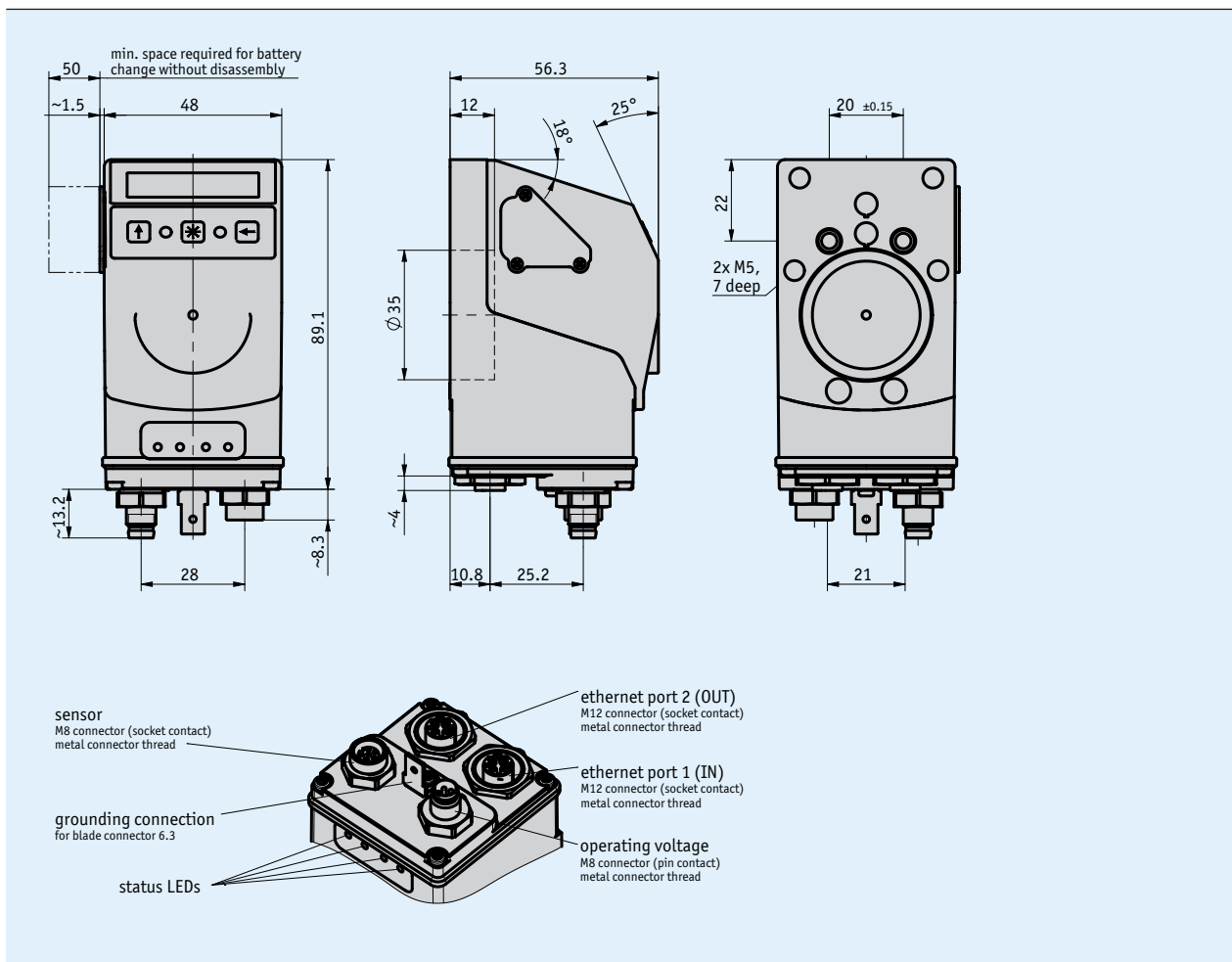


### Profile

- Electronic position indicator with plug connection for magnetic sensor
- Integrated Industrial-Ethernet-Fieldbus
- Backlit two-row LCD
- Display of target and actual value displays with integrated alignment
- Display accuracy up to 0.01 mm
- Absolute function via internal backupup
- Robust sensor technology unit thanks to magnetic scanning
- User guidance through status LEDs
- IP53 type of protection, IP65 as an option



### Mechanical data

Feature	Technical data	Additional information
Housing	reinforced plastic	metal cover / plug thread / ground connection
Color	black	

### Electrical data

Feature	Technical data	Additional information
Operating voltage	24 V DC $\pm 20\%$	reverse polarity protected
Current consumption	$\sim 100$ mA	
Battery service life	$\sim 8$ year(s)	
Display/display range	6-digit LCD 14-segment, $\sim 8$ mm high -199999 ... 999999	decimal points, 2 rows, special characters (backlit LED red/white) expanded display area to -999999
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	Ethernet/IP PROFINET EtherCAT POWERLINK	
Type of connection	1x M8-plug connector (A-coded) 1x M8-plug connector (A-coded) 1x M12-plug connector (D-coded) grounding via flat plug 6.3 mm	4-pole, 1x pin 6-pole, 1x socket (sensor) 4-pole, 2x socket

### System data

Feature	Technical data	Additional information
Scanning	external sensor	
Resolution	0.01 mm 720 increments/revolution	use with MS500H displayed value/revolution freely configurable (use with GS04)
System accuracy	$\pm 35$ $\mu\text{m}$	use with MS500H
Measuring range	$\pm 10485$ m $\leq 233016$ revolution(s)	use with MS500H use with GS04

### 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	industrial immunity requirements, class B emission limit
Protection category	IP53 IP65	EN 60529, with mating connector only EN 60529, with mating connector only
Shock resistance	500 m/s <sup>2</sup> , 11 ms	EN 60068-2-27
Vibration resistance	100 m/s <sup>2</sup> , 5 ... 150 Hz	EN 60068-2-6

### Pin assignment

#### ■ Ethernet

Signal	PIN
Tx+	1
Rx+	2
Tx-	3
Rx-	4

#### ■ Operating voltage

Signal	PIN
reserved	1
reserved	2
+UB	3
GND	4

### Order

#### Ordering information

One or more system components are required:

Magnetic sensor MS500H PL  
Hollow shaft sensor GS04

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#### Ordering table

Feature	Ordering data	Specification	Additional information
Interface/protocol	ECT	EtherCAT	
	EIP	EtherNet/IP	
	EPL	POWERLINK	
	EPN	PROFINET	
Protection category	IP53	IP53	
	IP65	IP65	
Viewing window	SF	front foil	
	K	plastic	impact protection

#### Order key

AP20S - A - B - C - S

**Scope of delivery:** AP20S, Mounting instructions

#### Accessories:

Battery unit ZB1027

Cable extension KV04S1

Mating Connector Overview

Mating connector, operating voltage, 4-pole, socket

Mating connector, port 1 + port 2, 4-pole, pin

Mating connector, port 1 + port 2, 4-pole, angular pin

Intermediate plate

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Order key 87600

Order key 89908