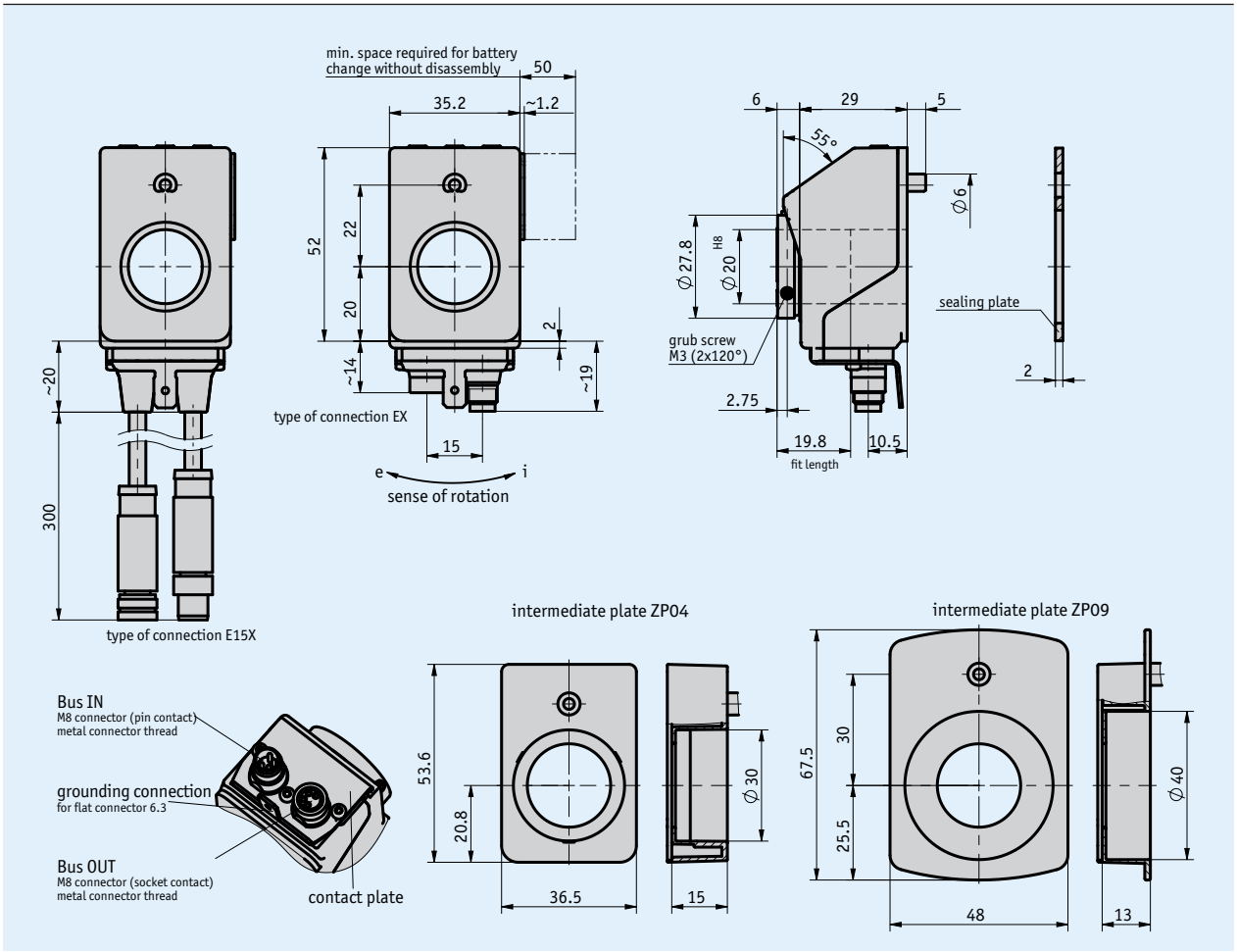
Profile

- Electronic position indicator with bus interface
- Backlit two-row LCD
- Display of target and actual value displays with integrated alignment
- User guidance through status LEDs
- Hollow shaft with Ø 20 mm and clamping ring made of stainless steel
- Enhanced shock resistance owing to protective display glass
- Integrated RS485 interface, CAN bus as an option
- Robust sensor technology unit thanks to magnetic scanning
- Mechanically compatible with the AP04 and DA04 position indicators
- IP53 type of protection, IP65 as an option





Mechanical data

Feature	Technical data	Additional information
Shaft	plastic	
Housing	reinforced plastic	plug thread, nickel-plated brass/cover, metal ground connection
Color	black, RAL 9005	
Clamping ring	stainless steel	
Speed	≤500 rpm	
Cable sheath	PUR	EX15 type of connection
Cable bending radius	≥30 mm	permanently laid
Weight	~0.07 kg	

Electrical data

Feature	Technical data	Additional information
Operating voltage	24 V DC ±20 %	reverse polarity protected
Current consumption	~30 mA	
Battery service life	~8 year(s)	
Parameter storage	10^5 cycles	also applies to calibration operations
Display/display range	5-digit LCD 7-segment, ~6 mm height	decimal points, 2 rows, special characters (LED backlit red/white)
Special character	arrow clockwise, arrow conter-clockwise, incremental dimension, battery	
Status display	2x two-color LED (red/green)	position status, configurable
Keys	incremental measurement function, parameterizing, resetting	
Bus connection	RS485; CANopen	no galvanic isolation
Type of connection	2x M8-plug connectors (A-coded)	4-pole, 1x socket, 1x pin
	grounding via flat connector 6.3 mm	

System data

Feature	Technical data	Additional information
Scanning	magnetic	
Resolution	720 increments/revolution	displayed value/revolution freely configurable
Measuring range	≤932067 revolution(s)	coded

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	EN 60529, in the fitted condition, with mating connector mounted
	IP65	EN 60529, in the fitted condition, with mating connector mounted
Shock resistance	≤500 m/s^2, 11 ms	EN 60068-2-27, half-sine, 3 axes (+/-), each 3 pulses
Vibration resistance	≤100 m/s^2, 10 … 2000 Hz	EN 60068-2-6, 3 axes, each 10 cycles

Pin assignment

Interfaces

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

Order

Ordering table

Feature	Ordering data		Specification	Additional information
Interface/protocol	CAN	A	CANopen	
	S3/09		RS485/SIKONETZ5	
Hollow shaft/diameter	20	B	ø20 mm	
	...		RH12, RH14, RH15, RH16	reducing bushes
Intermediate plate	OZP	C	without	
	ZP04			
	ZP09		adaptation DA09S	
Protection category	IP53	D	IP53	
	IP65		IP65	
Type of connection	EX	E	industrial connector	without cable
	E15X		cable outlet	
Software	S	F	standard software	
	SW04		compatible to AP04-CAN	
	SW05		compatible to AP04-SN5	
	SW06		compatible to AP04-SN3/4	

Order key

AP05 - [ ] - [ ] - A - [ ] - [ ] - [ ] - [ ]
A B C D E F

Scope of delivery: *AP05, Mounting instructions*

Accessories:

Reduction sleeve RH09	*www.siko-global.com*
Pneumatic clamping plate KP09P	*www.siko-global.com*
Clamping plate KPE04	*www.siko-global.com*
Battery unit ZB1027	*www.siko-global.com*
Easy Touch Control ETC5000	*www.siko-global.com*
Cable extension KV04S1	*www.siko-global.com*
Mating Connector Overview	*www.siko-global.com*
Mating connector, 4-pole, socket	*Order key 84209*
Mating connector, 4-pole, pin	*Order key 84210*
Bus terminating connector, 4-pole, pin	*Order key BAS-0005*

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