

CANopen **IO-Link**
SIKONET5
RS485

-



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	rustproof stainless steel	
Speed	≤500 min ⁻¹	
Cable sheath	PUR	E15X, E12X connection type
Cable bending radius	≥30 mm	permanently laid
Weight	~0.07 kg	

Electrical data

■ CANopen interface

Feature	Technical data	Additional information
Operating voltage	24 V DC ±20 %	reverse polarity protection
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 (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	chain dimension function, parameterization, calibration	
Interface	CANopen	no galvanic isolation
Type of connection	2x M8 plug connectors (A-coded) grounding via flat connector 6.3 mm	4-pole, 1x socket, 1x pin

■ RS485 interface

Feature	Technical data	Additional information
Operating voltage	24 V DC ±20 %	reverse polarity protection
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 (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	chain dimension function, parameterization, calibration	
Interface	RS485	no galvanic isolation
Type of connection	2x M8 plug connectors (A-coded) grounding via flat connector 6.3 mm	4-pole, 1x socket, 1x pin

■ IO-Link interface

Feature	Technical data	Additional information
Operating voltage	18 ... 30 V DC	reverse polarity protection
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 (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	chain dimension function, parameterization, calibration	
Interface	IO-Link version 1.1	according to IEC 61131-9 V1.1.2, incl. Package 2015 & Corrigendum
Type of connection	1x M8-plug connector (A-coded) 1x M12-plug connector (A-coded) grounding via flat connector 6.3 mm	4-pole, 1x pin (EX connection type) 4-pole, 1x pin (E12X connection type)

System data

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

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	immunity requirement of industrial applications, emission limit class B
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	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 shocks
Vibration resistance	≤100 m/s ² , 10 ... 2000 Hz	EN 60068-2-6, 3 axes, each 10 cycles

pin assignment

■ Interfaces

IO-Link	RS485	CAN	PIN
L+ (+UB)	TxRx-/DÜB	CANL	1
nc	TxRx+/DÜA	CANH	2
L- (GND)	+24 V DC	+24 V DC	3
C/Q	GND	GND	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"	Speed	Overload

Order

■ Ordering table

Feature	Ordering data	Spezifikation	Additional information
Interface/protocol	A	IOL	IO-Link
		S3/09	RS485/SIKONETZ5
		CAN	CANopen
hollow shaft/diameter	B	20	ø20 mm
		...	RH12, RH14, RH15, RH16
			others on request
Intermediate plate	C	OZP	without
		ZP04	
		ZP09	adaptation DA09S
Protection category	D	IP53	IP53
		IP65	IP65
Type of connection	E	EX	industrial connector
		E12X	cable outlet
		E15X	cable outlet
Software	F	S	standard software
		SW04	compatible to AP04-CAN
		SW05	compatible to AP04-SN5
		SW06	compatible to AP04-SN3/4

■ Order key



Scope of delivery:

AP05, Installation Instructions



Accessories you can find:

Pneumatic clamping plate KP09P

Clamping plate KPE04

Easy touch control ETC5000

Cable extension KV04S1

Battery unit ZB1027

Adapter sleeve RH09

Overview Mating connector

Mating connector, 4-pole, socket

Mating connector, 4-pole, pin

Bus terminating connector, 4-pole, pin

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