Digital position indicator AP04S
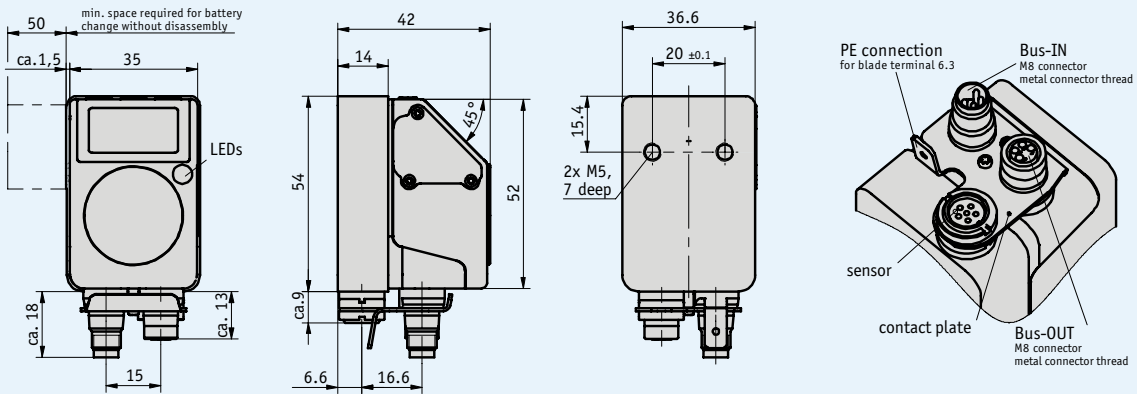## With bus interface, for positioning by means of an external sensor

Profile

- Electronic position indicator with plug connection for magnetic sensor
- Requires magnetic sensor MS500H and magnetic band MB500
- Easily readable, two-line LCD for target and actual values
- Integrated RS485 interface, CAN bus as an option
- Display accuracy up to 0.01 mm
- Absolute function via internal backup
- User guidance via bicolor LED

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Mechanical data

Feature	Technical data	Additional information
Operating temperature range	0 ... 60 °C	
Storage temperature range	–20 ... +80 °C	
Protection category	IP54	optional IP65
Housing	plastic reinforced	metal connector thread
Mounting plate	steel browned	
Housing color	black, RAL 9005	

Electrical data

Feature	Technical data	Additional information
Operating voltage	24 V DC ±20 %	
Current consumption	approx. 20 mA	
Battery life	approx. 5 years	
Type of connection	2x M8 connector	4-pin, 1x bush, 1x connector, additionally screen connection via flat-cable plug 6.3 mm
Sensor connection	M8 connector	
Bus connection	CAN bus or RS485	no galvanic isolation
Display	LCD display	7-segment + decimal points; 2 lines of 5 digits each, special characters
Special characters	left arrow, right arrow, increm. measurem., replace battery	
Display size	approx. 7 mm digit height	
Signal indicator	bicolor LED (red/green)	
Keys	incremental measurement function, parameterization , reset	
Scanning	external sensor	
System accuracy	±35 µm	for use with MS500H
Measuring length	±655 m	for use with MS500H
Resolution	720 increments/revolution	for use with GS04
Encoded number of revolutions	≤7281	for use with GS04

Pin assignment

■ Interfaces

RS485	CAN-Bus	PIN
TxRx-/DÜB	CANL	1
TxRx+/DÜA	CANH	2
+24 V DC	+24 V DC	3
GND	GND	4

Order

■ Order Note

The following system components are required (optionally):

Magnetic sensor MS500H, Magnetic band MB500 — *Page 42, 44*
Hollow shaft sensor GS04 — *www.siko.de*

■ Order table

Feature	Order text	Specification	Additional information
Interface/protocol	S3/00 A	RS485/SIKONETZ3	
	S3/09	RS485/SIKONETZ5	
	CAN	CANopen	
Protection category	IP54 B		
	IP65		

■ Order code

AP04S – [ ] A – [S] – [ ] B

Scope of delivery: AP04S, User information

Accessories:
Mating connectors — *Page 106*
Cable extension — *Page 107*
Battery unit — *Page 108*

Additional information:
General information and areas of application — *Page 26 cont.*

Subject to technical alterations 03/2013

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