

SIMPLE CATALOGUE 2017 Innovation in ALARM & SIGNAL





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New Products

Warning/ Signal/ Stackable Lights

We produce a diverse portfolio of xenon and LED warning/ signal/ stackable light products that vary in size from 50mm to 180mm in diameter. The xenon and LED filaments are used to improve the lifetime and brightness of the products.



Signal Lights & Electric Horns/ Speakers

Excellent products that provide visual signals and audible sound. These products recently added an SDcard slot which allows users to input their own sound suitable for their application condition.



Heavy-Duty Warning Lights / Horns

Products for vessels, heavy-duty, and heavy equipment require anti-vibration, corrosion, and waterproof qualities. Qlight's products are compliant with ABS, LR, CCS, KR, CE certifications.



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Explosion Proof Warning Lights / Horns

Explosion proof products are used in places such as offshore plants, petrochemical plants and gunpowder factories where lingering explosive gas/chemicals pose a higher risk for fire and explosion.

Qlight produces products which are compliant to IECEx, ATEX, NEPSI, KGS, KOSHA standards.



Contents



Warning Light Bars

Warning light bars require various shapes and sizes depending on the vehicle and purpose. Qlight's products can meet varying requirements due to the modular design of the light bar.



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Aviation Obstruction Lights

Aviation obstruction lights are placed in high locations that can be costly for repair and inspection. Qlight's products use LED lights which provide long lasting durability and are virtually maintenance free. Qlight's products can meet the mid, low brightness and flame proof standards.



Signal Tower Lights

Signal tower lights can be used for a wide variety of industries and environments that require the transmission of visual and audible signals. Qlight tower lights are available in a number of shapes and also offer options for built-in sounds and melodies.



Special-Controlled LED Tower Lights

Qlight offers three types of special-controlled LED tower lights - Ethernet LED tower lights controlled and connected remotely by TCP/IP Ethernet through Internet or LAN, USB interfaced LED tower lights connected and powered by a PC's USB port, and wireless LED tower lights controlled by a PC that can interlock up to 620 devices through wireless mesh network. All special-controlled tower lights are available with built-in buzzer type and electric horn combination type and you can choose the size of tower lights ranging from Ø45mm to Ø80mm.



Electronic Horns/ Speakers/ Motor Sirens

Electric horn products include 7 warning sounds, 13 melodies, and 30 MP3 sounds (via multiple channels) built-in. Products with the MP3 option allow users to input the proper sound for their working condition and environment.



Industrial LED Lights

Qlight produces industrial LED work lights for machine tools that are durable and waterproof. These industrial work lights can also be used in distribution panels and are IP67/ IP69K compliant for high pressure water cleaning environments.





Company Introduction







Qlight Gives You a Brighter Future!

As equipment and industrial processes become more automated and diversified, the demand for a diverse portfolio of products and focused expertise in the field of signaling devices has grown dramatically. Since its founding in 1986, Qlight has developed into a dominant force in the industry and is recognized as the leading specialist in signaling devices. We have built a flexible production system capable of building a variety of products to fit the expansive application needs of our growing customer base. With the introduction of LED light sources in our products in 1993, more than 450 of our products have been used in various industries and applications such as semiconductors, automotive, unmanned automation equipment, iron/steel, shipbuilding, marine plants, and petrochemical plants. In recent years, we have innovated further by developing products such as our specially controlled (USB, Ethernet, wireless) multifunctional tower lights and multichannel electric signal horns with MP3 input which provide our customers with smart solutions to complex signal transmission systems. In addition, through our rigorous attention to detail and implementation of robust inspection systems we pride ourselves in providing products with superior technology and quality. We currently have certification in 22 organizations such as IECEx, ATEX, NEPSI, CCS, CE, UL and continue to expand our certifications in accordance to industry needs.

Qlight is differentiated by focusing on a diverse product portfolio and guick delivery times. We employ an enterprise resource planning (ERP) system, a high-efficiency supply chain management (SCM) system, a cell based production system, and a flexible customer-centric production management system to meet the needs of our customers. Our established local corporations in China and South Korea, sales branches in Japan and the United States, and a global service network provides a distribution and sales system servicing over 40 countries. Through the organic collaboration between our production and distribution centers, we offer services that are appropriate to the situation of each country, industrial environment, and market.Qlight strives to continue our efforts as an industry leading company by developing new technologies that can contribute to improving industrial efficiency through improved customer relationships.



Qlight Global Networks

Country	Company name	Company name Address Phon	
Korea	185-25, Mukbang-Ro, Qlight Co., Ltd. Sangdong-Myeon, Gimhae-si, Gyeongsangnamdo, Korea		+82-55-328-4082
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

HYUNDAI HEAVY HIDUSTRIES CO., LEG.	posco	DSME	HEAVY INDUSTRIES	Doosan Infracore	WIA
SK hynix	Q Hanwha	ТРЕМЕНТАТИ	SAMSUNG ELECTRONICS	Korea Expressway Corporation	C LG Electronic
	-	CAT	Q		₽PSA

Qlight

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	0 0	A great leap forward & business reconstruction	0 0	The 2nd growth and globalization	









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1986

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2016	09 07	QMFL300-Ex LED Work Light Acquired KGC Safety Certificate Acquired ICAO (International Civil Aviation Organization) certificate for low intensity LED aviation obstruction lights (SAOL2) Qlight's New Innovative UL-Listed QMPS Series Smart Electric Horn Now available
	02	Obtained UL certificate for LED signal lights Q series Obtained the patent for "Bar style LED work lights" (Patent # : 10-1598123)
2015	12 06 03	The second headquarter factory built Limit switch models (3 items including SW2TS) acquired certificates from RMRS LED Work lights (QML150/250, QMFL 500/600) UL listed
2014	10 09 08 01	Established the Qlight USA, Inc. in San Jose, CA. Horn which that emits light patented (Patent #: 10-1452447) LED strobe light with multi-lens patented (Patent #: 10-1444391) Explosion Proof product family including SNE, SNES, SESA, SEA, SPNA acquired IECEx certificates 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 09	Explosion Proof warning lights (SNE, SNES) acquired CCS Certificates LED work light with cylindrical lens attached patented (Patent # : 10-1219020) 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 08 07	SNE, SNES certified by NEPSI, SNE, SNES, SESA, SEA, SPNA certified by KOSHA KCC (Korea Communications Commission) certificate acquired Light equipment applying prism system patented (Patent # : 10-1051056) ATEX certificate acquired for PC controlled tower light (ST56EL-ETN)
2010	05	QEB certified by KIMM LED warning light, bulb revolving warning light patented (Patent # : 10-0961472)
2009	12	SSEL certified by KIMM LED tower lights compliant with the RoHS Directive
2008	04 03	Motor drive system patented (Patent # : 20-0439536) LED revolving type lens patent acquired (patent # :10-0808669)
2007	11 05	Explosion Proof electric horn (SPNA) acquired NEPSI certificates Tower light models including ST45, ST56,ST80) UL listed
2005	07 04	Heavy duty products for vessel applications acquired Lloyd's (UK's Maritime Classification Society) certificates 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

Developed limit switches for vessel applications

Established Qlight

Qlight

Application Areas

Qlight's products are used in a wide range of industries. With our various product families, we offer a wide selection of products appropriate for every facility and working condition.



Shipbuilding Industry

Explosion proof products have the durability, enclosed structure, and corrosion resistance features to protect it from dangerous situations in ships or manufacturing plant environments.













Semiconductor Manufacturing Equipment

Semiconductor manufacturing equipment has a high automation utilization rate and for that reason its operating condition is monitored by signaling devices. In this case, signal tower lamps are typically used. On the other hand, for places/ equipment that use ultra-high purity gases in its process (for example gas cabinets), non sparking explosion proof signal tower lamps are used.





Offshore Plant

For offshore oil and gas rigs in the ocean, safety is a priority. In order to maintain safe and stable operating conditions, Heavy-duty products are often selected because of its shock/ corrosion/water resistance features.











Petrochemical Plant

Places such as petrochemical plants and gunpowder factories where explosive gas is ubiquitous and has a higher risk of fire and explosion. Explosion proof signaling devices are often used in order to ensure proper safety in these hazardous locations.









Application Areas





Steel Industry

Steel mills have high-risk of an accidents due to its 24-hour a day operation in high-temperature environments. Various warning lights and alarms are installed to ensure safety, mostly heavy-duty products that have high resistance to vibration and shock are used in this application











Unmanned Automation Equipment

Various audio-visual signaling devices are used in locations where unmanned automated machines are in operation. They are used to notify the current status of the manufacturing process/ equipment. With our products, operators can quickly respond to any situation.













Machine Tools

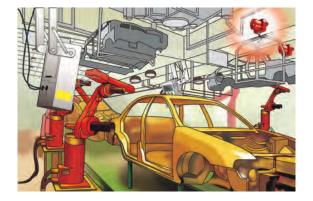
It is often difficult to monitor the operating status inside a machine tool. Therefore, signal tower lamps with auditory tones are mainly used and mounted outside the machine tool to help notify the user of its operating status. On the other hand, work lights installed inside the machine help with visibility inside the tool and require high durability and resistance to oil. Qlight has LED work lights for machine tools that are suitable for IP69K environments.











Automotive Industry

Manufacturing efficiency drops significantly when a failure occurs in a working line of a automobile plant. A signaling system is valuable in tracking the status of the equipment in order to provide immediate response to the situation or problem.











Application Areas





Industrial Vehicles, Construction Machinery

Industrial vehicles such as forklifts, excavators, and wheel loaders use warning lights to warn people from getting close to the vehicles. Industrial vehicles and construction machinery are exposed to harsh environments such as heavy vibration/shock. Therefore, these products require high durability and superior weather resistance.











Obstruction Lights

It is mandatory to install obstruction lights on structures likely to interfere with the flight path and safety of an aircraft. Since these product specifications are defined by each government's aviation regulatory bodies, users must select the right products that meet the proper requirements.





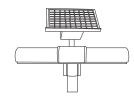


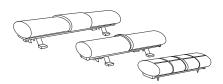




Road Safety and Emergency Vehicles

Installed in vehicles such as police cars, ambulances and tow trucks to ensure safety. Also installed in hazardous areas such as steep slopes to warn drivers to drive safely in dangerous areas.







LED Revolving Warning Lights















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Model	number	S60LR	S80DR	S80LR	S80DRK	S80LRK	S80ADR	S80ALR
Volt	age	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V				
	Diameter	Ø70	Ø83	Ø83	Ø84	Ø84	Ø83	Ø83
Dimension (mm)	Height	121	131	133	153	155	125	127
(11111)	Depth	-	-	-	-	-	113	113
Vol	ıme	-	Max. 90dB at 1m	Max. 90dB at 1m	-	-	Max. 90dB at 1m	Max. 90dB at 1m
Mat	erial	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	Mount bracket	Mount bracket	Wall mount	Wall mount
Protection	on rating	IP44	IP44	IP44	IP44	IP44	IP44	IP44
Certif	icates							
Custon	nization	Wall mount	Wall mount	Wall mount	Pole mount	Pole mount	-	-















Model	number	S100LR	S100MLR	S125LR	S125MLR	SKMPLR	SKLR	SKMLR
Volt	age	DC12V, DC24V AC110V, AC220V	DC12V, DC24V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V	DC12V, DC24V	DC12V, DC24V	DC12V, DC24V
	Diameter	Ø101	Ø101	Ø119	Ø119	-	-	-
Dimension (mm)	Height	152	149	158	161	142	135	138
(111111)	Depth	-	-	-	-	185(Length)	183(Length)	183(Length)
Vol	ume	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	-	-	-
Mat	erial	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
Mount	bracket	Self stand	Detachable magnet	Self stand	Detachable magnet	Detachable magnet	Self stand	Detachable magnet
Protecti	on rating	IP44	IP54	IP44	IP54	IP54	IP54	IP54
Certif	icates							
Custon	nization	Wall mount 2 tones buzzer S100DR, S100RLR	AC type	Wall mount 2 tones buzzer S125RLR	AC type	Oval-shaped Rubber Magnet	-	-









Model	number	S150ULR	S150ULR-FT	S150RLR	S150RLR-FT	
Volt	tage	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	
	Diameter	Ø138	Ø138	Ø140	Ø140	
Dimension (mm)	Height	193	196	189	194	
(111111)	Depth					
Volu	ume	Max. 90dB at 1m	Max. 90dB at 1m	-	-	
Mat	erial	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-STS	Lens-PC Housing-STS	
Mount	bracket	Self stand	Mount bracket	Self stand	Mount bracket	
Protection	on rating	IP44	IP44	IP44	IP44	
Certif	icates					
Custon	nization	2 tones buzzer	2 tones buzzer	-	-	



LED Steady/ Flashing Signal Lights













Model	number	Q60L	Q60LW	Q60LP	Q80L	Q80LW	Q80LP
Vol	tage	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V
	Diameter	Ø69	Ø69	Ø69	Ø83	Ø83	Ø83
Dimension (mm)	Height	100	129	334	120	157	278
(111111)	Depth	-	107	-	-	114	-
Vol	ume	Max. 80dB at 1m	Max. 80dB at 1m	Max. 80dB at 1m	Max. 80dB at 1m	Max. 80dB at 1m	Max. 80dB at 1m
Mat	erial	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
Mount	bracket	Self stand	Wall mount	Pole mount	Self stand	Wall mount	Pole mount
Protecti	on rating	IP65	IP65	IP65	IP65	IP65	IP65
Certif	icates	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL
Custor	nization	-	-	Customized pole length available	-	-	Customized pole length available













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
Diameter	Ø97	Ø97	Ø97	Ø116	Ø116	Ø116
Dimension Height (mm)	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
Mount bracket	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	-	-	Customized pole lengt

Multiple Function LED Signal Lights









V.			



Multiple Color LED Signal Lights



Model	number	MFL60	MFL80	MFL100	MFL125
Volt	age	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V	DC12V-24V AC110V-220V
	Diameter	Ø69	Ø83	Ø97	Ø116
Dimension (mm)	Height	100	120	136	155
(11111)	Depth	-	-	-	-
Volu	ume	Max. 80dB at 1m			
Mat	erial	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS
Mount	bracket	Self stand	Self stand	Self stand	Self stand
Protection	on rating	IP65	IP65	IP65	IP65
Certif	icates	CE	CE	CE	CE
Custon	nization	Wall mount	Wall mount	Wall mount	Wall mount

Model number		SWTC	SWTCE		
Volta	ge	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V		
	Diameter	Ø90(Half)	Ø90(Half)		
Dimension (mm)	Height	216	216		
	Depth	46	46		
Volume		Max. 90dB at 1m	Max. 90dB at 1m		
Mater	ial	Lens-PC Housing-ABS	Lens-PC Housing-ABS		
Mount br	acket	Wall mount	Wall mount		
Protection	rating	IP55	IP55		
Certific	ates	CE	CE		
Customization		Color combination except for standard, 2 tones buzzer	Color combination except for standard, 2 tones buzzer		
Transis	stor	NPN type	NPN type		



Bulb Revolving Warning Lights















		A.A	417	7 7	1	-		
Model r	number	S60R	S80R	S80U	S80RK	S80UK	S80AR	S80AU
Volt	age	DC12V, DC24V AC110V, AC220V						
- 1	Diameter	Ø70	Ø83	Ø83	Ø84	Ø84	Ø83	Ø83
Dimension (mm)	Height	121	131	133	153	155	125	127
(111111)	Depth	-	-	-	-	-	113	113
Volu	ıme	-	Max. 90dB at 1m	Max. 90dB at 1m	-	-	Max. 90dB at 1m	Max. 90dB at 1m
Mate	erial	Lens-AS Housing-ABS						
Mount I	bracket	Self stand	Self stand	Self stand	Mount bracket	Mount bracket	Wall mount	Wall mount
Protection	on rating	IP44						
Certifi	icates	CE	CE	-	-	-	-	-
Custom	nization	Wall mount	Wall mount	Wall mount	Pole mount	Pole mount	-	-















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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
Diameter	Ø101	Ø101	Ø101	Ø101	Ø119	Ø119	Ø119
Dimension Height (mm)	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
Mount bracket	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











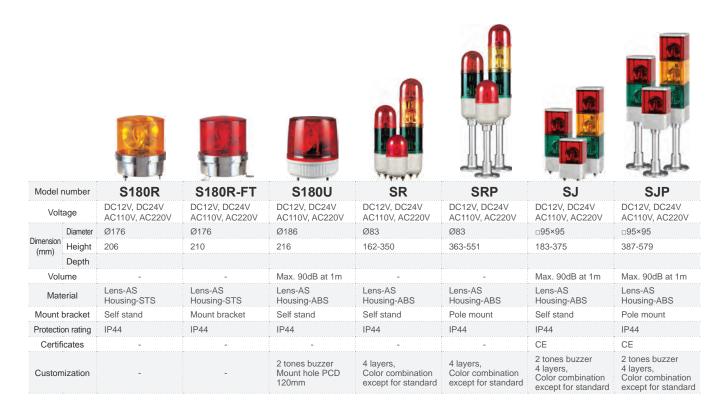




Model number	sk/ SKH	SKM/ SKMH	SKMP/SKMPH	S150U	S150U-FT	S150R	S150R-FT
Voltage	DC12V, DC24V	DC12V, DC24V	DC12V, DC24V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
Diame	ter -	-	-	Ø138	Ø138	Ø140	Ø140
(mm) Heigh	nt 135	138	142	193	196	189	194
Dept	n 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
Mount bracke	t Self stand	Detachable magnet	Detachable magnet	Self stand	Mount bracket	Self stand	Mount bracket
Protection ratin	g IP54	IP54	IP54	IP44	IP44	IP44	IP44
Certificates	-	-	-	-	-	CE	CE
Customizatio	n -	-	Oval-shaped rubber magnet	2 tones buzzer	2 tones buzzer	-	-



Bulb Revolving Warning Lights



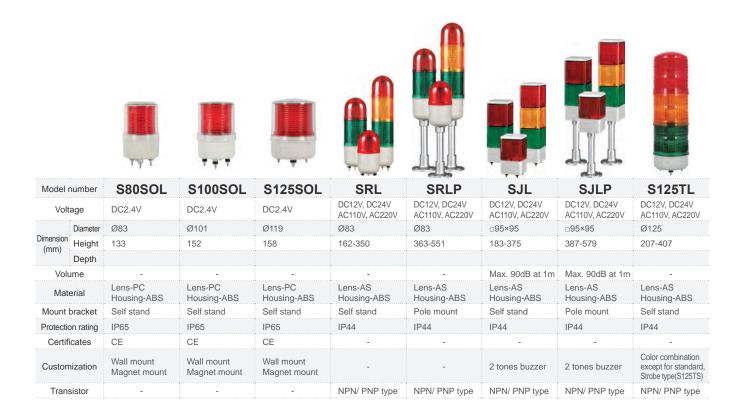
LED Steady/ Flashing Signal Lights





LED Steady/ Flashing Signal Lights/ Stackable Lights







Multiple Color LED Signal Lights









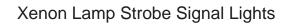






		110	***			-		
Model	number	SMCL80	SMCL100	SMCL125	QMCL60	QMCL80	QMCL100	QMCL125
Vol	tage	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V	DC12V, DC24V	DC12V, DC24V	DC12V, DC24V
	Diameter	Ø83	Ø101	Ø119	Ø69	Ø83	Ø97	Ø116
Dimension (mm)	Height	132	152	158	80	85	95	110
(111111)	Depth							
Vol	ume	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
Mat	erial	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	Self stand	Self stand	Self stand
Protecti	on rating	IP44	IP44	IP44	IP65	IP65	IP65	IP65
Certif	icates	CE	CE	CE	CE	CE	CE	CE
Custor	nization	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
Tran	sistor	NPN type	NPN type	NPN type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type

LED Strobe Signal Lights

















Model r	number	S80NS	S80LS		
Volt	age	DC12V-24V	DC12V-24V		
	Diameter	Ø83	Ø83		
Dimension (mm)	Height	111	106		
(11111)	Depth	-	-		
Volu	ıme	-	-		
Mate	erial	Lens-PC Housing-ABS+GF	Lens-PC Housing-ABS		
Mount l	oracket	Self stand	Self stand		
Protection	n rating	IP66	IP65		
Certifi	cates	-	CE, UL		
Custom	nization	-	-		

The second of				
S80S	S80SM	S80AS	S100S	S100SM
DC12V, DC24V AC110V, AC220V	DC12V, DC24V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V
Ø83	Ø83	Ø83	Ø101	Ø101
106	106	127	113	113
-	-	113	-	-
-	-	Max. 90dB at 1m	-	-
Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Self stand	Detachable magnet	Wall mount	Self stand	Detachable magnet
IP54	IP54	IP44	IP54	IP54
CE	-	-	CE, KIMM	-
Wall mount	AC type	Dome type lens	Wall mount	AC type















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Model	number	S125S	S125SM	S150US	S150US-FT	S150RS	S150RS-FT	S180US/ S180UHS
Vol	tage	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
	Diameter	Ø123	Ø123	Ø138	Ø138	Ø140	Ø140	Ø186
Dimension (mm)	Height	125	123	193	196	189	194	216
(11111)	Depth							
Vol	ume	-	-	Max. 90dB at 1m	Max. 90dB at 1m	-	-	Max. 90dB at 1m
Mat	terial	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
Mount	bracket	Self stand	Detachable magnet	Self stand	Mount bracket	Self stand	Mount bracket	Self stand
Protecti	on rating	IP54	IP54	IP44	IP44	IP44	IP44	IP44
Certif	ficates	CE	-	-	-	-	-	-
Custon	nization	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



Reference for Warning/ Signal Lights & Electric Horns













N	Nodel 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-AS Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS
& Operation	Bulb Steady/Flashing Bulb Revolving LED Revolving	•					
	LED Steady/Flashing LED Strobe LED Simulated revolving	•	•	•	•	•	•
	Xenon lamp strobe	•					
	High Buzzer	Max. 100dB at 1m			Max. 105dB at 1m		Max. 105dB at 1m
Sound &	5 Signal sounds Voice		Max. 85dB at 1m				
Volume	30 signal sounds 31 signal sounds			Max. 100dB at 1m		Max. 100dB at 1m	
	MP3					Max. 95dB at 1m	
	Mount type	Wall mount	Wall mount	Wall mount	Wall mount	Wall mount	Wall mount
	IP	IP54	IP54	IP65	IP65	IP65	IP65
	Certificates	CE	CE	CE, UL	CE, UL	CE, UL	CE, UL
(Customization	2 tones buzzer	2 tones buzzer, Color combinations except for standard	-	-	-	-
	transistor	-	NPN Type	NPN Type	-	NPN Type	-











	*************	***************************************		. *			
N	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	
	Diameter	Ø116	Ø116	136×179	168×222	95×95(Cubic)	
Dimension (mm)	Height	244	244	-	-	274-466	
(111111)	Depth	132	132	126	163	-	
	Material	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Horn-PC Housing-ABS	Horn-PC Housing-ABS	Lens-AS Housing-ABS	
	Bulb Steady/Flashing						
	Bulb Revolving					•	
Lamp	LED Revolving						
&	LED Steady/Flashing	•	•			•	
Operation	LED Strobe			•	•		
	LED Simulated revolving					_	
	Xenon lamp strobe High Buzzer		Max. 105dB at 1m			•	
	5 Signal sounds		Max. 1000b at IIII			Max. 90dB at 1m	
Sound	Voice					Max. 80dB at 1m	
& \/=l===	30 signal sounds	Max. 115dB at 1m					
Volume	31 signal sounds			Max. 115dB at 1m	Max. 123dB at 1m		
	MP3	Max. 100dB at 1m		Max. 113dB at 1m	Max. 118dB at 1m		
	Mount type	Wall mount	Wall mount	Wall mount	Wall mount	Self stand	
	IP	IP65	IP65	IP66	IP66	IP23	
	Certificates	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	
C	Customization	-	-	External signal line	External signal line	Lens color expect for standard	
	transistor	NPN Type	-	NPN Type	NPN Type	NPN Type	



Reference for Warning/ Signal Lights & Electric Horns

















Model	I number(Series)	QA70HLS	QA100HLS	QA115HLS	QA115HLSP	QA125HLS	QA125HLSP
	Voltage	DC12V-24V	DC12V-24V	DC12V-24V	DC12V-24V	DC12V-24V	DC12V-24V
Dimension (mm)	Diameter	Ø72	Ø101	Ø107(Lens) Ø150(Housing)	Ø107(Lens) Ø117(Housing)	Ø123	Ø123
	Height	108	113	112	270	125	321
	Depth						
	Materials	Lens-PC Housing-ABS+GF	Lens-PC Housing-ABS	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-PC
	Bulb Steady/Flashing						
Light	Bulb Revolving						
source	LED Revolving LED Steady/Flashing						
& Operation	I ED Strobo	•	•	•	•	•	•
Operation	LED Simulated revolving Xenon Strobe						
М	lounting type	Self stand	Self stand	Self stand	Pole mount	Self stand	Pole mount
(Cable entry						
Pro	otection rating	IP66	IP66	IP66	IP66	IP66	IP66
Certificates		CE	-	-	-	-	-
С	ustomization						
	Transistor						











		0.7				-	
Model	number(Series)	QA140HLSP	SH1	SH1P	SH1T	SH1TP	
	Voltage	DC12V, DC24V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	
	Diameter	Ø140	Ø119(Lens)	Ø135(Cage)	Ø119(Lens)	Ø135(Cage)	
Dimension (mm)	Height	325	168	178	168	178	
(11111)	Depth	-	-	-	234(Length)	234(Length)	
	Materials	Lens-PC Housing-PC	Lens-PC Housing-Al	Lens-PC Housing-Al	Lens-PC Housing-Al	Lens-PC Housing-Al	
	Bulb Steady/Flashing						
Light	Bulb Revolving		•	•	•	•	
source	LED Revolving		•	•	•	•	
&	LED Steady/Flashing LED Strobe		•	•	•	•	
Operation	LED Sirobe LED Simulated revolving	•					
	Xenon Strobe		•	•	•	•	
М	ounting type	Pole mount	Self stand	Self stand	Self stand	Self stand	
(Cable entry	-	1/2"PF	1/2"PF	1/2"PF	1/2"PF	
Pro	tection rating	IP66	IP66	IP66	IP66	IP66	
Certificates		CE, E11	KIMM, ABS, CCS, CE	KIMM, ABS, CCS, CE	CE	CE	
Cı	ustomization	-	Built-in cable gland, Cable entry : 3/4"PF	Built-in cable gland, Cable entry : 3/4"PF	Built-in cable gland, 2 ways terminal box, cable entry: 3/4"PF	Built-in cable gland, 2 ways terminal box, cable entry : 3/4"PF	
	Transistor						















Mode	number(Series)	SH2	SH2P	SH2T	SH2TP	SSLW	SSLM
	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
Dimension (mm)	Diameter	Ø138(Lens)	Ø158(Cage)	Ø138(Lens)	Ø158(Cage)	Ø93	Ø93
	Height	198	212	198	212	180-615	180-615
(11111)	Depth	-	-	250(Length)	250(Length)	43	43
	Materials	Lens-PC Housing-Al	Lens-PC Housing-Al	Lens-PC Housing-Al	Lens-PC Housing-Al	Lens-PC Housing-Al	Lens-PC Housing-Al
	Bulb Steady/Flashing						
Light	Bulb Revolving	•	•	•	•		
source	LED Revolving LED Steady/Flashing	•	•	•	•	●(Steady)	●(Steady)
&	LED Strobe	•				•(Steady)	•(Oleady)
Operation	LED Simulated revolving	1					
	Xenon Strobe	•	•	•	•		
M	ounting type	Self stand	Self stand	Self stand	Self stand	Wall mount	Wall mount
(Cable entry	1/2"PF	1/2"PF	1/2"PF	1/2"PF	M12-5PIN connector	M12-5PIN connecto
Pro	tection rating	IP66	IP66	IP66	IP66	IP68	IP68
	Certificates	KIMM, ABS, CE	KIMM, ABS, CE	CE	CE	-	-
Customization		Built-in cable gland, Cable entry : 3/4"PF, Brass housing	Built-in cable gland, Cable entry : 3/4"PF, Brass housing	Built-in cable gland, 2 ways terminal box, Cable entry : 3/4"PF, Brass housing	Built-in cable gland, 2 ways terminal box, Cable entry: 3/4"PF, Brass housing	C10 cable	C10 cable
	Transistor						













		1200	629	419	and the second	den.	100
Mode	number(Series)	SED	SEDP	SD	SDP	SMD	SMDP
	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
	Diameter	Ø119(Lens)	Ø135(Cage)	Ø138(Lens)	Ø158(Cage)	Ø138(Lens)	Ø158(Cage)
Dimension (mm)	Height	380	390	410	424	462	476
(11111)	Depth	175	175	175	175	210	210
	Materials	Lens-PC Housing-Al	Lens-PC Housing-Al	Lens-PC Housing-Al	Lens-PC Housing-Al	Lens-PC Housing-Al	Lens-PC Housing-Al
	Bulb Steady/Flashing Bulb Revolving	_	_	_	_		_
Light	LED Revolving	•				•	
source &	LED Steady/Flashing LED Strobe	•	•	•	•	•	•
Operation	LED Simulated revolving						
	Xenon Strobe	•	•	•	•	•	•
	Hi buzzer						
Sound	15 signal sounds	Max. 118dB at 1m	Max. 118dB at 1m	Max. 118dB at 1m	Max. 118dB at 1m	Max. 120dB at 1m	Max. 120dB at 1m
pattern	Voice signal	Max. 113dB at 1m	Max. 113dB at 1m	Max. 113dB at 1m	Max. 113dB at 1m	Max. 115dB at 1m	Max. 115dB at 1m
dB	30 signal sounds 31 signal sounds MP3						
N/	ounting type	Wall mount	Wall mount	Wall mount	Wall mount	Wall mount	Wall mount
	Cable entry	1/2"PF	1/2"PF	1/2"PF	1/2"PF	1/2"PF	1/2"PF
	otection rating	IP66	IP66	IP66	IP66	IP66	IP66
	Certificates	CE, KIMM, KR, CCS, ABS	CE, KIMM, KR, CCS, ABS	CE, KR, KIMM, LR, ABS	CE, KR, KIMM, LR, ABS	-	-
C	ustomization	Built-in cable gland, 2 ways terminal box, Cable entry: 3/4°PF, External signal sound line	Built-in cable gland, 2 ways terminal box, Cable entry: 3/4"PF, External signal sound line	Built-in cable gland, 2 ways terminal box, Cable entry : 3/4"PF, External signal sound line, Brass housing	Built-in cable gland, 2 ways terminal box, Cable entry: 3/4"PF, External signal sound line, Brass housing	Built-in cable gland, 2 ways terminal box, Cable entry : 3/4"PF, External signal sound line, Brass housing	Built-in cable gland, 2 ways terminal box, Cable entry : 3/4"PF, External signal sound line, Brass housing
	Transistor	NPN type	NPN type	NPN type	NPN type	NPN type	NPN type















Mode	I number(Series)	SCDF	SCDW	SHD	SHDP	SHD2	SHD2P
	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
	Diameter	Ø140(Cage)	Ø140(Cage)	Ø119(Lens)	Ø135(Cage)	Ø119(Lens)	Ø135(Cage)
Dimension (mm)	Height	322	313	227	237	227	237
(111111)	Depth	167(Length)	177	255(Length)	255(Length)	343(Length)	343(Length)
	Materials	Lens-PC Housing-PC+GF	Lens-PC Housing-PC+GF	Lens-PC Housing-Al	Lens-PC Housing-Al	Lens-PC Housing-Al	Lens-PC Housing-Al
	Bulb Steady/Flashing	-					
Light	Bulb Revolving LED Revolvina	•	•	•	•	•	•
source	LED Steady/Flashing	•	•	•	•	•	•
& Operation	LED Strobe LED Simulated revolving						
	Xenon Strobe	•	•	•	•	•	•
	Hi buzzer						
Sound	15 signal sounds	Max. 118dB at 1m	Max. 118dB at 1m	Max. 118dB at 1m	Max. 118dB at 1m	Max. 118dB×2 at 1m	Max. 118dB×2 at 1r
oattern / dB	Voice signal 30 signal sounds 31 signal sounds MP3	Max. 113dB at 1m	Max. 113dB at 1m	Max. 113dB at 1m	Max. 113dB at 1m	Max. 113dB×2 at 1m	Max. 113dB×2 at 1r
M	lounting type	Self mount	Wall mount	Self mount	Self mount	Self mount	Self mount
	Cable entry	1/2"PF	1/2"PF	1/2"PF	1/2"PF	1/2"PF	1/2"PF
Pro	otection rating	IP66	IP66	IP66	IP66	IP66	IP66
	Certificates	KIMM, KR, CE	KIMM, KR, CE	KIMM, ABS, CE	KIMM, ABS, CE	KIMM, ABS	KIMM, ABS
Customization		Built-in cable gland, Cable entry : 3/4"PF, External signal sound line	Built-in cable gland, Cable entry : 3/4"PF, External signal sound line	Built-in cable gland, Cable entry: 3/4"PF, External signal sound line, Brass housing	Built-in cable gland, Cable entry: 3/4"PF, External signal sound line, Brass housing	Built-in cable gland, Cable entry: 3/4"PF, External signal sound line, Brass housing	Built-in cable gland, Cable entry : 3/4*PF, External signal sound lir Brass housing
	Transistor	NPN Type	NPN Type	NPN Type	NPN Type	NPN Type	NPN Type





Model	number(Series)	QWCD35	QWCD50		
	Voltage	DC12V-DC24V AC110V-220V	DC12V, DC24V AC110V-220V		
D'	Diameter	136×179	168×222		
Dimension (mm)	Height				
(11111)	Depth	126	163		
	Materials	Horn-PC Housing-ABS	Horn-PC Housing-ABS		
	Bulb Steady/Flashing				
	Bulb Revolving				
source	LED Revolving LED Steady/Flashing				
&	LED Strobe		•		
Operation	LED Simulated revolving				
	Xenon Strobe				
	Hi buzzer				
	15 signal sounds				
	Voice signal				
	30 signal sounds				
	31 signal sounds	Max. 115dB at 1m	Max. 123dB at 1m		
	MP3	Max. 113dB at 1m	Max. 118dB at 1m		
	ounting type	Wall Mount	Wall Mount		
	Cable entry	Ø21	Ø21		
	tection rating	IP66	IP66		
(Certificates	CE, UL	CE, UL		
Cı	ustomization	External signal sound line	External signal sound line		
	Transistor	NPN Type	NPN Type		









Model	number(Series)	SC1	SC2	SC3		
	Voltage	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V		
	Diameter	150(Width)	174(Width)	244(Width)		
Dimension (mm)	Height	287	312	381		
(11111)	Depth	200	232	292		
	Materials	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-PC Housing-Al		
	Bulb Steady/Flashing Bulb Revolving	•	•	•		
Light	LED Revolving	•	•	•		
source &	LED Steady/Flashing	•	•	•		
Operation	LED Strobe	•	•	•		
	LED Simulated revolving	•	•	•	 	
	Xenon Strobe	•	•	•		
	Hi buzzer					
	15 signal sounds	Max. 108dB at 1m	Max. 115dB at 1m	Max. 120dB at 1m		
	Voice signal	Max. 98dB at 1m	Max. 108dB at 1m	Max. 115dB at 1m	 	
	30 signal sounds 31 signal sounds					
	MP3					
М	ounting type	Wall mount	Wall mount	Wall mount		
	Cable entry	-	-	1/2"PF		
	tection rating	IP44	IP44	IP56		
	Certificates					
Cı	ustomization					
	Transistor					









number(Series)	SANA200	SANA400	SANA700	QEB						
Voltage	DC24V AC110V, AC220V	DC24V AC110V, AC220V	DC24V AC110V, AC220V	DC24V AC110V, AC220V						
Diameter	Ø146(Horn)	Ø110(Horn)	Ø101(Horn)	120×120						
Height	222	222	222	-						
Depth	333	193	144	119						
Materials	Horn-PC Solenoid Box-ABS	Horn-PC Solenoid Box-ABS	Horn-PC Solenoid Box-ABS	Housing, Cover-Al						
Volume	Max. 130dB at 1m	Max. 130dB at 1m	Max. 130dB at 1m	-						
unting type	Wall mount	Wall mount	Wall mount	Wall mount						
able entry	20C, 10C nipple(Air)	20C, 10C nipple(Air)	20C, 10C nipple(Air)	1/2" NPT, 10C nipple(Air)						
ection rating	IP56	IP56	IP56	IP66						
ertificates	KIMM	KIMM	KIMM	KIMM						
stomization	Separate design between hom and solenoid box, Non return valve, Built-in Y filter	Separate design between horn and solenoid box Non return valve, Built-in Y filter	Separate design between hom and solenoid box, Non return valve, Built-in Y filter	Built-in Ex-Proof cable gland, 2 ways entries, Cable entry : 3/4" NPT						
	Voltage Diameter Height Depth Materials Volume Funting type able entry section rating ertificates	Voltage DC24V AC110V, AC220V Diameter Ø146(Horn) Height 222 Depth 333 Materials Horn-PC Solenoid Box-ABS Volume Max. 130dB at 1m runting type Wall mount able entry 20C, 10C nipple(Air) ection rating IP56 retrificates KIMM Separate design between hom and solenoid box, Non return valve,	Voltage DC24V AC110V, AC220V DC24V AC110V, AC220V Diameter Ø146(Horn) Ø110(Horn) Height 222 222 Depth 333 193 Materials Horn-PC Solenoid Box-ABS Horn-PC Solenoid Box-ABS Volume Max. 130dB at 1m Max. 130dB at 1m unting type Wall mount Wall mount able entry 20C, 10C nipple(Air) 20C, 10C nipple(Air) ection rating IP56 IP56 ertificates KIMM KIMM stomization Separate design between horn and solenoid box, Non return valve, Non return valve,	Voltage DC24V AC110V, AC220V DC24V AC110V, AC220V DC24V AC110V, AC220V Diameter Ø146(Horn) Ø110(Horn) Ø101(Horn) Height 222 222 222 Depth 333 193 144 Materials Horn-PC Solenoid Box-ABS Horn-PC Solenoid Box-ABS Horn-PC Solenoid Box-ABS Volume Max. 130dB at 1m Max. 130dB at 1m Max. 130dB at 1m Junting type Wall mount Wall mount Wall mount Jable entry 20C, 10C nipple(Air) 20C, 10C nipple(Air) 20C, 10C nipple(Air) Jection rating IP56 IP56 IP56 Jertificates KIMM KIMM KIMM Separate design between hom and solenoid box, Non return valve, Non return valve, Separate design between hom and solenoid box, Non return valve,						















Mode	I number(Series)	QWH35	QWH50	SN	SEHN25	SEHN50	SEWN30E
	Voltage	DC12V-DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
Dimension	Diameter	136×179	168×222	Ø119(Horn)	Ø158(Horn)	Ø167(Horn)	Ø120(Horn)
(mm)	Height						
	Depth	126	163	167(Length)	238(Length)	242(Length)	175
	Materials	Horn-PC Housing-ABS	Horn-PC Housing-ABS	Housing-Steel	Housing-Steel	Housing-Steel	Housing-Al Horn Housing-PC
	15 signal sounds			Max. 105dB at 1m	Max. 115dB at 1m	Max. 120dB at 1m	Max. 118dB at 1m
Sound pattern	Voice signal			Max. 95dB at 1m	Max. 108dB at 1m	Max. 115dB at 1m	Max. 113dB at 1m
palleiii /	30 signal sounds						
dB	31 signal sounds	Max. 115dB at 1m	Max. 123dB at 1m				
uD.	MP3	Max. 113dB at 1m	Max. 118dB at 1m				
M	ounting type	Wall mount	Wall mount	Self stand	Self stand	Self stand	Wall mount
(Cable entry	Ø21	Ø21	Ø10	Ø21	Ø21	1/2"PF
Pro	otection rating	IP66	IP66	IP55	IP55	IP55	IP56
(Certificates	CE	CE	KIMM	KIMM	KIMM	KIMM, ABS, CCS, CE
С	ustomization	-	-	External signal sound line	External signal sound line	External signal sound line	Built-in cable gland, Cable entry : 3/4"PF, External signal sound line Brass housing
	Transistor	NPN type	NPN type	NPN type	NPN type	NPN type	NPN type













			410			900	
Model	number(Series)	SEWN30L	SEWN30T	SEWN50E	SEWN50L	SEWN50T	SHDN30
	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
Dimension	Diameter	Ø120(Horn)	Ø120(Horn)	Ø172(Horn)	Ø172(Horn)	Ø172(Horn)	Ø120(Horn)
(mm)	Height	-	223	-	-	272	134
(111111)	Depth	170(Length)	175	208	203(Length)	208	335(Length)
	Materials	Housing-Al Horn Housing-PC	Housing-Al Horn Housing-PC	Housing-Al Horn Housing-STS316L	Housing-Al Horn Housing-STS316L	Housing-Al Horn Housing-STS316L	Housing-Al Horn Housing-PC
	15 signal sounds	Max. 118dB at 1m	Max. 118dB at 1m	Max. 120dB at 1m	Max. 120dB at 1m	Max. 120dB at 1m	Max. 118dB at 1m×2
Sound	Voice signal	Max. 113dB at 1m	Max. 113dB at 1m	Max. 115dB at 1m	Max. 115dB at 1m	Max. 115dB at 1m	Max. 113dB at 1m×2
pattern / dB	30 signal sounds 31 signal sounds MP3						
М	ounting type	Self stand	Wall mount	Wall mount	Self stand	Wall mount	Self stand
(Cable entry	1/2"PF	1/2"PF	1/2"PF	1/2"PF	1/2"PF	1/2"PF
Pro	tection rating	IP56	IP56	IP56	IP56	IP56	IP56
(Certificates	CE	CE	CE, KIMM, ABS	CE	CE	-
Cı	ustomization	Built-in cable gland, Cable entry: 3/4"PF, External signal sound line, Brass housing	Built-in cable gland, 2 ways terminal box, Cable entry: 3/4"PF, External signal sound line, Brass housing	Built-in cable gland, Cable entry : 3/4"PF, External signal sound line, Brass housing	Built-in cable gland, Cable entry : 3/4"PF, External signal sound line, Brass housing	Built-in cable gland, 2 ways terminal box, Cable entry: 3/4"PF, External signal sound line, Brass housing	External signal sound line, Cable entry: 3/4"PF
	Transistor	NPN Type	NPN Type	NPN Type	NPN Type	NPN Type	NPN Type













Model number(Series)	SM30	SM40	SM200	SM400	SAB130	SAB200
Voltage	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC24V AC110V, AC220V	DC24V AC110V, AC220V	DC24V AC110V, AC220V	DC24V AC110V, AC220V
Diameter	Ø77	Ø128	Ø143	Ø165	Ø130(Bell)	Ø200(Bell)
imension (mm) Height	-	-	-	-	238	269
Depth	82(Length)	162(Length)	231(Length)	284(Length)	107	107
Materials	Housing-Steel	Housing-ABS	Housing-Steel	Housing-Steel	Bell-Steel Housing-ABS	Bell-Steel Housing-ABS
Volume	Max. 110dB at 1m	Max. 116dB at 1m	Max. 120dB at 1m	Max. 123dB at 1m	Max. 95dB at 1m	Max. 95dB at 1m
Mounting type	Self stand	Self stand	Self stand	Self stand	Wall mount	Wall mount
Cable entry	Ø22	Ø22	Ø9	Ø22	Ø26	Ø26
Protection rating	IP44	IP44	IP44	IP44	IP56	IP56
Certificates	-	-	CE	-	-	-
Customization	-	-	-	-	2 ways cable entries	2 ways cable entries



Explosion Proof Type Specification List













		101 101 101					
Model i	number(series)	ST45ML-Ex	QTEX	SNE	SE	SEA	SSEL
	Voltage	AC/DC12V AC/DC24V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
[Diameter	Ø45	Ø144	Ø152(Cage)	Ø155(Cage)	Ø167(Cage)	154×154
imension (mm)	-leight	114-278	472(Self stand) 457(Wall mount)	226	267	287	100
[Depth	-	155(Wall mount)	189(Length)	189(Length)	172(Length)	172(Length)
N	Materials	Lens-PC Housing-PC	Lens-Tempered glass Housing-Al	Lens-Tempered glass Housing-Al	Lens-Tempered glass Housing-Brass	Lens-Tempered glass Housing-Al	Lens-Tempered glass Housing-Al
	Bulb Steady/Flashing					-	
Ligiti	Bulb Revolving .ED Revolving			•	•	•	
& L	.ED Steady/Flashing .ED Strobe	●(Steady)	•	•	•	•	●(Steady)
	.ED Simulated revolving Kenon Strobe			•	•	•	
M	ount type	Self stand	Self stand, Wall mount	Self stand	Self stand	Self stand	Self stand
	able entry	-	3/4" NPT	1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT
Prote	ection rating	IP54	IP66	IP66	IP66	IP66	IP66
Us	sage area	ZONE 2	ZONE 1, ZONE 2	ZONE 1, ZONE 2	ZONE 1, ZONE 2	ZONE 1, ZONE 2	ZONE 1, ZONE 2
C	ertificates	NEPSI, KGS	IECEx	IECEx, ATEX, NEPSI, KIMM, KOSHA, CCS	KIMM, ABS	IECEX, ATEX, NEPSI, KIMM, KOSHA, ABS, CCS, KR	KIMM, ABS
Explosi	ion proof rating	Ex nR II T4 (KGS)	Ex d IIC T6 Gb (IECEx)	Ex d IIC T6 Gb (IECEx)	Ex d ∐C T6 (KIMM)	Ex d IIC T6 Gb (IECEx)	Ex d IICT6 (KIMM)
Cus	stomization	-	Explosion proof cable gland, 2 ways cable entry, Cable entry	Explosion proof cable gland, 2 ways cable entry, Cable entry: M20x1.5	Explosion proof cable gland, 2 ways cable entry, Cable entry: 3/1" NPT, M20x1.5	Explosion proof cable gland, 2 ways cable entry, Cable entry: ¾" NPT, M20x1.5, M25x1.5	Explosion proof cable gland, 2 ways cable entry, Cabl entry: 3/4" NPT, M20x1.5 M25x1.5
ıΤ	ransistors	NPN/ PNP Type	PNP Type	-	-	-	-













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Model	number(series)	STB45ML-Ex	QTEXB	SNES	SESA	SEBA	SPNA
	Voltage	AC/DC12V AC/DC24V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
	Diameter	Ø45	Ø144	Ø152(Cage)	Ø167(Cage)	Ø167(Cage)	Ø134(Horn)
Dimension (mm)	Height	153-317	472(Self stand) 457(Wall mount)	226	333	333	158
	Depth	-	155(Wall mount)	189(Length)	327(Length)	240(Length)	327(Length)
	Materials	Lens-PC Housing-PC	Lens-Tempered glass Housing-Al	Lens-Tempered glass Housing-Al	Lens-Tempered glass Housing-Al	Lens-Tempered glass Housing-Al	Horn-STS316L Housing-Al
	Bulb Steady/Flashing	· · · · · · · · · · · · · · · · · · ·					
	Bulb Revolving LED Revolvina			•	•	•	
source :	LED Steady/Flashing LED Strobe	●(Steady)	•	•	•	•	
	LED Simulated revolving Xenon Strobe			•	•	•	
	1 tone Buzzer	Max. 80dB at 1m	Max. 102dB at 1m	Max. 105dB at 1m			
Oounu :	15 signal sounds Bell				Max. 118dB at 1m	Max. 95dB at 1m	Max. 118dB at 1m
/ dB	Voice signal 30 signal sounds 31 signal sounds MP3				Max. 113dB at 1m	wax. 5000 at iii	Max. 113dB at 1m
N	Nount type	Self stand	Self stand, Wall mount	Self stand	Self stand	Self stand	Self stand
C	Cable entry	-	3/4" NPT	1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT
Pro	tection rating	IP54	IP66	IP66	IP66	IP55	IP66
U	Jsage area	ZONE 2	ZONE 1, ZONE 2	ZONE 1, ZONE 2	ZONE 1, ZONE 2	ZONE 1, ZONE 2	ZONE 1, ZONE 2
(Certificate	NEPSI, KGS	IECEx	IECEX, ATEX, NEPSI, KIMM, KOSHA, CCS	IECEX, ATEX, NEPSI, KIMM, KOSHA, ABS, CCS, KR	KIMM, ABS, KR	IECEX, ATEX, NEPSI, KIMM, KOSHA, ABS, CCS, KR
Explosion proof rating		Ex nR II T4 (KGS)	Ex d IIC T6 Gb (IECEx)	Ex d IIC T6 Gb (IECEx)	Ex d IIC T6 Gb (IECEx)	Ex d IICT6 (KIMM)	Ex d IIC T6 Gb (IECEx)
Cu	ıstomization	-	Explosion proof cable gland, 2 ways cable entry, Cable entry	Explosion proof cable gland, 2 ways cable entry, Cable entry: M20x1.5, 7 tone Buzzer	Explosion proof cable gland, 2 ways cable entry, Cable entry: 34" NPT, M20x1.5, M25x1.5	Explosion proof cable gland, 2 ways cable entry, Cable entry: 3/4" NPT, M20x1.5, M25x1.5	Explosion proof cable gland, 2 ways cable entry, Cable entry: 3/4" NPT, M20x1.5, M25x1.5



Explosion Proof Type Specification List









					-	
Mode	I number(series)	QEAL1	QEAL2	SBE130	SBE150	
	Voltage	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC24V AC110V, AC220V	DC24V AC110V, AC220V	
	Diameter	Ø152(Cage)	Ø167(Cage)	Ø120(Bell)	Ø150(Bell)	
Dimension (mm)	Height	226	287	120	120	
	Depth	189(Length)	172(Length)	138(Length)	138(Length)	
	Materials	Lens-Tempered glass Housing-Al	Lens-Tempered glass Housing-Al	Bell-Al Housing-Al	Bell-Al Housing-Al	
Light source & Operation	Bulb Steady/Flashing Bulb Revolving LED Revolving LED Steady/Flashing LED Strobe LED Simulated revolving Xenon Strobe	●(Steady)	• (Flashing)			
Sound Pattern / dB	1 tone Buzzer 15 signal sounds Bell Voice signal 30 signal sounds 31 signal sounds MP3			Max. 95dB at 1m	Max. 95dB at 1m	
	Mount type	Self stand	Self stand	Self stand	Self stand	
(Cable entry	1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT	
	otection rating	IP66	IP66	IP56	IP56	
	Jsage area	ZONE 1, ZONE 2	ZONE 1, ZONE 2	ZONE 1, ZONE 2	ZONE 1, ZONE 2	
	Certificate	KOSHA	KOSHA	KIMM	KIMM	
Explo	sion proof rating	Ex d IICT4 (KOSHA)	Exd IICT4 (KOSHA)	Ex d ∐C T6 (KIMM)	Ex d IICT6 (KIMM)	
С	ustomization	Explosion proof cable gland, 2 ways cable entry, M20x1.5	Explosion proof cable gland, 2 ways cable entry, Cable entry: 3/" NPT, M20x1.5, M25x1.5	Explosion proof cable gland, 2 ways cable entry, Cable entry: ¾" NPT, M20x1.5, M25x1.5	Explosion proof cable gland, 2 ways cable entry, Cable entry: 3/" NPT, M20x1.5, M25x1.5	
	Transistors	-	-	-	-	

Explosion Proof LED Work Lights



Model	l Number(series)	QMFL-300-Ex-24		
	Voltage	DC24V		
Consumption of electrical power		10W		
	Length	290		
Dimension (mm)	Width	38		
(111111)	Height	64		
	Material	Housing : Al, Lens : Tempered glass		
	Lens color	Translucent		
ı	Lamp color	Cool white		
Intensity of	of illumination(at 1m)	260Lux		
	Mounting	Mount bracket		
Pro	otection rating	IP67/ IP69K		
(Certificates	KC(KGS)		
Explos	sion Proof Rating	Ex nR Ⅱ T6		
Cı	ustomization			

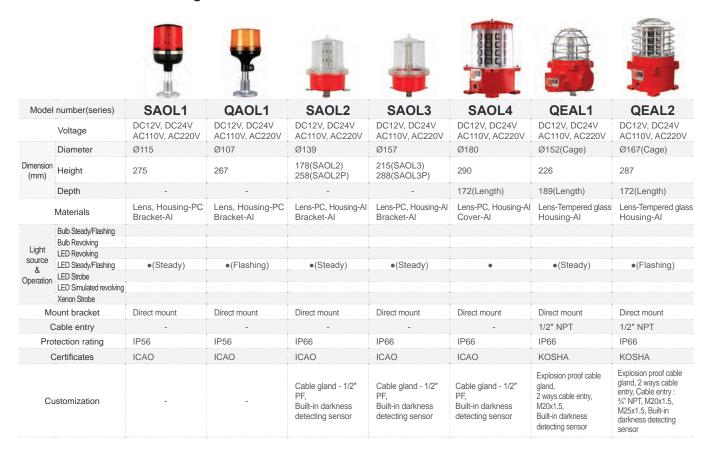


Warning Light Bars & Aviation Obstruction Lights

Warning Light Bars



Aviation Obstruction Lights



















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Model	number(series)	STA25SLM	STA35SL	STA35SLM	STA45SLM	STA45SLMP	QT56HEX	QTA56L
	Voltage	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V	DC24V	DC24V
S	Diameter	Ø25	Ø35	Ø35	Ø45	Ø45	52	52
Dimension (mm)	Height Depth	368-488	85-265	205-385	198-378	398-568	397-434	435
	Materials	Lens-AS Housing-Al	Lens-AS Housing-ABS	Lens-AS Housing-Al	Lens-Acryl Inner lens-AS Housing-Al	Lens-Acryl Inner lens-AS Housing-Al	Lens-PC Housing-Al	Lens-PC Housing-Al
	Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-3 Layers	1-3 Layers
Light	Bulb Steady/Flashing LED Steady	•	•	•	•	•	•	•
source &	LED Steady/Flashing LED Strobe							
	LED Simulated revolving							
Sound & Volume	1 buzzer sound				Max. 90dB at 1m	Max. 90dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m
Laye	r color change	No	No	No	No	No	No	No
Mo	ount bracket	Direct mount	Direct mount	Direct mount	Direct mount	Pole mount	Direct mount	Direct mount
	Bracket	STAWB25	STAWB25	STAWB25	STAWB45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18	-	-
Pro	tection rating	IP44	IP44	IP44	IP23(Buzzer type), IP44(Standard)	IP23(Buzzer type), IP44(Standard)	IP23(Buzzer type), IP44(Standard)	IP54(Buzzer type), IP64(Standard)
(Certificates	-	-	-	CE, UL	CE, UL	-	-
Cı	ıstomization	Same lens color with LED, Wall mount bracket	Wall mount bracket	Wall mount bracket	Wall mount bracket	Pole length adjustment	-	-
	Transistor	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type















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Model	number(series)	SWT	SWTE	QWT	ST45MB	ST45B	ST56MB	ST56B
	Voltage	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V~AC220V	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V
	Diameter	Ø90(Half)	Ø90(Half)	Ø70	Ø45	Ø45	Ø56	Ø56
imension (mm)	Height	216	216	122-286	116-362	330-576	157-502	371-716
(111111)	Depth	46	46	76	-	-	-	-
	Materials	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
	Layers	2-3 Layers	2-3 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
	Bulb Steady/Flashing				•	•	•	•
9	LED Steady LED Steady/Flashing	•	•	•				
Operation	LED Strobe LED Simulated revolving							
Sound & Volume	1 buzzer sound	Max. 90dB at 1m	Max. 90dB at 1m	Max. 85dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m
Laye	r color change	No	No	Yes	Yes	Yes	Yes	Yes
Mo	unt bracket	Wall mount	Wall mount	Wall mount	Direct mount	Pole mount	Direct mount	Pole mount
	Bracket	-	-	-	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18
Pro	tection rating	IP55	IP55	IP54	IP23(Buzzer type), IP44(Standard)	IP23(Buzzer type), IP44(Standard)	IP23(Buzzer type), IP44(Standard)	IP23(Buzzer type), IP44(Standard)
C	ertificates	CE, UL	CE, UL	CE	CE	CE	CE	CE
Cu	stomization	Color combination except for standard, 2 buzzer sounds, Transparent inner lens	Color combination except for standard, 2 buzzer sounds, Transparent inner lens	Color combination except for standard	Wall mount bracket, 2 Buzzer sounds	Pole length adjustment, 2 Buzzer sounds	Wall mount bracket, 2 buzzer sounds	Pole length adjustment, 2 buzzer sounds
-	Francistor	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	_	_	_	_















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Model	number(series)	ST80MB	ST80B	ST45ML	ST45L	ST56MEL	ST56EL
	Voltage	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V
D'	Diameter	Ø80	Ø80	Ø45	Ø45	Ø56	Ø56
Dimension (mm)	Height	180-460	317-597	106-358	320-572	127-352	341-566
(111111)	Depth	-	-				
	Materials	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
	Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light	Bulb Steady/Flashing LED Steady	•	•				
source &	LED Steady/Flashing LED Strobe			•	•	•	•
	LED Simulated revolving						
Sound &	1 buzzer sound	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m
Volume	5 signal sounds	-	-	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m
Laye	r color change	Yes	Yes	Yes	Yes	Yes	Yes
M	ount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
	Bracket	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24, QLA24	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18
Pro	tection rating	IP23(Buzzer type), IP44(Standard)	IP23(Buzzer type), IP44(Standard)	IP23(Buzzer type), IP44(Standard)	IP23(Buzzer type), IP44(Standard)	IP23(Buzzer type), IP44(Standard)	IP23(Buzzer type), IP44(Standard)
(Certificates	-	-	CE, UL	CE, UL	CE, UL	CE, UL
Cı	ustomization	Wall mount bracket, 2 buzzer sounds	Pole length adjustment, 2 buzzer sounds	2 buzzer sounds, Wall mount bracket, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Pole length adjustment, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Wall mount bracket, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Pole length adjustment, AC each layer power supplied, DC24V UL listed
	Transistor	-	-	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type









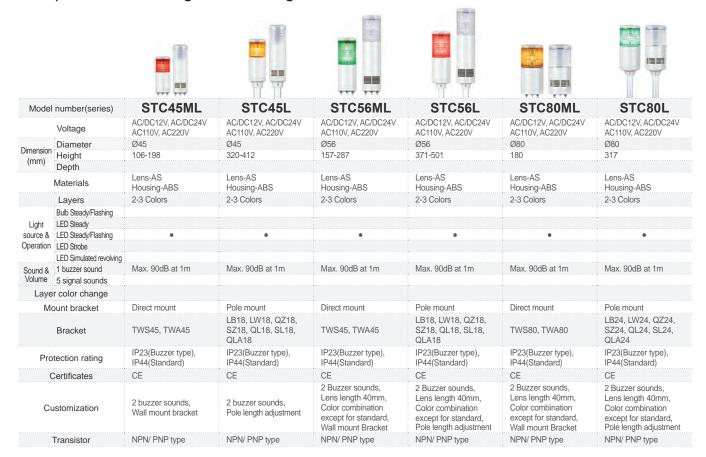




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Model	number(series)	ST56ML	ST56L	ST80MEL	ST80EL	ST80ML	ST80L
	Voltage	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V	AC/DC12V AC/DC24V AC110V, AC220V
	Diameter	Ø56	Ø56	Ø80	Ø80	Ø80	Ø80
imension (mm)	Height	157-502	371-716	150-310	287-447	180-460	317-597
(111111)	Depth						
	Materials	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
	Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light	Bulb Steady/Flashing LED Steady						
ource & peration	LED Steady/Flashing LED Strobe LED Simulated revolving	•	•	•	•	•	•
Sound &	1 buzzer sound	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m
	5 signal sounds	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m
Laye	r color change	Yes	Yes	Yes	Yes	Yes	Yes
Мс	ount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
	Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24, QLA24	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24, QLA24
Pro	tection rating	IP23(Buzzer type), IP44(Standard)	IP23(Buzzer type), IP44(Standard)	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)
C	Certificates	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL
Cu	stomization	2 buzzer sounds, Wall mount bracket, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Pole length adjustment, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Wall mount bracket, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Pole length adjustment, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Wall mount bracket, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Pole length adjustment, AC each layer power supplied, DC24V UL listed
-	Transistor	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type



Multiple Color LED Signal Tower Lights















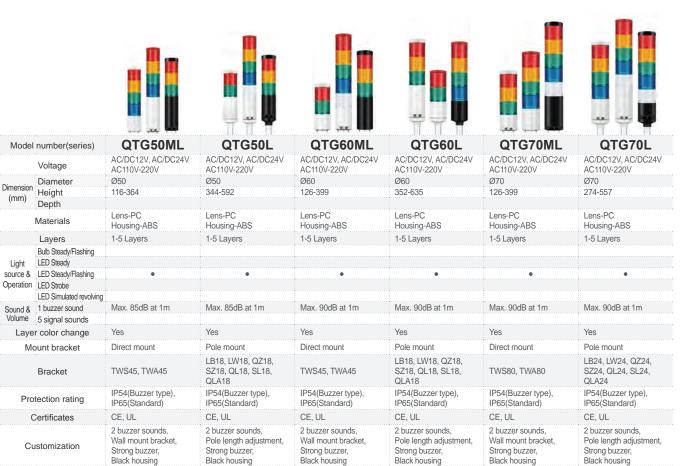
				Ann Age Age		and head head	
Model	number(series)	QT56MCL	QT56MCLH	STG40ML	STG40L	STG50ML	STG50L
	Voltage	DC24V	DC24V	AC/DC12V, AC/DC24V AC110V-220V	AC/DC12V, AC/DC24V AC110V-220V	AC/DC12V, AC/DC24V AC110V-220V	AC/DC12V, AC/DC24V AC110V-220V
	Diameter	52	52	Ø40	Ø40	Ø50	Ø50
Dimension (mm)	Height	276	317	111-339	339-567	106-314	334-542
()	Depth						
	Materials	Lens-PC Housing-Al	Lens-PC Housing-Al	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
	Layers	7 Colors	7 Colors	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
	Bulb Steady/Flashing						
Light	LED Steady	•	•				
	LED Steady/Flashing LED Strobe			•	•	•	•
	LED Simulated revolving						
	1 buzzer sound	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m
Volume	5 signal sounds						
Laye	r color change	-	-	Yes	Yes	Yes	Yes
M	ount bracket	Pole mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
	Bracket	-	-	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18
Pro	tection rating	IP23(Buzzer type), IP44(Standard)	IP23(Buzzer type), IP44(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)
(Certificates	-	-	CE	CE	CE	CE
Cı	ustomization	-	-	Wall mount bracket, 2 buzzer sounds	2 buzzer sounds, Pole length adjustment	Wall mount bracket, 2 buzzer sounds	2 buzzer sounds, Pole length adjustment
	Transistor	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type



NPN/ PNP type

Transistor

NPN/ PNP type





NPN/ PNP type

NPN/ PNP type

NPN/ PNP type

Model	number(series)	QTC50ML	QTC50L	QTC60ML	QTC60L	QTC70ML	QTC70L
	Voltage	AC/DC12V, AC/DC24V AC110V-220V	AC/DC12V, AC/DC24V AC110V-220V	AC/DC12V, AC/DC24V AC110V-220V	AC/DC12V, AC/DC24V AC110V-220V	AC/DC12V, AC/DC24V AC110V-220V	AC/DC12V, AC/DC24V AC110V-220V
N	Diameter	Ø50	Ø50	Ø60	Ø60	Ø70	Ø70
imension (mm)	Height Depth	116-364	344-592	126-399	352-635	126-399	274-557
	Materials	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS
	Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light	Bulb Steady/Flashing LED Steady						
	LED Steady/Flashing	•	•	•	•	•	•
Operation	LED Strobe LED Simulated revolving						
Sound &	1 buzzer sound	Max. 85dB at 1m	Max. 85dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m
	5 signal sounds						
Laye	r color change	Yes	Yes	Yes	Yes	Yes	Yes
Мо	ount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
	Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24, QLA24
Pro	tection rating	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)
C	Certificates	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL
Cı	ıstomization	2 buzzer sounds, Wall mount bracket, Strong buzzer, Black housing	2 buzzer sounds, Pole length adjustment,, Strong buzzer, Black housing	2 buzzer sounds, Wall mount bracket, Strong buzzer, Black housing	2 buzzer sounds, Pole length adjustment, Strong buzzer, Black housing	2 buzzer sounds, Wall mount bracket, Strong buzzer, Black housing	2 buzzer sounds, Pole length adjustment Strong buzzer, Black housing
	Transistor	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type

NPN/ PNP type













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number(series)	QTR50ML	QTR50L	QTR60ML	QTR60L	QTR70ML	QTR70L
Voltage	AC/DC12V, AC/DC24V AC110V-220V	AC/DC12V, AC/DC24V AC110V-220V	AC/DC12V, AC/DC24V AC110V-220V	AC/DC12V, AC/DC24V AC110V-220V	AC/DC12V, AC/DC24V AC110V-220V	AC/DC12V, AC/DC24V AC110V-220V
Diameter	Ø50	Ø50	Ø60	Ø60	Ø70	Ø70
Height Depth	116-364	344-592	126-399	352-635	126-399	274-557
Materials	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Bulb Steady/Flashing LED Steady						
LED Strobe	•	•	•	•	•	
	Max 85dB at 1m	Max 85dB at 1m	Max 90dB at 1m	Max 90dB at 1m	Max 90dB at 1m	Max. 90dB at 1m
	man odas at mi	man oodb at iii	man coap at m	man code at iii	man coab at m	man coab at m
r color change	Yes	Yes	Yes	Yes	Yes	Yes
ount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24, QLA24
tection rating	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)
Certificates	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL
ustomization	2 buzzer sounds, Wall mount bracket, Strong buzzer	2 buzzer sounds, Pole length adjustment, Strong buzzer	2 buzzer sounds, Wall mount bracket, Strong buzzer	2 buzzer sounds, Pole length adjustment, Strong buzzer	2 buzzer sounds, Wall mount bracket, Strong buzzer	2 buzzer sounds, Pole length adjustment, Strong buzzer
Transistor	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type
	Voltage Diameter Height Depth Materials Layers Bulb Steady/Flashing LED Steady LED Steady LED Strobe LED Simulated revolving 1 buzzer sound 5 signal sounds r color change bunt bracket Bracket tection rating Certificates	Voltage AC/DC12V, AC/DC24V AC110V-220V Diameter Ø50 Height 116-364 Depth Materials Lens-PC Housing-ABS Layers 1-5 Layers Bulb Steady/Flashing LED Steady LED Steady/Flashing LED Simulated revolving 1 buzzer sound Max. 85dB at 1m 5 signal sounds r color change Yes punt bracket Direct mount Bracket TWS45, TWA45 tection rating IP54(Buzzer type), IP65(Standard) Certificates CE, UL strong buzzer sounds, Wall mount bracket, Strong buzzer	Voltage AC/DC12V, AC/DC24V AC110V-220V AC/DC12V, AC/DC24V AC110V-220V Diameter Ø50 Ø50 Height 116-364 344-592 Depth Lens-PC Lens-PC Materials Lens-PC Housing-ABS Layers 1-5 Layers 1-5 Layers Bub Steady/Flashing LED Steady LED Steady LED Steady/Flashing • • LED Stoee LED Smulated revolving Max. 85dB at 1m Max. 85dB at 1m 5 signal sounds r color change Yes Yes bunt bracket Direct mount Pole mount Bracket TWS45, TWA45 S218, LW18, QZ18, SL18, QL18, SL18	Voltage AC/DC12V, AC/DC24V AC110V-220V AC110V-220V AC110V-2309 AC160-399 DC260-399 D	Voltage AC/DC12V, AC/DC24V AC110V-220V AC110V-220V AC10V-220V AC10V-20V AC10V-220V AC10V-220V AC10V-220V AC10V-220V <	Voltage AC/DC12V, AC/DC24V AC110V-220V AC/DC12V, AC/DC24V AC10V-220V AC/DC12V, AC/DC24V AC10V-220V AC/DC12V, AC/DC24V AC10V-220V AC/DC12V, AC/DC24V AC10V-220V AC/DC12V, AC/DC24V AC10V-220V AC/DC12V, AC/DC24V AC/DC12V, AC/DC24V AC/DC12V, AC/DC24V AC/DC12V, AC/DC24V AC/DC12V, AC/DC24V AC/DC12V, AC/DC24V AC/DC12V, A









		m m m				
Model	number(series)	QT50ML	QT50L	QT70ML	QT70L	
	Voltage	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	
D'	Diameter	Ø50	Ø50	Ø70	Ø70	
Dimension (mm)	Height Depth	83-247	297-461	98-322	237-461	
	Materials	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-PC	
	Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	
Light	Bulb Steady/Flashing LED Steady					
	LED Steady/Flashing	•	•	•	•	
Operation	LED Strobe	•	•	•	•	
	LED Simulated revolving	•	•	•	•	
	1 buzzer sound	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	
Volume	5 signal sounds	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	
Laye	r color change	Yes	Yes	Yes	Yes	
Mo	ount bracket	Direct mount	Pole mount	Direct mount	Pole mount	
	Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24, QLA24	
Pro	tection rating	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	
C	Certificates	-	-	CE(Buzzer type only)	CE(Buzzer type only)	
Cı	ustomization	Beige color, Wall mount bracket, LED strobe, LED simnulated revolving	Beige color, Pole length adjustment, LED strobe, LED simulated revolving	Beige color, Wall mount bracket, LED strobe, LED simulated revolving	Beige color, Pole length adjustment, LED strobe, LED simulated revolving	
	Transistor	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	



Specification List for USB LED Tower Lights



		CED CED	77 11	777 777	TIT TIT	111 111	TT TT
Model	number(series)	ST45ML-USB	ST45L-USB	ST56MEL-USB	ST56EL-USB	ST80MEL-USB	ST80EL-USB
	Voltage	USB DC 5V	USB DC 5V	USB DC 5V	USB DC 5V	USB DC 5V	USB DC 5V
	Diameter	Ø45	Ø45	Ø56	Ø56	Ø80	Ø80
Dimension (mm)	Height	198-358	412-572	192-352	406-566	230-390	367-527
(111111)	Depth						
	Materials	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
	Layer	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
	Bulb Steady/Flashing	,					
Light	LED Steady						
	LED Steady/Flashing	•	•	•	•	•	•
Operation	LED Strobe						
	LED Simulated revolving						
Sound &	1 buzzer sound	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m
volume	5 Signal sounds	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m
Laye	r color change	Support	Support	Support	Support	Support	Support
Mo	ount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
	Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18	TWS80, TWA80	LB24, LW24, QZ24 SZ24, QL24, SL24, QLA24
Pro	tection rating	IP23	IP23	IP23	IP23	IP23	IP23
C	Certificates						
Cı	stomization	Customized color arrangements, Wall mount brackets	Customized color arrangements, Customized pole length	Customized color arrangements, 70mm lens height, Wall mount brackets	Customized color arrangements, 70mm lens height, Customized pole length	Customized color arrangements, 70mm lens height, Wall mount brackets	Customized color arrangements, 70mm lens height, Customized pole length



		777 777		777 777		* T * T
Model	number(series)	QT50ML-USB	QT50L-USB	QT70ML-USB	QT70L-USB	STDEL-USB
	Voltage	USB DC 5V	USB DC 5V	USB DC 5V	USB DC 5V	DC12V, DC24V AC110V, AC220V
Dimension	Diameter	Ø50	Ø50	Ø70	Ø70	Ø80(Lens) Ø119(Housing)
(mm)	Height Depth	208-372	422-586	148-372	287-511	204-364
	Materials	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-AS Housing-ABS
	Layer	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light	Bulb Steady/Flashing LED Steady					
source &	LED Steady/Flashing	•	•	•	•	•
Operation	LED Strobe	•	•	•	•	
	LED Simulated revolving	•	•	•	•	
	1 buzzer sound	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	
volume	5 Signal sounds	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 105dB at 1m
Laye	r color change	Support	Support	Support	Support	Support
Mo	ount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount
	Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24, QLA24	-
Pro	tection rating	IP54	IP54	IP54	IP54	IP54
(Certificates					
Cı	stomization	Customized color arrangements, Beige color, LED strobe, LED simulated revolving, Wall mount brackets	Customized color arrangements, Beige color, LED strobe, LED simulated revolving, Customized pole length	Customized color arrangements, Beige color, LED strobe, LED simulated revolving, Wall mount brackets	Customized color arrangements, Beige color, LED strobe, LED simulated revolving, Customized pole length	Customized color arrangements, 70mm lens height



Specification List for Ethernet LED Tower Lights



Model	number(series)	ST45ML-ETN	ST45L-ETN	ST56MEL-ETN	ST56EL-ETN	ST80MEL-ETN	ST80EL-ETN
	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
D	Diameter	Ø45	Ø45	Ø56	Ø56	Ø80	Ø80
Dimension (mm)	Height	244-404	458-618	257-517	471-731	230-390	367-527
(111111)	Depth						
	Materials	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
	Layer	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
9	Bulb Steady/Flashing LED Steady						
	LED Steady/Flashing LED Strobe	•	•	•	•	•	•
	LED Simulated revolving						
Sound &	1 buzzer sound		Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m
volume	5 Signal sounds	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m
Laye	r color change	Support	Support	Support	Support	Support	Support
Me	ount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
	Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QLA18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QLA18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QLA24
Pro	tection rating	IP23	IP23	IP23	IP23	IP23	IP23
Certificates		-	-	-	KCC	-	-
Customization		Customized color arrangements, Wall mount brackets	Customized color arrangements, Customized pole length	Customized color arrangements, 70mm lens height, Wall mount brackets	Customized color arrangements, 70mm lens height, Customized pole length	Customized color arrangements, 70mm lens height, Wall mount brackets	Customized color arrangements, 70mm lens height, Customized pole length



Model	number(series)	QT50ML-ETN	QT50L-ETN	QT70ML-ETN	QT70L-ETN	
	Voltage	DC12V, DC24V	DC12V, DC24V	DC12V, DC24V	DC12V, DC24V	
Dimension	Diameter	Ø50	Ø50	Ø70	Ø70	
(mm)	Height Depth	208-372	422-586	148-372	287-511	
	Materials	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-PC	
	Layer	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	
Light	Bulb Steady/Flashing LED Steady					
	LED Steady/Flashing	•	•	•	•	
Operation	LED Strobe	•	•	•	•	
	LED Simulated revolving	•	•	•	•	
	1 buzzer sound	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	
	5 Signal sounds	Max. 85dB at 1m	Max. 85dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	
Laye	r color change	Support	Support	Support	Support	
Mo	ount bracket	Direct mount	Pole mount	Direct mount	Pole mount	
	Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QLA18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QLA24	
Pro	tection rating	IP54	IP54	IP54	IP54	
Certificates						
Customization		Customized color arrangements, Beige color, LED strobe, LED simulated revolving, Wall mount brackets	Customized color arrangements, Beige color, LED strobe, LED simulated revolving, Customized Pole Lenoth	Customized color arrangements, Beige color, LED strobe, LED simulated revolving, Wall mount brackets	Customized color arrangements, Beige color, LED strobe, LED simulated revolving, Customized Pole Length	



Specification List For Wireless Products

Wireless LED Tower Lights

			M M H	A	T T	
Model	number(series)	QTG60ML-WIZ	QTG60L-WIZ	QTG70ML-WIZ	QTG70L-WIZ	
	Voltage	DC12V, DC24V AC110V, AV220V	DC12V, DC24V AC110V, AV220V	DC12V, DC24V AC110V, AV220V	DC12V, DC24V AC110V, AV220V	
D:	Diameter	Ø60	Ø60	Ø70	Ø70	
Dimension (mm)	Height Depth	126-399	352-635	126-399	274-557	
	Materials	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	
	Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	
Light	Bulb Steady/Flashing LED Steady					
	LED Steady/Flashing LED Strobe	•	•	•	•	
	LED Simulated revolving					
	1 buzzer sound	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	Max. 90dB at 1m	
Volume	5 signal sounds					
Laye	r color change	Yes	Yes	Yes	Yes	
Me	ount bracket	Direct mount	Pole mount	Direct mount	Pole mount	
	Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18, QLA18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24, QLA24	
Pro	tection rating	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	
Сι	ustomization	2 buzzer sounds, Wall mount bracket, Strong buzzer, Black housing	2 buzzer sounds, Pole length adjustment, Strong buzzer, Black housing	2 buzzer sounds, Wall mount bracket, Strong buzzer, Black housing	2 buzzer sounds, Pole length adjustment, Strong buzzer, Black housing	
	Transistor	NPN	NPN	NPN	NPN	
Co	mmunication	Wireless	Wireless	Wireless	Wireless	
						. *************************************

Wireless LED Signal Lights

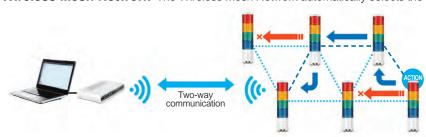


Model number	QMCL100-WIZ	QMCL125-WIZ
Voltage	DC12V, DC24V	DC12V, DC24V
Dimension Diameter	Ø97	Ø116
(mm) Height	95	110
Volume	Max. 80dB at 1m	Max. 80dB at 1m
Materials	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Mount bracket	Self stand	Self stand
Protection rating	IP65	IP65
Customization	Wall mount	Wall mount
Transistor	NPN	NPN
Communication	Wireless	Wireless

Product lists can be equipped with Wireless network

Model number	Voltage	Model number	Voltage
S100L	DC12V/ DC24V	ST45L	DC12V/ DC24V,AC110~220V
S125L	DC12V/ DC24V	ST56(E)L	DC12V/ DC24V,AC110~220V
S150UL	DC12V/ DC24V	STC45L	DC12V/ DC24V,AC110~220V
Q100L	DC12V/ DC24V	STC56L	DC12V/ DC24V,AC110~220V
Q125L	DC12V/ DC24V	QTG60L	DC12V/ DC24V,AC110~220V
MFL100	DC12V/ DC24V	QTG70L	DC12V/ DC24V,AC110~220V
MFL125	DC12V/ DC24V	QTC60L	DC12V/ DC24V,AC110~220V
SMCL100	DC12V/ DC24V	QTC70L	DC12V/ DC24V,AC110~220V
SMCL125	DC12V/ DC24V	QTR60L	DC12V/ DC24V,AC110~220V
QMCL100	DC12V/ DC24V	QTR70L	DC12V/ DC24V,AC110~220V
QMCL125	DC12V/ DC24V	QT50L	DC12V/ DC24V,AC110~220V

• Wireless Mesh Network The Wireless Mesh Network automatically selects the optimal path of communication



Wireless Mesh Network Stable Wireless Route Unstable Wireless Route



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
	Diameter	80×80	120×120	Ø75	Ø83	Ø83	Ø97	Ø97
Dimension (mm)	Height	-	-	158	129	129	137	137
(11111)	Depth	75	69	86	93	93	109	109
	Materials	ABS	ABS	ABS	ABS	ABS	ABS	ABS
Sound	1 Tone Buzzer 5 Signal Sounds Voice	Max. 85dB at 1m		Max. 100dB at 1m		Max. 105dB at 1m		Max. 105dB at 1m
& Volume	30 Signal Sounds 31 Signal Sounds		Max. 98dB at 1m		Max. 100dB at 1m		Max. 100dB at 1m	
	MP3 Other Sound		Max. 95dB at 1m				Max. 95dB at 1m	
Мс	unt bracket	Panel mount	Panel mount	Wall mount	Wall mount	Wall mount	Wall mount	Wall mount
С	aple entry	-	-	-	Ø10	Ø10	Ø10	Ø10
Prof	ection rating	IP23	IP54	IP54	IP65	IP65	IP65	IP65
(Certificates	CE	CE, UL	CE	-	-	-	-
Cu	stomization	-	-	Strong buzzer 105dB	-	-	-	-
7	Fransistor	NPN type	NPN type		NPN type	-	NPN type	-















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
	Diameter	Ø116	Ø116	Ø125	130	130	145×177	145×177
Dimension (mm)	Height	149	149	-	-	-	-	-
(111111)	Depth	132	132	185(Length)	200(Length)	200(Length)	220(Length)	220(Length)
	Materials	ABS	ABS	ABS	ABS	ABS	ABS	ABS
Sound	1 Tone Buzzer 5 Signal Sounds Voice		Max. 105dB at 1m	Max. 108dB at 1m Max. 98dB at 1m	Max. 108dB at 1m Max. 98dB at 1m	Max. 115dB at 1m Max. 108dB at 1m		
& Volume	30 Signal Sounds 31 Signal Sounds	Max. 115dB at 1m					Max. 115dB at 1m	Max. 123dB at 1m
	MP3 Other Sound	Max. 100dB at 1m					Max. 113dB at 1m	Max. 118dB at 1m
Mo	ount bracket	Wall mount	Wall mount	Self stand	Self stand	Self stand	Self stand	Self stand
C	Caple entry	Ø10	Ø10	Ø10	Ø10	Ø10	Ø21	Ø21
Pro	tection rating	IP65	IP65	IP55	IP55	IP55	IP65	IP65
	Certificates	-	-	CE	CE	CE	-	-
Cu	stomization	-	-	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



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
	Diameter	Ø119(Horn)	Ø158(Horn)	Ø167(Horn)	Ø135(Horn)	Ø77	Ø128
Dimension (mm)	Height						
(11111)	Depth	167(Length)	238(Length)	242(Length)	140(Length)	82(Length)	162(Length)
1	Materials	Housing-Steel	Housing-Steel	Housing-Steel	Housing-Steel	Housing-Steel	Housing-ABS
	1 Tone Buzzer						
	5 Signal Sounds	Max. 105dB at 1m	Max. 115dB at 1m	Max. 120dB at 1m	-	-	-
Sound	Voice	Max. 95dB at 1m	Max. 108dB at 1m	Max. 115dB at 1m	-	-	-
&	30 Signal Sounds						
Volume	31 Signal Sounds						
	MP3 Other Sound	-	-	-	Max. 100dB at 1m	Max. 110dB at 1m	Max. 116dB at 1m
Мс	ount bracket	Self stand	Self stand	Self stand	Self stand	Self stand	Self stand
С	aple entry	Ø10	Ø21	Ø21	Ø10	Ø22	Ø22
Prot	ection rating	IP55	IP55	IP55	IP55	IP44	IP44
Certificates		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	-	-	-













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
	Diameter	Ø143	Ø165	Ø130(Bell)	Ø200(Bell)	136×179	168×222
mension (mm)	Height	-	-	238	269	-	-
(11111)	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-ABS	Horn-PC Housing-ABS
Sound &	1 Tone Buzzer 5 Signal Sounds Voice 30 Signal Sounds						
	31 Signal Sounds MP3 Other Sound	- - Max. 120dB at 1m	- - Max. 123dB at 1m	- - Max. 95dB at 1m	- - Max. 95dB at 1m	Max. 115dB at 1m Max. 113dB at 1m	Max. 123dB at 1n Max. 118dB at 1n
Мо	unt bracket	Direct mount	Direct mount	Wall mount	Wall mount	Wall mount	Wall mount
C	aple entry	Ø9	Ø22	Ø26	Ø26	Ø21	Ø21
Prot	ection rating	IP44	IP44	IP56	IP56	IP66	IP66
Certificates		CE					
Customization Transistor		-	-	2 way cable entries	2 way cable entries	-	-
		-	-	-	-	NPN type	NPN type



LED Work Lights for Industrial Purpose Specification List









Mode	el number(series)	QWSL-150	QWSL-250	QWHL-150	QWHL-250	
	Voltage	DC24V	DC24V	DC24V	DC24V 17W	
Consump	tion of electrical power	11W	23W	10W		
Dimension	Direct mount (D type)	150(W)×100(L)×35(H)	250(W)×110(L)×35(H)	150(W)×100(L)×35(H)	250(W)×110(L)×35(H)	
(mm)	Bracket (K type)	150(W)×152(L)×35(H)	250(W)×162(L)×35(H)	150(W)×152(L)×35(H)	250(W)×162(L)×35(H)	
	Material	Housing : Al, Lens : Tempered glass				
	Lens color	Translucent	Translucent	Transparent	Transparent	
	Lamp color	Cool white	Cool white	Cool white	Cool white	
Intensity	of illumination(at 1m)	570Lux	920Lux	3,200Lux	5,200Lux	
	Mounting	Direct mount(D type), Mount bracket(K type)				
Pr	otection rating	IP67	IP67	IP67	IP67	
Certificates Customization		CE	CE	CE	CE	
		M12 connector equipped	M12 connector equipped	M12 connector equipped	M12 connector equipped	









		State of the latest and the latest a	The same of the sa			
Model Nur	mber(series)	QML-150	QML-250	QMHL-150	QMHL-250 DC24V, AC110V, AC220V	
Vol	tage	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V		
Consumption o	f electrical power	11-13W	23-29W	11-12W	23-25W	
	Length	155(W)×105(L)×36(H)	255(W)×115(L)×36(H)	155(W)×105(L)×36(H)	255(W)×115(L)×36(H)	
Dimension (mm)	Width	155(W)×156(L)×36(H)	255(W)×166(L)×36(H)	155(W)×156(L)×36(H)	255(W)×166(L)×36(H)	
(11111)	Height	155(W)×191(L)×36(H)	255(W)×201(L)×36(H)	155(W)×191(L)×36(H)	255(W)×201(L)×36(H)	
Ma	terial	Housing : Al, Lens : Tempered glass	Housing : Al, Lens : Tempered glass	Housing : Al, Lens : Tempered glass	Housing : Al, Lens : Tempered glass	
Lens	s color	Translucent	Translucent	Transparent	Transparent	
Lamp	o color	Cool white	Cool white	Cool white	Cool white	
Intensity of illu	mination(at 1m)	620Lux	890Lux	1,000Lux	1,900Lux	
Мос	unting	Direct mount(D type), Mount bracket(K type), Revolving mount bracket (MF Type)	Direct mount(D type), Mount bracket(K type), Revolving mount bracket (MF Type)	Direct mount(D type), Mount bracket(K type), Revolving mount bracket (MF Type)	Direct mount(D type), Mount bracket(K type), Revolving mount bracket (MF Type)	
Protecti	ion rating	IP67/ IP69K	IP67/ IP69K	IP67/ IP69K	IP67/ IP69K	
Certi	ficates	CE, UL, KC	CE, UL, KC	CE, UL, KC	CE, UL, KC	
Custor	mization	M12 connector equipped	M12 connector equipped	M12 connector equipped	M12 connector equipped	









		AND THE PERSON NAMED IN COLUMN TO PERSON NAM	Fig.			
Model Nui	mber(series)	QFL-200/ 300/ 400/ 500/ 600/ 1200	QFLC-200/ 300/ 400/ 500/ 600/ 1200	QMFL-200/ 300/ 400/ 500/ 600	QMFHL-200/ 300/ 400/ 500/ 600	
Vo	ltage	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V	
Consumption of	of electrical power	5.5-53W	5.5-53W	7.5-32W	6-28W	
	Length	240-1190	240-1190	190-600	190-600	
Dimension (mm)	Width	60	60	38	38	
(11111)	Height	63	63	64	64	
Ma	aterial	Lens : PC, Side cover : Al	Lens : PC, Side cover : Al	Housing : Al, Lens : Tempered glass	Housing : Al, Lens : Tempered glass	
Lens	s color	Translucent	Transparent	Translucent	Transparent	
Lam	p color	Cool white	Cool white	Cool white	Cool white	
Intensity of illu	ımination(at 1m)	120-1,200Lux	150-1,560Lux	200-650Lux	460-2,300Lux	
Mounting		Mount bracket	Mount bracket	Mount bracket	Mount bracket	
Protection rating		IP67	IP67	IP67/ IP69K	IP67/ IP69K	
Certificates		CE, UL, KC	CE, UL, KC	CE, UL, KC	CE, UL, KC	
Customization		M12 connector equipped	M12 connector equipped	M12 connector equipped	M12 connector equipped	



LED Work Lights for Industrial Purpose Specification List





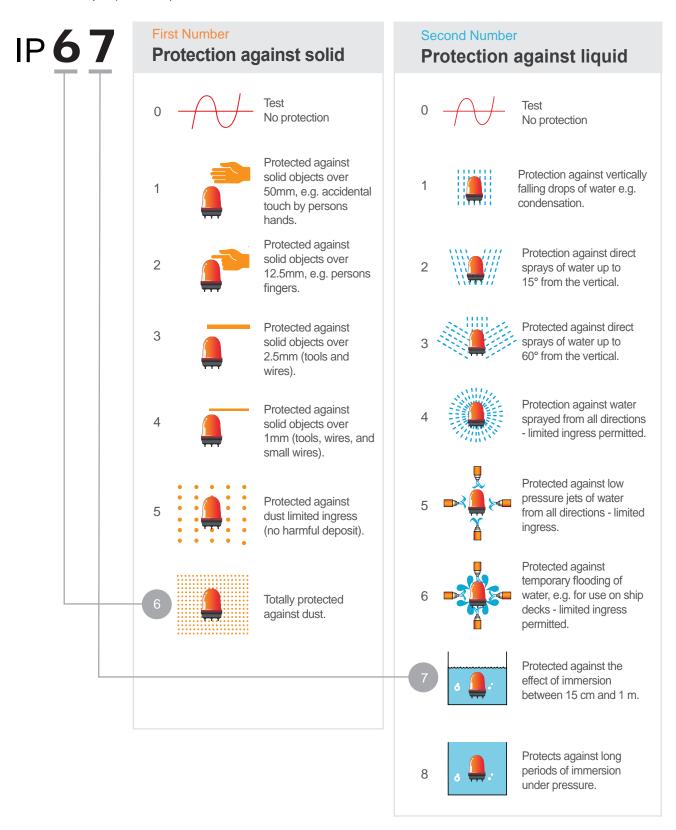
	Via-				· Vancoura de la companya de la comp		
Model Number(series)		QEL-200/ 300/ 400/ 500	QELT-200/ 300/ 400/ 500	QELS-200/ 300/ 400/ 500	QELTS-200/ 300/ 400/ 500		
Vo	ltage	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V		
Consumption of	of electrical power	3.5-8.5 W	3.5-8.5W	3.5-8.5W	3.5-8.5W		
	Length	220-520	249-549	249-549	278-578		
Dimension (mm)	Width	34.6	34.6	34.6	34.6		
(11111)	Height	30.7	30.7	33.1	33.1		
Ma	aterial	Lens : PC, Side cover : ABS					
Len	s color	Translucent	Translucent	Translucent	Translucent		
Lam	p color	Cool white	Cool white	Cool white	Cool white		
Intensity of illu	ımination(at 1m)	80-200Lux	80-200Lux	80-200Lux	80-200Lux		
Mounting		Mount bracket	Mount bracket	Mount bracket	Mount bracket		
Protection rating		Non Water-proof	Non Water-proof	Non Water-proof	Non Water-proof		
Certificates		CE, KC	CE, KC	CE, KC	CE, KC		
Custo	mization						

Qlight

Waterproof and Dustproof Protection Structure

Comparing waterproof dustproof protection structure

■ IP rating: Known as "Ingress Protection rating" indicated in two-digit code showing the amount of protection against solid and the liquid.(IEC60529)



^{*} The configurations below are mainly used. Other configurations tend to be illogical.

^{*} IP00/IP11, IP12/IP21, IP22, IP23/IP31, IP32, IP33, IP34/IP41, IP42, IP43, IP44/IP54, IP55, IP56/IP65, IP66, IP67



NEMA Protection Ratings

■ NEMA SIZE: National Electrical Manufacturers Associations standard for enclosure protection rating, NEMA1~6 and 11~13 type is applicable in Non-Hazardous Locations, NEMA 7~10 is applicable in Hazardous Locations.

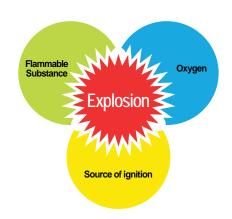
Туре	Usage place	Environment	Protection Grade
1	Indoor Use	Non-explosion proof	Provides protection against falling dirt
2	Indoor Use	Non-explosion proof	Provides protection against falling dirt and dripping/light splashing water
3	Outdoor Use	Non-explosion proof	Provides protection against falling dirt, windblown dust, water (rain, sleet, snow); and prevents damage by the external formation of ice on the enclosure
3R	Outdoor Use	Non-explosion proof	Provides protection against falling dirt, water (rain, sleet, snow); and undamaged by the external formation of ice on the enclosure
3S	Outdoor Use	Non-explosion proof	Provides protection against falling dirt, water (rain, sleet, snow); and external mechanism operable when ice laden
4	Indoor/	Non-explosion proof	Provides protection against falling dirt, windblown dust, water (rain, sleet, snow splashing water, and hose directed water); undamaged by the external formation of ice on the enclosure
4X	Outdoor Use	Non-explosion proof	Same as Type4 with additional level of protection against corrosion
5	Indoor Use	Non-explosion proof	Provide protection against falling dirt and settling airborne dust, lint, fibers, and flyings, dripping/light splashing water
6	Indoor/	Non-explosion proof	Provides protection against falling dirt; and hose directed water and the entry of water during occasional temporary submersion at a limited depth
6P	Outdoor Use Non-explosion proof		Provides protection against falling dirt; and hose directed water and the entry of water during prolonged submersion at a limited depth
7	Outdoor Use	Explosion proof	Enclosures constructed for indoor use in hazardous (classified) locations for gas
8	Indoor/ Outdoor Use	Explosion proof	Enclosures constructed for either indoor or outdoor use in hazardous (classified) locations for explosion proof construction by oil enclosure
9	Indoor Use	Explosion proof	Enclosures constructed for indoor use in hazardous (classified) locations for dust
10	Indoor/ Outdoor Use	Explosion proof	Enclosures constructed to meet the requirements of the Mine Safety and Health Administration, 30 CFR, Part 18.
11	Indoor Use	Non-explosion proof	Provides protection against the corrosive effects of liquids and gases
12	Indoor Use	Non-explosion proof	Provides protection to personnel against access to hazardous parts, against falling dirt and circulating dust, lint, fibers, and dripping/light splashing water
12K	Indoor Use	Non-explosion proof	Same as Type 12 for enclosures constructed with knockouts
13	Indoor Use	Non-explosion proof	Provide protection against falling dirt and circulating dust, lint, fibers, flyings, dripping/light splashing water, spraying, splashing, and seepage of oil and non-corrosive coolants.

■ NEMA Ratings and IP Ratings Equivalency Chart: The chart below is for comparison between two enclosure ratings. It is only for reference and these two rating standards are not exactly converted.

NEMA ENCLOSURE TYPE	IP ENCLOSURE TYPE
1	IP23
2	IP30
3	IP64
4	IP66
4X	IP66
6	IP67
12	IP55 IP65
13	IP65

Explosion Proof Technical Data





Technical Data for Explosion Proof Products

• 3 elements of explosion

Flammable substance, ignition source, and oxygen are the 3 elements of an explosion. The explosion will occur when the three components are met. If one the three components does not exist the explosion will not occur.

What is explosion proof?

Preventing the combination of the 3 elements of explosion.

• Explosion proof product

Typically, products will include electrical parts that can be an explosion ignition source. However, explosion proof products are designed to prevent spark/ ignition.

Explosion Proof Structure Classifications

The data indicated below are some of the classification specifications by structure type of the explosion proof products. Furthermore, there are mold explosion proof structure, charging explosion proof structure and special explosion proof structure. The explosion proof classification structure is separated depending on product application areas.

Flame Proof



Ex d Zone1, 2

All electrical circuits are enclosed in a house strong enough to contain any explosion or fire that may take place on the inside.

Purged/ Pressurized



Ex p Zone1, 2

Type of protection in which the protective inert gas inside the enclosure is maintained at a higher pressure than that of the surrounding atmosphere.

Increased Safety



Ex e Zone1, 2

Electrical circuits incorporates special measures to reduce the probability of excessive temperatures and the occurrence of arcs and sparks in normal service.

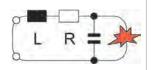
Non-Sparking



Ex n Zone2

Method of protection for electrical equipment designed so that it will not ignite the surrounding explosive atmosphere in normal operation and under certain fault conditions specified in the standard.

Intrinsic Safety



Ex i Zone 0, 1, 2

The electrical energy available in circuits and equipment, is limited to a level to low to ignite the most easily ignitable mixtures in a hazardous area.

Dust Explosion Proof



Ex td Zone 21, 22

The apparatus is enclosed in a manner that will exclude ignitable amounts of dusts and will not permit arcs, sparks or heat generated or liberated inside the enclosures to cause ignition of exterior dust accumulations on the enclosure or of atmospheric dust suspensions in the vicinity of the enclosure.



Technical Data of Explosion Proof

Classification by Group

Explosion proof equipment is classified as below depending on the risk characteristic of explosive gas.

EXPLOSION GROUP FLAMMABLE	FLAMMABLE SUBSTANCE	FLAMMABILITY
I	Methane	
ΠA	Acetone, Petrol, Methanol, Propane, Toluene	Low
ШВ	Ethylene, City gas	High
ШС	Hydrogen, Acetylene, Carbon sulphide	Very High

Temperature Class Definition

The temperature class is defined as below depending on the surface temperature of the explosion proof equipment.

The range of maximum surface temperature per temperature class					
The range of maximum surface temperature	temperature class				
300°C - 450°C	T1				
200°C - 300°C	T2				
135°C - 200°C	T3				
100°C - 135°C	T4				
85°C - 100°C	T5				
Below 85°C	T6				

The Ignition Class and Temperature of The Explosive Gas

- 1) If the temperature class gets higher from T1 to T6, the ignition temperature gets lower.
- 2) If the explosion group changes from I to IIC, the explosion gets bigger.

	T1(G1)	T2(G2)	T3(G3)	T4(G4)	T5(G5)	T6(G6)
Ι	Methane					
ΠA	Acetone, Ethane Ethyl ethanoate Ammonia Benzol(Pure) Ethanoic acid Carbon oxide Methane, Methanol Propane, Toluene Acetic acid Ethyl acetate Ethyl chloride Carbon Monoxide Methylene Chloride Naphthalene, Phenol	Ethanol i-Amyl acetate n-Butane n-Butyl alcohol Ethyl alcohol Cyclohexane Acetic anhydride	Benzene Diesel fuel Aircraft fuel Heating oils n-Hexane Petroleum spirit - Gen Jet propulsion fuel Heating fuel DIN 51603	Acetaldehyde Ethyl ether		
∏В	Town gas Coal gas (lighting gas)	Ethylene Ethylene oxide	Ethylene Ethylene oxide	Ethyl ether		
ПС	Hydrogen	Ethine(Acetylene)				Carbon disulphide



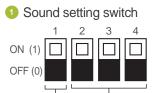
Multifunctional Type Feature

■ 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 playback function for warning message that needs to be repeated often.

■ Function setting





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

	ON = 1 / OFF = 0					
	Ch1	Ch2	Ch3	Ch4	Ch5	
ON OFF						

Left channel switch allows user to select from 31 sound tones. Channel switch will be substituted for external wiring in case of LC type products.

	Sound	Ch	Sound Tone		Sound	Ch	Sound Tone
		Ch1	Fire.A-ANG(560Hz~1.5kHz)			Ch1	Beep Intermittent
	E Morning	Ch2	Emergency WA-U(Yelp)(600Hz~1.5kHz)			Ch2	Door Chime
WS	5 Warning Sounds	Ch3	Ambulance PI-PO(Hi-low)(450Hz~900Hz)	WA	5 Alarms	Ch3	Phone Ring
	Sourius	Ch4	Machinery Fault(820Hz)			Ch4	PI.PI.PI Short
		Ch5	High Expansion(1kHz)			Ch5	Tripping Beat
	5 0 1	Ch1	Fire.A-ANG(560Hz~1.5kHz)		5 0 1	Ch1	Rel rel (730Hz~920Hz)
	5 Special	Ch2	Abandon Alarm(820Hz)		5 Special	Ch2	Slow Ambulance PI-PO(820Hz~1.05kHz)
WP	Warning Sounds	Ch3	Machinery Fault(820Hz)	WC	Warning Sounds	Ch3	Wye yong Wye yong(770Hz~1.2kHz)
	(1 st Group)	Ch4	Ch4 High Expansion(1kHz)		(2 nd Group)	Ch4	Phone ring 2(740Hz~910Hz)
	(1 Gloup)	Ch5	7 Short PI. / 1 Long(1kHz)		(2 Group)	Ch5	Fire.A-ANG(770Hz~1.11kHz)
		Ch1	Sweet Home			Ch1	Oit Oit(500Hz~1.11kHz)
		Ch2	For Elise		5 Special	Ch2	Pi o Pi o(940Hz~2.19kHz)
WM	WM 5 Melodies	Ch3	Cuckoo's Waltz	WN	Warning Sounds	Ch3	Slow Di o Di o(680Hz~840Hz)
		Ch4	Piano Sonata			Ch4	Li long Li ling(420Hz~470Hz)
		Ch5	Turkish March		(3 rd Group)	Ch5	911 Siren(500Hz~1kHz)

Binary input mode's sound tone combinations

			1 / OF							
011	Ch1	Ch2			Ch5	Left channel switch allows the user to select from 30 available sound tones.				
ON						Channel switch will be substituted for	r external wiring in case of LC type products.			
OFF										
No.					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?



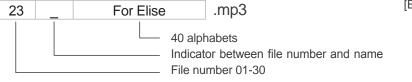
SD memory card is a compact flash memory card for storing various data such as MP3s or document files, Models with MP3 features can save voice messages or alarm messages in the SDcard.

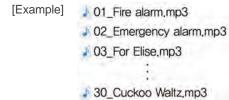
* SDcard sold separately.

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

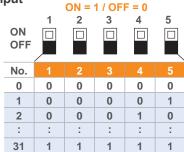




Binary input and Bit input method

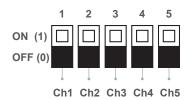
Special alarm type models and multifunctional type models are divided into Binary input method or Bit input method depending on the source selection method.

■ Binary input



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.

Olight

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>



- Sound setting switch
- MP3 playable SDcard
- Play mode setting switch
- Sound select switch
- Volume

■ How to set-up a MP3 type product

Select built-in or external sound

Select Built-in or external sound

by using #1 switch in the sound

Please refer to our total catalogue

page24 for special alarm type model,

and page26 for multifunctional type

setting switch.

model

Select Built-in sound

Play mode setting

Select Bit/binary input by using # 3 the play mode setting switch.

Please refer to our total catalogue page24 for special alarm type model, and page26 for multifunctional type model

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 page17 for multifunctional type model.

Select sound



Select and play one of the 5 sounds using #40 sound select switch or line-out.

Please refer to our total catalogue page25 for special alarm type model, and page27 for multifunctional type model

Select external(MP3) sound

Binary input mode

Bit input mode

Bit input mode

Select sound



Select and play one of the 30/31 sounds using #49 sound select switch or line-out.

Please refer to our total catalogue page25 for special alarm type model, and page27 for multifunctional type model.

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.

Please refer to our total catalogue page24 for special alarm type model, and page26 for multifunctional type model

Select sound



Select and play one of the 5 sounds using #4 sound select switch or line-out.

Please refer to our total catalogue page25 for special alarm type model, and page27 for multifunctional type model.

Binary input mode

Select sound



Select and play one of the 30/31 sounds using #4 sound select switch or line-out.

Please refer to our total catalogue page25 for special alarm type model, and page27 for multifunctional type model.



Wireless Networks System

- Ideal for factory automation environments. This system aims to increase productivity by periodically monitoring the operational ratio and the failure mode status of each equipment.
- · Design for remote monitoring and control of equipment via wireless network and smartphone platform
- Control up to 768 devices using ZIGBEE wireless communication
- 1 wireless network system can contain up to 24 groups, each group consists of 32 devices.
- Using multiple GATEWAY ROUTERs with this system allows for redundancy and communication failure prevention in the event of a specific GATEWAY issue.
- · Networks Topology: Mesh topology
- Communication Standard : ZigBee(IEEE802.15.4)
- Frequency: 2405Mhz-2480Mhz
- Transmission Distance: 100 Meters between devices (Line of sight)

Wireless Network System Components

PC Software	Mobile Application	GATEWAY	USB DONGLE	Warning Light
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- PC Software: PC Softwareè The computer program is used for monitoring and controlling the wireless network system. The program also enables smartphones to access the wireless network system by creating a web server.
- Mobile Application: The mobile application enables users to access, monitor, and control the wireless network system.
- GATEWAY: The gateway is connected to a computer via a USB (RS-232) or Ethernet connection. The Gateway is enable to transmit information from the wireless devices to the computer and is also enable to transmit control signals of the computer to the wireless devices.
- USB DONGLE: By using the USB interface, the USB dongle is enable to transmit information from the wireless devices to the computer and also enable to transmit control signals of the computer to the wireless devices.
- Warning Light: The wireless warning light executes commands received from the PC and function as a REPEATER to transmit the control signal to other devices.

1. Connection Methods depending on different System Type

1) USB Connection

CASE1. Communication via USB Dongle

Connect USB dongle to USB port. This connection method is suitable for systems that connects small number of devices to an individual wireless network.



CASE2. Communication via Gateway

Connect USB cable to USB PORT. This connection method is suitable for systems that connects small number of devices to an individual wireless network.



2) Ethernet Connection

CASE1. Communication via Ethernet

Ethernet cable to Ethernet port. This connection method is suitable for systems that connects small number of devices to an individual wireless network.



CASE2. Communication via a Gateway

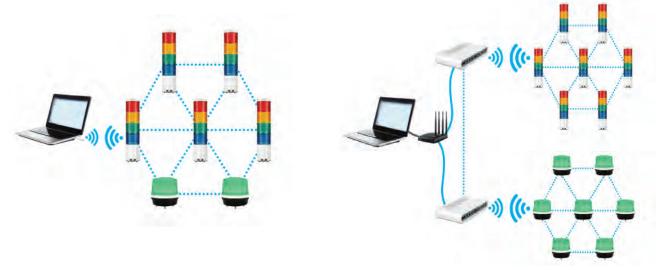
This connection method is suitable for a factory automation environment that connects groups of equipment to a wireless network connection Can control each equipment individually via smart phone





Wireless Networks System Configuration

2. System Configuration

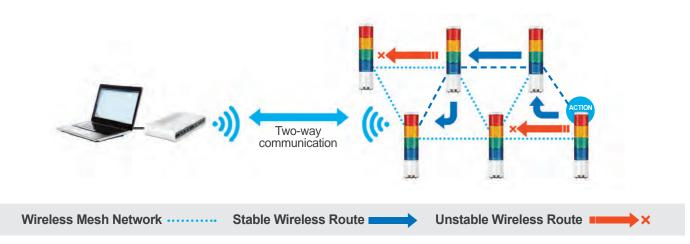


<Communication via USB Dongle>

<Communication via GATEWAY>

Wireless Mesh Network

The Wireless Mesh Network automatically selects the optimal path of communication

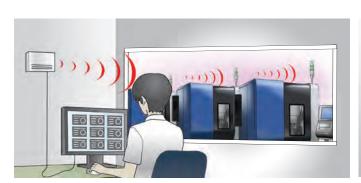


Device Monitoring & Control

- -The operation status of each equipment in the automation system is monitored and stored in a CSV file on a daily basis to analyze the operation rate of the equipment.
- -The control room can control the entire network of equipment or a specific equipment while also delivering a notice to the operator.

Alarm Notification Service

-The operator is able to check the status of system failure or device malfunction anytime and anywhere by a mobile phone.





Qlight

Tower Light Mounting Brackets

Tower Light Mounting Brackets

User can select from a variety of mounting brackets options depending on their application conditions.

(Units: mm) Product Image Technical Diagram for Applicable Models Features 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 M18×1.5 THREAD ST45B, ST45BF, ST45L, ST45LF, ST56B, ST56BF, ST56L, ST56LF, ST56EL, ST56ELF, STC45L, STC56EL, STC56L, QT50LF, QT50LF, QT50LS, QT50LR, 18mm SCREW & NUT STG40L, STG40LF, STG50LF, ST45L-ETN, ST56EL-ETN, ST56L-(Standard Type) ETN, ST45L-USB, ST56EL-USB, ST56L-USB M24×1.5 ST80B, ST80BF, ST80L, ST80LF, ST80EL, ST80ELF, STC80L, STC80LF, STC80EL, STC80ELF, QT70L, QT70LF, QT70LS, QT70LR, ST80EL-ETN, 24mm SCREW & NUT ST80L-ETN, ST80EL-USB, ST80L-USB (Standard Type) L-type bracket is attached to the pole mount tower light for installation to the side of the equipment. Material: Steel 2-Ø8.5 HOLES ST45B, ST45BF, ST45LF, ST56BF, ST56BF, ST56LF, ST56EL, ST56ELF, ST56WL, STC45L, STC56EL, STC56L, QT50L, QT50LF, QT50LS, QT50LR, STG40L, STG40LF, STG50L, STG50LF, ST45L-ETN, ST56EL-ETN, I B18 ST56L-ETN, ST45L-USB, ST56EL-USB, ST56L-USB 34 2-Ø8.5 HOLES ST80B ST80BE ST80L ST80LE ST80EL ST80ELE STC80L STC80LE

LB24

STC80EL, STC80ELF, QT70L, QT70LF, QT70LS, QT70LR, ST80EL-ETN,

ST80L-ETN, ST80EL-USB, ST80L-USB

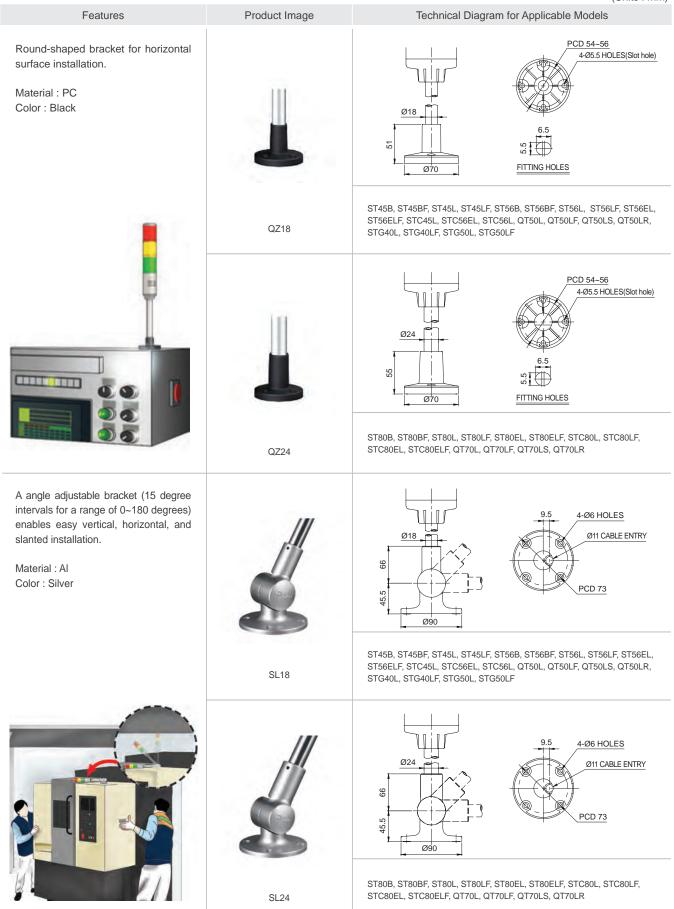




(Units: mm) Product Image Technical Diagram for Applicable Models Features High-end L-type bracket is attached to the pole mount tower light for side of equipment installations. Wires can 4-Ø5 HOLES be threaded through the side of the bracket or come out at the bottom. 46 The threads inside the bottom of the bracket can enable use of cable con-1/2 PF nectors. 52 CABLE ENTRY 66 Material: PC Color: Ivory ST45B, ST45BF, ST45L, ST45LF, ST56B, ST56BF, ST56L, ST56LF, ST56EL, ST56ELF, STC45L, STC56EL, STC56L, QT50L, QT50LF, QT50LS, QT50LR, LW18 STG40L, STG40LF, STG50L, STG50LF 4-Ø5 HOLES 52 CABLE ENTRY 69.5 ST80B, ST80BF, ST80L, ST80LF, ST80EL, ST80ELF, STC80L, STC80LF, STC80EL, STC80ELF, QT70L, QT70LF, QT70LS, QT70LR LW24 Round-shaped bracket for horizontal surface installation. 4-Ø5 HOLES PCD 56 Material: Al Color: Silver 50 ST45B, ST45BF, ST45L, ST45LF, ST56B, ST56BF, ST56L, ST56LF, ST56EL, ST56ELF, STC45, STC56EL, STC56L, QT50LF, QT50LF, QT50LS, QT50LR, SZ18 STG50L, STG40LF, STG50L, STG50LF 4-Ø5 HOLES PCD 73 Ø90 ST80B, ST80BF, ST80L, ST80LF, ST80ELF, STC80L, STC80LF, STC80EL, STC80ELF, QT70L, QT70LF, QT70LS, QT70LR SZ24



(Units: mm)





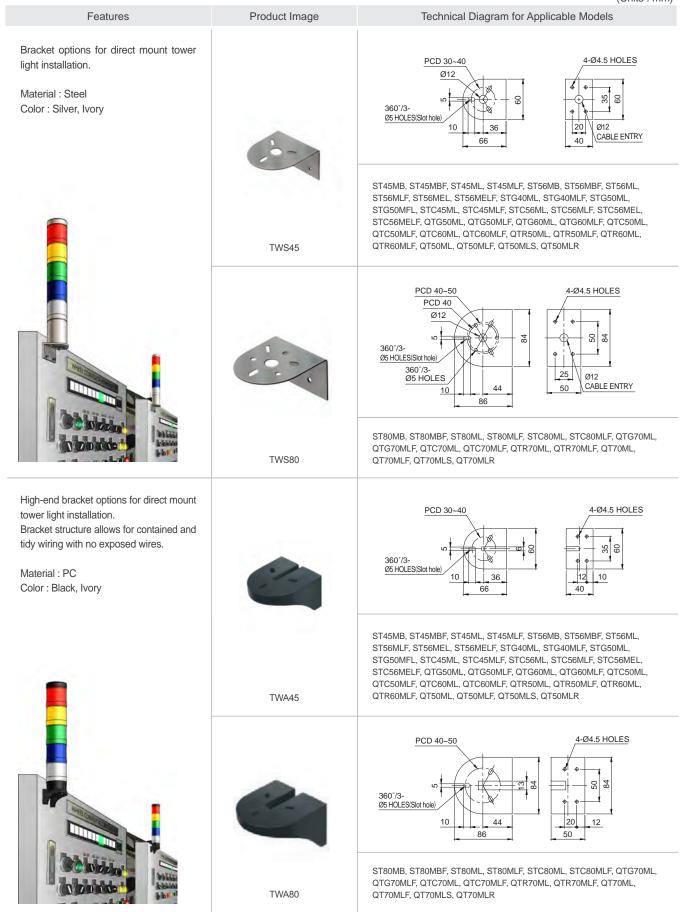
(Units: mm) Features Product Image Technical Diagram for Applicable Models A angle adjustable bracket (5 degree Ø18 CABLE ENTRY intervals for a range of 0~180 degrees) enables easy vertical, horizontal, and slanted installation. 4-Ø5.5 HOLES(Slot hole) 67 Material: PC Color: Black 51.5 ST45B, ST45BF, ST45L, ST45LF, ST56B, ST56BF, ST56L, ST56LF, ST56EL, ST56ELF, STC45, STC56EL, STC56L, QT50L, QT50LF, QT50LS, QT50LR, QL18 STG40L, STG40LF, STG50L, STG50LF PCD54~56 Ø18 CABLE ENTRY 024 4-Ø5.5 HOLES(Slot hole) 29 FITTING HOLES Ø70 ST80B, ST80BF, ST80L, ST80LF, ST80ELF, STC80L, STC80LF, STC80EL, STC80ELF, QT70L, QT70LF, QT70LS, QT70LR QL24 QLA bracket is angle-adjustable with the adjustment button located on the side. It enables 3 angle adjustments at 0, 45, 90 4-Ø5.5 HOLES degrees. 57 Material : PC Color: Black 9 Ø19 CABLE ENTRY Angle adjustment button Ø90 ST45B, ST45BF, ST45L, ST45LF, ST56B, ST56BF, ST56L, ST56LF, ST56EL, ST56ELF, STC45, STC56EL, STC56L, QT50L, QT50LF, QT50LS, QT50LR, ${\tt STG40L,\,STG40LF,\,STG50L,\,STG50LF,\,STG40L,\,STG40LF,\,STG50L,}$ **QLA18** STG50LF 4-Ø5.5 HOLES PCD 73 22 Φ. 9 Ø19 CABLE ENTRY Angle adjustment Ø90 ST80B, ST80BF, ST80L, ST80LF, ST80EL, ST80ELF, STC80L, STC80LF,

QLA24

STC80EL, STC80ELF, QT70L, QT70LF, QT70LS, QT70LR

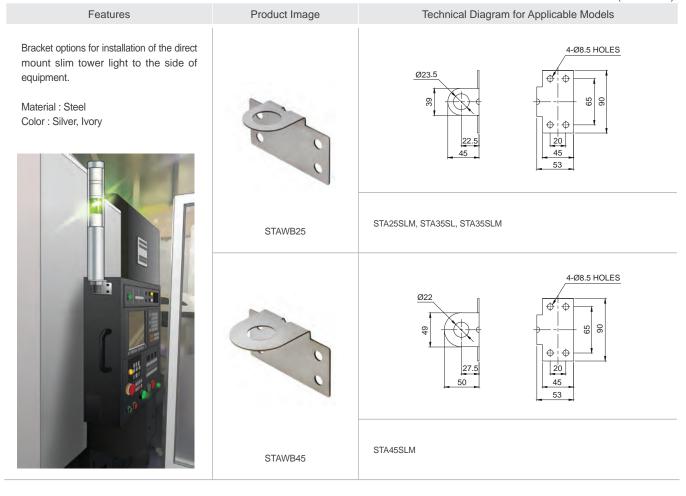


(Units: mm)





(Units: mm)



Warning/ Signal Light Mounting Brackets



Bracket instructions for warning/ signal lights

User can select from a variety of bracket options depending on their application conditions.

(Units: mm)

Features

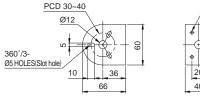
Product Image

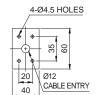
Technical Diagram for Applicable Models

Bracket options for direct mount warning/ signal light installation.

Material: Steel Color: Silver, Ivory





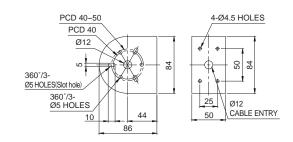


TWS45

S50B, S50L, S60R, S60LR, S60L, MFL60







TWS80

S80R, S80RLR, S80U, S80LR, S80L, S80S, S80SOL, MFL80, SMCL80, QMCL80

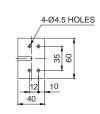
Bracket options for direct mount warning/ signal light installation.

Bracket structure allows for contained and tidy wiring with no exposed wires.

Material : PC Color: Black, Ivory



PCD 30~40 Ø5 HOLES(Slot hole 36



TWA45

S50B, S50L, S60R, S60LR, S60L, MFL60





4-Ø4.5 HOLES PCD 40~50 20 360°/3-Ø5 HOLES(Slot hole

TWA80

S80R, S80RLR, S80U, S80LR, S80L, S80S, S80SOL, MFL80, SMCL80, QMCL80



Warning/ Signal Light Mounting Brackets

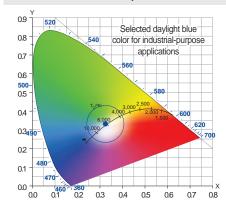
(Units : mm)

		(Onits : mini)
Features	Product Image	Technical Diagram for Applicable Models
Bracket options for direct mount warning/ signal light installation. Material: Steel Color: Ivory		PCD 85 6-Ø5.5 HOLES PCD 60-70 PCD 50
	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		PCD 85 PCD 60-70 PCD 50
	SWM125	S100R, S100E, S100RLR, S100UR, S100URLR, S100U, S100UA, S100LR, S100L, S100S, S125R, S125E, S125RL, S100D, S125D, STDL, STNDL, STND100, STND125



Technical Information on LED Work Lights

CIE 1931 Color Space Chart



LED Colors are represented by the CIE 1931 RGB color space and CIE 1931 XYZ color space created by the International Commission on Illustration (CIE in 1931).

Color Space Chart is based on the brightness of the color. Green occupies the largest space since it has the largest effect on determining the brightness of colors, while blue color that shows the least effect occupies the smallest area. The mixing ratio of the brightness of the color is 3: 6: 1 (R: G: B), where the green portion occupies the largest space.

White color that is commonly used for work lights is composed of the color green, red, and blue. White color also varies due to the ratio of these three colors. The variation color ratios is referred as the color temperature.

Unit: K(Kelvin) Color Temperature Warm Cold 8000 Unit: K 4000 5000 7000 10000 3000 5500 6000 Standard Dir Standard Day White LED Light Three wavelength Xenon White Light Bulb Halogen Lamp Hazy Sky Clear Tengsten Halogen Lamp Halogen Lamp Lamps

The color temperature of a light source is the temperature of an ideal black-housing radiator that radiates light of comparable hue to that light source. The Temperature is conventionally stated in units of absolute temperature, known as Kelvin (K).

The black housing radiates red spectrum when it starts to heat up, and will radiate blue light when the temperature gets even higher.

Strobe/ Flash Light

- Before Sunset: 2,200K (Candlelight, incandescent lamp)
- 40minutes after sunset: 3,000K(Warm white fluorescent lamp, high pressure natrium lamp)
- 2 hours after sunset: 4,000K (White halogen fluorescent lamp)
- Sunlight at noon: 5,800K (Daylight fluorescent lamp)
- Cloudy day: 7,000K (Daylight blue, fluorescent mercury lamp)

■ LED Color Wavelength

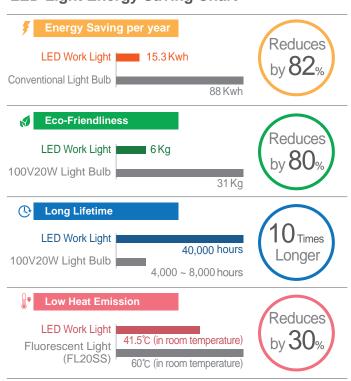
Streetlamp

No.	Color	Wavelength(mm)
1	Red	618-632
2	Amber	585-595
3	Green	518-530
4	Blue	453-465

■ LED Color Temperature

No.	Color	Color Temperature(K)
1	incandescent	2,500-3,500
2	warmwhite	3,500-4,500
3	daylight	4,500-5,500
4	cooldaylight	5,500-7,000

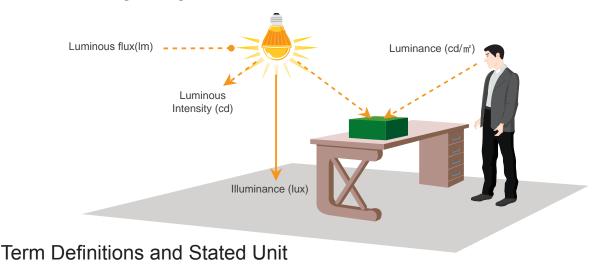
LED Light Energy Saving Chart





Technical Information on LED Work Lights

Understanding of Light Terms



Illuminance Unit: lux

Illuminance is the total Luminous flux incident on a surface per unit area which is conventionally stated as a unit of lux. Specifically, 1 lux equals the amount of light that falls on a one-square-meter surface that is one meter away from a single candle with light speed of 1lm.

Luminous Intensity Unit: cd

Luminous intensity is a measure of the wavelength-weighted power emitted by a light source in a particular direction per unit solid angle based on the luminosity function(a standardized model of the sensitivity of the human eye). The standard unit of luminous intensity is the candela.

Luminance Unit: cd/m²

Luminance is a measure of the luminous intensity per unit area of light travelling in a given direction. It describes the amount of light that passes through, emitted or reflected from a particular area, and falls within a given solid angle. The standard unit for luminance is cd(luminance intensity per square meter (cd/m2).

Luminous flux Unit: Im

Luminous flux is the measure of the perceived power of light. Standard unit of Luminous flux is the lumen (Im). Usually Luminous flux may be understood as the power of light.

Color Rendering Unit: Ra

A color rendering index (CRI) is a quantitative measure of the ability of a light source to reveal the colors of various objects faithfully in comparison with an ideal or natural light source. Numerically, the highest possible CIE Ra value is 100, which would only be given to a source identical to standardized daylight or a body of black color, and its value drops to negative values for some light sources. The higher the CRI value is, the better the color rendering ability is. Light sources with a CRI of 85 to 90 are considered good at color rendering.

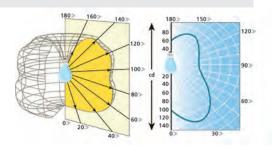




High Color Rendering(Ra80) Low Color Rendering(Ra70)

Light Distribution Curve

Light distribution curve, provides information on how light is emitted from a lamp or light fixture. The diagram represents a section cut through the fixture and shows the intensity of light emitted in each direction. The portion of the graph above the horizontal 90°-270° line indicates light that shines above the fixture (indirect), while the portion of the graph below represents light shining down (direct). The straight lines radiating from the center point identify the angle of the light emitted while the circles represent the intensity.



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.

(ChineseStandard-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



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 products have acquired China Compulsory Certificate, a compulsory safety mark for products imported, sold or used in the Chinese market



ICAO International Civil Aviation Organization

Qlight aviation obstruction light series are in compliance with ICAO/FAA standards.



E-mark Economic Commission of Europe (ECE)

Qlight warning lights for vehicles have acquired E-marking, a compulsory mark for vehicle safety system and component issued by EU committee. FC directive.



RoHS Restriction of Hazardous Substances Directive

Qlight complies with the Restriction of Hazardous Substances Directive by limiting its use of hazardous materials.



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.

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