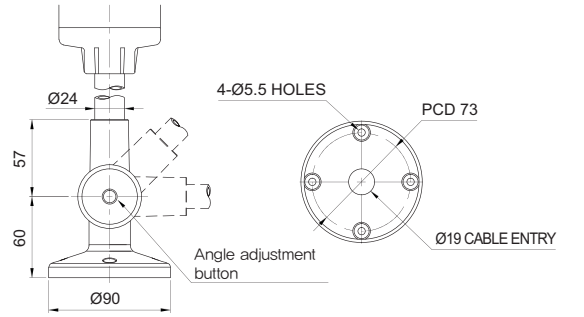
Tower Light Mounting Brackets

(Units : mm)

Features	Product Image	Technical Diagram for Applicable Models
Round-shaped bracket for horizontal surface installation. Material : PC Color : Black	 QZ18	 ST45B, ST45BF, ST45L, ST45LF, ST56B, ST56BF, ST56L, ST56LF, ST56EL, ST56ELF, STC45L, STC56EL, STC56L, QT50L, QT50LF, QT50LS, QT50LR, STG40L, STG40LF, STG50L, STG50LF
	 QZ24	 ST80B, ST80BF, ST80L, ST80LF, ST80EL, ST80ELF, STC80L, STC80LF, STC80EL, STC80ELF, QT70L, QT70LF, QT70LS, QT70LR
A angle adjustable bracket (15 degree intervals for a range of 0-180 degrees) enables easy vertical, horizontal, and slanted installation. Material : Al Color : Silver	 SL18	 ST45B, ST45BF, ST45L, ST45LF, ST56B, ST56BF, ST56L, ST56LF, ST56EL, ST56ELF, STC45L, STC56EL, STC56L, QT50L, QT50LF, QT50LS, QT50LR, STG40L, STG40LF, STG50L, STG50LF
	 SL24	 ST80B, ST80BF, ST80L, ST80LF, ST80EL, ST80ELF, STC80L, STC80LF, STC80EL, STC80ELF, QT70L, QT70LF, QT70LS, QT70LR

Tower Light Mounting Brackets

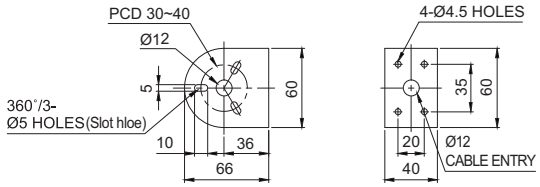
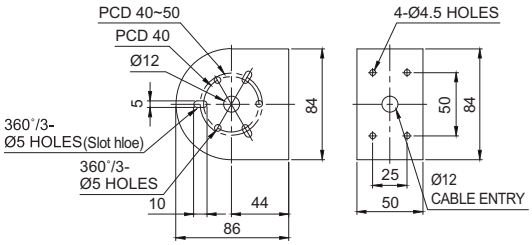
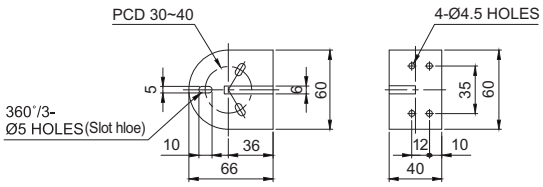
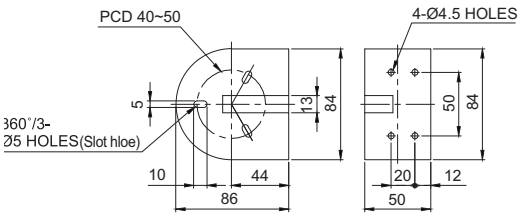
(Units : mm)

Features	Product Image	Technical Diagram for Applicable Models
A angle adjustable bracket (5 degree intervals for a range of 0-180 degrees) enables easy vertical, horizontal, and slanted installation. Material : PC Color : Black 	 QL18	 ST45B, ST45BF, ST45L, ST45LF, ST56B, ST56BF, ST56L, ST56LF, ST56EL, ST56ELF, STC45, STC56EL, STC56L, QT50L, QT50LF, QT50LS, QT50LR, STG40L, STG40LF, STG50L, STG50LF
	 QL24	 ST80B, ST80BF, ST80L, ST80LF, ST80EL, ST80ELF, STC80L, STC80LF, STC80EL, STC80ELF, QT70L, QT70LF, QT70LS, QT70LR
QLA bracket is angle-adjustable with the adjustment button located on the side. It enables 3 angle adjustments at 0, 45, 90 degrees. Material : PC Color : Black 	 QLA18	 ST45B, ST45BF, ST45L, ST45LF, ST56B, ST56BF, ST56L, ST56LF, ST56EL, ST56ELF, STC45, STC56EL, STC56L, QT50L, QT50LF, QT50LS, QT50LR, STG40L, STG40LF, STG50L, STG50LF, STG40L, STG40LF, STG50L, STG50LF
	 QLA24	 ST80B, ST80BF, ST80L, ST80LF, ST80EL, ST80ELF, STC80L, STC80LF, STC80EL, STC80ELF, QT70L, QT70LF, QT70LS, QT70LR

Bracket instructions for warning/ signal lights

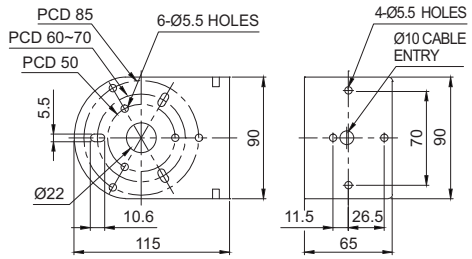
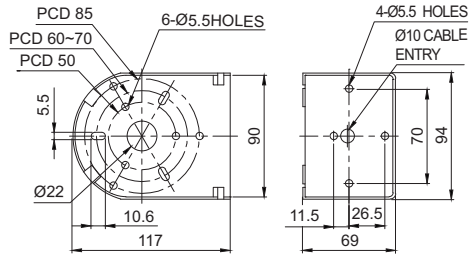
User can select from a variety of bracket options depending on their application conditions.

(Units : mm)

Features	Product Image	Technical Diagram for Applicable Models
Bracket options for direct mount warning/ signal light installation. Material : Steel	 TWS45	 S50B, S50L, S60R, S60LR, S60L, MFL60
	 TWS80	 S80R, S80RLR, S80U, S80LR, S80L, S80S, S80SOL, MFL80, SMCL80, QMCL80
Bracket options for direct mount warning/ signal light installation. Bracket structure allows for contained and tidy wiring with no exposed wires.	 TWA45	 S50B, S50L, S60R, S60LR, S60L, MFL60
	 TWA80	 S80R, S80RLR, S80U, S80LR, S80L, S80S, S80SOL, MFL80, SMCL80, QMCL80

Warning/ Signal Light Mounting Brackets

(Units : mm)

Features	Product Image	Technical Diagram for Applicable Models
Bracket options for direct mount warning/ signal light installation. Material : Steel Color : Ivory	 SWP125	 S100R, S100E, S100RLR, S100UR, S100URLR, S100U, S100UA, S100LR, S100L, S100S, S125R, S125E, S125RL, S100D, S125D, STDL, STNDL, STND100, STND125
Bracket options for direct mount warning/ signal light installation Bracket structure allows for contained and tidy wiring with no exposed wires. Material : PC Color : Ivory	 SWM125	 S100R, S100E, S100RLR, S100UR, S100URLR, S100U, S100UA, S100LR, S100L, S100S, S125R, S125E, S125RL, S100D, S125D, STDL, STNDL, STND100, STND125

Icon Description

This catalogue helps users quickly identify the product's specifications and features by using several types of icons. If you understand the concept for each icon, you will find it easy to understand the catalogue information.

Light Source and Operating Mode Icons

Icon	Operating Mode	Icon	Operating Mode
	Bulb steady type		Bulb steady/flashing type
	Bulb revolving type		LED revolving type
	LED steady type		LED steady/ flashing type
	LED simulated revolving type		LED strobe type
	Xenon lamp strobe type		

Acoustic Signal Icons

Icon	Operating Mode	Icon	Operating Mode
	Buzzer		Speaker
	Horn		Bell
	Motor siren		MP3
	Decibel		

Specifications Icons

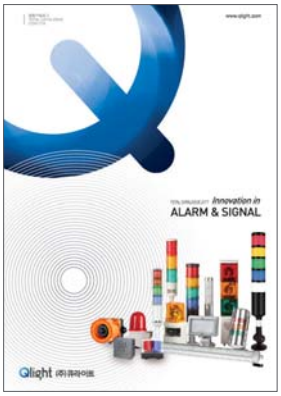
Icon	Operating Mode	Icon	Operating Mode
	Magnet type		Ambient operating temperature
	NPN type transistor		PNP type transistor
	IP rating		Wireless Network

Detail Icons

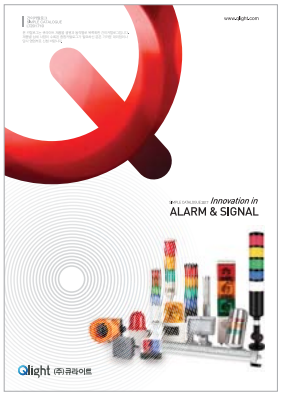
Icon	Operating Mode	Icon	Operating Mode
	Common specification		External view drawing
	Wiring		Mounting
	User specifications		Model selection

Qlight Catalogue Introduction

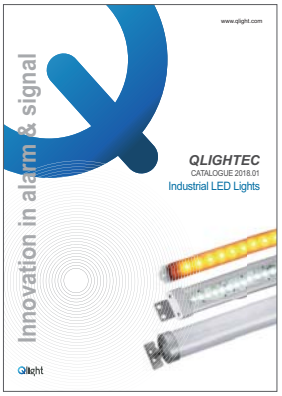
Qlight produces a wide variety of product categories which offers the customer the ability to select the suitable device for their application needs and environments.
There are warning/signal lights, electric signal horns, signal tower lights, warning light bars, PC control tower lights, industrial LED lights, aviation obstruction lights, and limit switches.



Total Catalogue



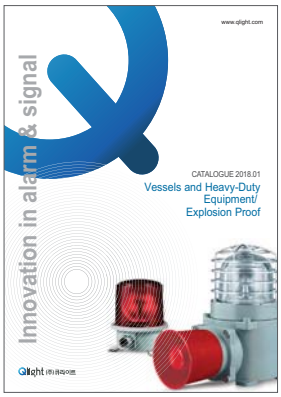
Simple Catalogue



Industrial LED Lights

Signal Tower Lights

Warning/ Signal/ Signal & Electric Horn

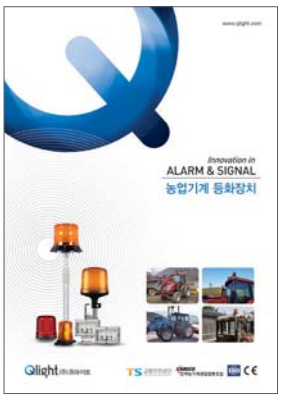


Vessels and Heavy-Duty Equipment/
Explosion Proof

Warning Light Bar

Aviation Obstruction Lights

Wireless Network System



Agriculture Machine Warning Light

Limit Switch

For Steel Manufacturing Facilities

FOR YOUR SAFETY

Specification and dimensions listed in this catalogue are subject to change without prior notice for product quality improvement. The newest product information is available on our web site. (www.qlight.com)
Please read the Instruction Manual attached to the product carefully before installation and use.

Qlight Catalogue Introduction

Signal Tower Lights

Warning/ Signal & Electric Horn

Vessels and Heavy-Duty & Equipment/ Explosion Proof

Warning Light Bar

Aviation Obstruction Lights

Industrial LED Lights

Qlight Co., Ltd. *www.qlight.com* | *qlightkr@qlight.com*
Head Office | A-412, 579, Gyeongin-ro, Guro-gu, Seoul, Korea Tel. +82-80-328-2222 Fax : +82-2-2679-6154
Factory | 185-25, Mukbang-Ro, Sangdong-Myeon, Gimhae-si, Gyeongsangnamdo, Korea Tel. +82-80-328-1111
Qlight Public Relations & Marketing Team Office | Nakdong-daero, Sasang-gu, Busan, Korea(Eomgung-Dong) Tel : +82-51-245-0017

Qlight USA, Inc. *www.qlight.com* *www.qlightusa.com* | *sales@qlightusa.com*
3003 North First Street, Suite #341, San Jose, CA 95134 USA Tel. +1.408.519.5740 Fax. +1.408.519.5739

SHANGHAI Qlight Electronic Co., Ltd. *www.qlight.com* *www.qlightcn.com* | *qlightcn@qlight.com*
China Factory/ Shanghai Sales Office | #19, Nanda Road, Baoshan Area, Shanghai, China Tel. +86.21.6651.7100 Fax. +86.21.6315.3929

Qlight

WARNING LIGHT | ELECTRONIC HORN | SIGNAL TOWER LIGHT | EMERGENCY LIGHT BAR | LED OBSTRUCTION LIGHT | LED WORK LIGHT