

Overview

- Most reliable object detection through barrier principle
- Flexible parameterization and additional diagnostic data thanks to IO-Link
- High performance in compact housing



Picture similar



Technical data

General data		Communication interface	
Scanning range Sd	0 ... 500 mm	Baud rate	38,4 kBaud (COM 2)
Reflector position Sde	15 ... 500 mm	Cycle time	≥ 8 ms
Adjusting range reflector (operating range)	± 2,5 % Sde	Process data length	48 Bit
Adjusting range reflector (limit range)	± 5 % Sde	Process data structure	Bit 0 = SSC1 (distance) Bit 1 = SSC2 (distance) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 8-15 = scale factor Bit 16-47 = 32 Bit measurement
Version	IO-Link	IO-Link port type	Class A
Repeat accuracy	0.5 mm	Additional data	Distance Excess gain Operating cycles Operating hours Boot cycles Operating voltage Device temperature Histograms
Response time ton/toff min	< 16 ms	Adjustable parameters	Time filters LED status indicators Output logic Output circuit Counter Beam forming Deactivate the sensor element Find Me function
Response time ton/toff standard	< 40 ms		
Temperature drift	< 2 % Sde		
Power-up drift	Compensated after 15 min.		
Sonic frequency	290 kHz		
Adjustment	qTeach, line-Teach, IO-Link		
Alignment aid	Light indicator flashing		
Light indicator	LED yellow		
Power on indication	LED green		
Alignment measuring axis	< 2°		
Electrical data		Mechanical data	
Voltage supply range +Vs	12 ... 30 VDC	Type	Rectangular
Current consumption typ.	35 mA	Housing material	Plastic (ASA, PMMA)
Output circuit	Push-pull	Width / diameter	12.9 mm
Output current	< 100 mA	Height / length	32.2 mm
Voltage drop Vd	< 3 VDC	Depth	23 mm
Residual ripple	< 10 % Vs		
Short circuit protection	Yes		
Reverse polarity protection	Yes		
Communication interface			
Interface	IO-Link V1.1		

The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

Technical data

Mechanical data

Connection types Cable 4 pin, 2 m

Ambient conditions

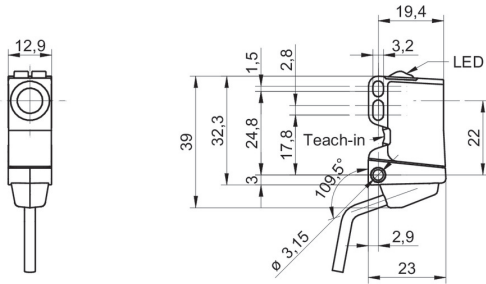
Operating temperature -25 ... +65 °C

Ambient conditions

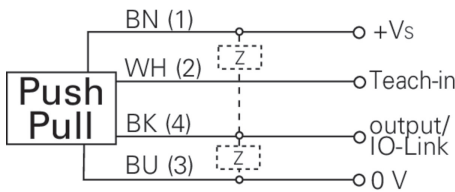
Storage temperature -40 ... +75 °C

Protection class IP 67

Dimension drawing



Connection diagram



Typical sonic cone profile

