Baumer
Passion for Sensors

Ultrasonic retro-reflective sensors

U500.RA0.2-GP1J.72F

Article number: 11200634

Overview

- 0… 1000 mm
- push-pull
- qTeach, line-Teach, IO-Link
- connector M12 5 pin
- -25 … 65 °C
- IP 67

Picture similar

Technical data

General data	
Scanning range Sd	0 … 1000 mm
Reflector position Sde	100 … 1000 mm
Adjusting range reflector (operating range)	± 2,5 % Sde
Adjusting range reflector (limit range)	± 5 % Sde
Version	IO-Link
Repeat accuracy	< 0,5 mm
Temperature drift	< 2 % Sde
Power-up drift	Compensated after 15 min.
Response time ton	< 40 ms
Release time toff	< 40 ms
Sonic frequency	200 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	
Voltage supply range +Vs	12 … 30 VDC
Current consumption typ.	35 mA
Output circuit	Push-pull
Output current	< 100 mA
Voltage drop Vd	< 3,5 VDC
Residual ripple	< 10 % Vs

Electrical data	
Short circuit protection	Yes
Reverse polarity protection	Yes
Communication interface	
Interface	IO-Link V1.1
Baud rate	38,4 kBaud (COM 2)
Cycle time	≥ 12 ms
Process data length	48 Bit
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
IO-Link port type	Class A
Additional data	Distance Excess gain Operating cycles Operating hours Boot cycles Operating voltage Device temperature Histograms

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2021-08-13

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Technical data

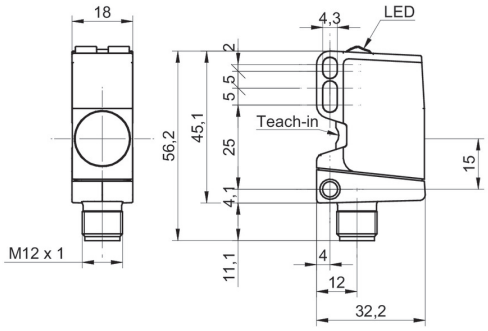
Communication interface	
Adjustable parameters	Time filters LED status indicators Output logic Output circuit Counter Beam forming Deactivate the sensor element Find Me function

Mechanical data	
Type	Rectangular
Housing material	Plastic (ASA, PMMA)

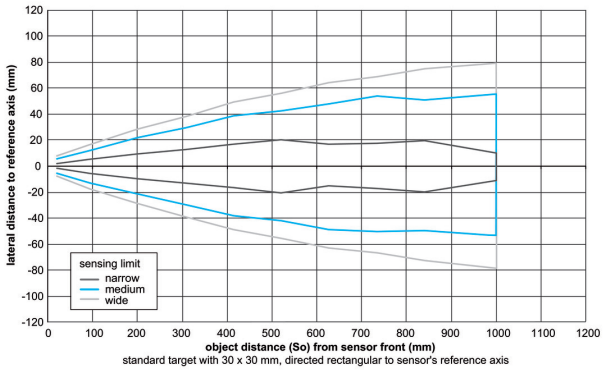
Mechanical data	
Width / diameter	18 mm
Height / length	45 mm
Depth	32 mm
Connection types	Connector M12 5 pin
Coating active face	PEEK

Ambient conditions	
Operating temperature	-25 … +65 °C
Storage temperature	-40 … +75 °C
Protection class	IP 67

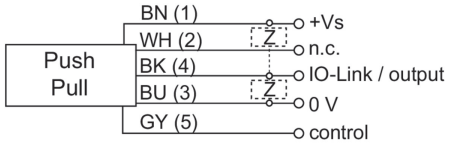
Dimension drawing



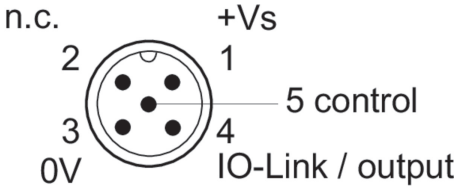
Typical sonic cone profile



Connection diagram



Pin assignment



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