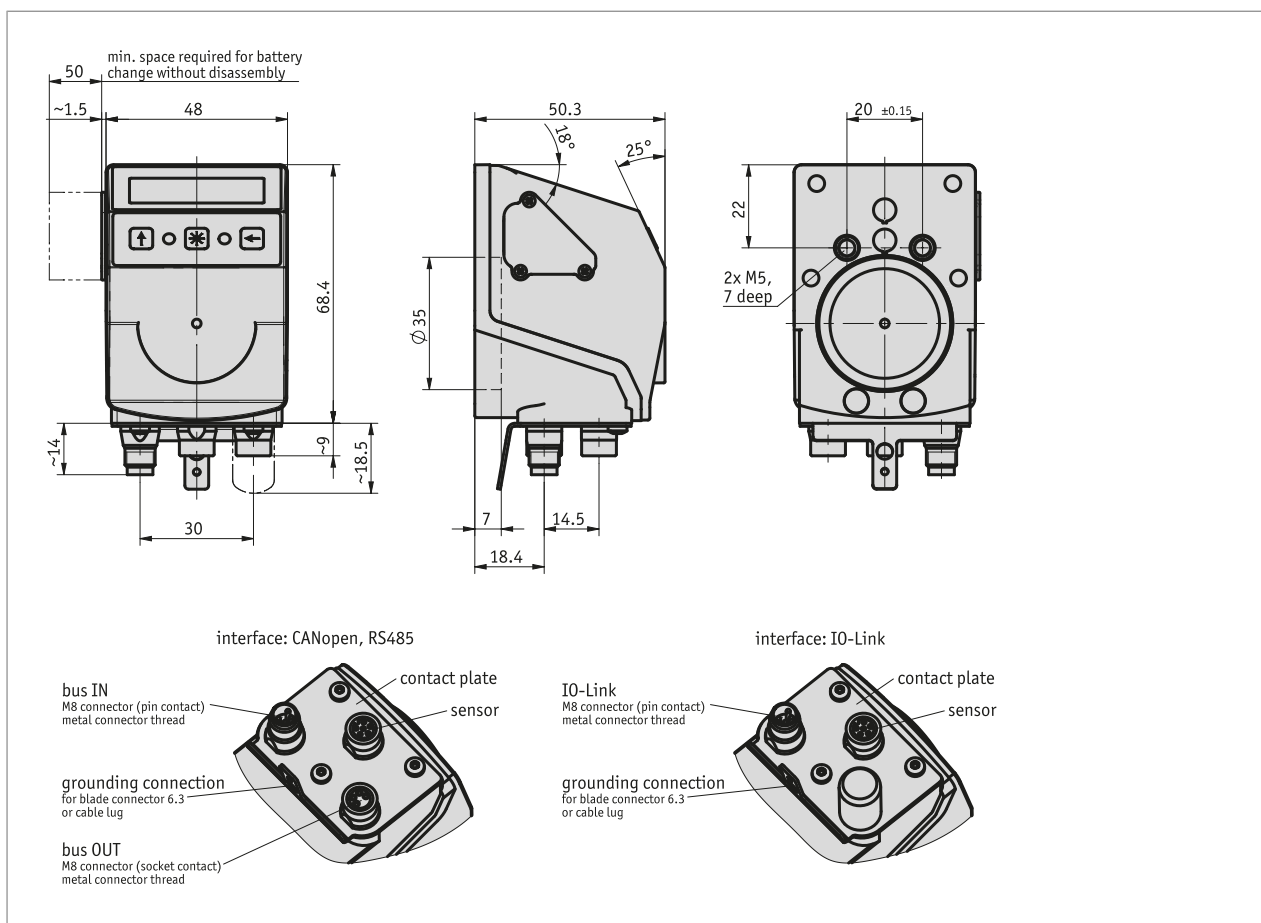


Electronic position indicator AP10S

With bus interface, for direct linear length measurement

Profile

- Electronic position indicator with plug connection for magnetic sensor
- Optimally readable backlit display
- Two-line LCD for target and actual values
- Reset, incremental measurement, offset via keyboard
- Integrated RS485 interface, CAN bus or IO-Link as an option
- Display accuracy up to 0.01 mm
- Absolute function via internal backup
- User guidance via bicolor status LEDs
- IP53 protection class, IP65 as an option
- Industry 4.0 ready



Mechanical data

Feature	Technical data	Additional information
Housing	reinforced plastic	plug thread, nickel-plated brass/cover, metal ground connection
Color	black, RAL 9005	
Weight	~0.11 kg	

Electrical data

Feature	Technical data	Additional information
Operating voltage	24 V DC $\pm 20\%$	
Current consumption	~ 30 mA	when operated with LEDs additionally ~ 3 mA per LED
Power input	~ 0.72 VA	max. power supply of the power supply unit used: 100 VA. The power supply used corresponds to SELV/Limited Energy (IEC 61010-1) or SELV/LPS (IEC 60950-1) or Class 2 (UL 1310).
Battery service life	~ 8 Year(s)	
Parameter storage	10^5 cycles	also applies to calibration operations
Display/display range	6-digit LCD 14-segment, ~ 8 mm high	decimal points, 2 rows, special characters (backlit LED red/white)
Special character	cw arrow, ccw arrow, incremental measurement, battery	
Status display	2x two-color LED (red/green)	position status, configurable
Keys	incremental measurement function, parameterizing, resetting	
Interface	RS485, CANopen, IO-Link	no galvanic isolation
Type of connection	2x M8 plug connectors (A-coded)	4-pin, 1x socket, 1x pin (RS485, CANopen)
	1x M8-plug connector (A-coded)	4-pin, 1x pin (IO-Link)
	1x M8-plug connector (A-coded)	6-pole, 1x socket (sensor)
	grounding via flat male tab 6.3 mm or terminal lug	

System data

Feature	Technical data	Additional information
Scanning	external sensor	
Resolution	720 Increments/revolution 0.01 mm	displayed value/rotation freely configurable (use with GS04) use with MS500H
System accuracy	± 35 μ m	use with MS500H
Measuring range	± 20971 m < 233016 rotation(s)	use with MS500H use with GS04
Approval	UL	UL 61010-1, File No. E503367

Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	0 ... 60 °C	
Storage temperature	-20 ... 80 °C	
Relative humidity		condensation inadmissible
EMC	EN 61326-1	Industry immunity requirement, class B emission limit, shielded line required
Safety regulations	DIN EN 61010-1 (VDE 0411-1), UL 61010-1	Limited power supply according to DIN EN 61010-1 Section 9.4. Protection class II Surge category II Pollution level 2
Protection category	IP53 IP65	EN 60529, with mating connectors (degree of protection not tested by UL) EN 60529, with mating connectors (degree of protection not tested by UL)
Shock resistance	500 m/s ² , 11 ms	EN 60068-2-27
Vibration resistance	< 100 m/s ² , 5 ... 150 Hz	EN 60068-2-6

pin assignment

■ Interfaces

RS485	CAN-Bus	IO-Link	PIN
TxRx-/DUB	CANL	L+ (+UB)	1
TxRx+/DUA	CANH	nc	2
+UB	+UB	L- (GND)	3
GND	GND	C/Q	4

Industry 4.0

In most cases, data exchange with the position indicators is limited to the exchange of process data. In addition to the process data, intelligent displays provide additional information that can be evaluated for condition monitoring up to predictive maintenance:

Process data	Smart Value	Smart Function
Actual position	Battery voltage	Battery change planning
"Target position"	Presence, distance, alignment sensor	Counting error

Order

■ Ordering information

One or more system components are required:

Magnetic sensor MS500H
Hollow shaft sensor GS04

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■ Ordering table

Feature	Ordering data	Spezifikation	Additional information
interface/protocol	A	CAN	CANopen
		S3/09	RS485/SIKONETZ5
		IOL	IO-Link
Protection category	B	IP53	IP53
		IP65	IP65
Sight window	C	SF	front foil
		K	plastic

■ Order key

AP10S - - - EX - - S

A
B
C



Scope of delivery:

AP10S, Documentation on CD, Installation Instructions



Accessories you can find:

Easy touch control ETC5000
Cable extension KV04S1
Battery unit ZB1027
Overview Mating connector
Mating connector, 4-pole, socket
Mating connector, 4-pole, pin
Bus terminating connector, 4-pole, pin

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