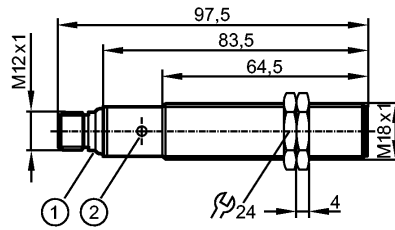




UGT512

UGA02200GOKG/IO-LINK/US

Ultrasonic sensors



- 1: LEDs
- 2: teach button



Product characteristics

Ultrasonic diffuse-reflection sensor

Threaded type

M18 x 1

Quick disconnect

Teach function

Electrical data

Electrical design		DC PNP
Operating voltage [V]		10...30 DC; cULus - Class 2 source required
Current consumption [mA]		55
Protection class		III
Reverse polarity protection		yes
Power-on delay time [s]		< 0.3
Converter frequency [kHz]		200

Inputs

Teach	yes
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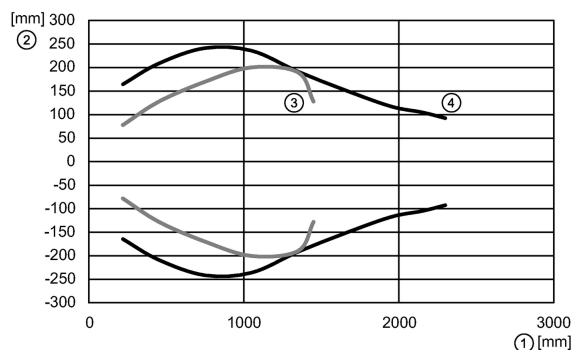
Outputs

Output function	2 x normally open / closed programmable
Current rating [mA]	100
Voltage drop [V]	2.2
Short-circuit protection	yes
Overload protection	yes
Switching frequency [Hz]	3

Monitoring range

Sensing range [mm]	2200
blind zone [mm]	200

Response curve



1: Distance; 2: Sound beam; 3: Target Ø 25 mm; 4: Target 200 x 200 mm

Angle of aperture [°]	8 ± 2
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Max. deviation from the 90° angle sensor / object	[°]	± 4
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Accuracy / deviations

Notes on the accuracy / deviation	The indicated values are reached after a warm-up time of ≥ 20 minutes	
Temperature compensation		yes
Hysteresis	[%]	1
Switch-point drift	[%]	± 2
Resolution	[mm]	< 3
Repeatability	[%]	0.5

Interfaces

IO-Link Device		
Transfer type		COM2 (38.4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9
Profiles	Smart Sensor: Process Data Variable; Device Identification	
SIO mode		yes
Required master port class		A

Environment

Ambient temperature	[°C]	-20...70
Protection		IP 67

Tests / approvals

EMC	EN 61000-4-2 ESD:	4 kV CD / plastics 8 kV AD / metal
	EN 61000-4-3 HF radiated:	3 V/m
	EN 61000-4-4 Burst:	2 kV
	EN 61000-4-6 HF conducted:	3 V
	EN 55011:	class A
MTTF	[Years]	154
Vibration resistance		(10-55) Hz 1 mm amplitude, vibration duration 5 min., 30 min. per axis with resonance or 55 Hz
	EN 60068-2-6 Fc	
Shock resistance	EN 60068-2-27 Ea	yes

Mechanical data

Housing materials	316L stainless steel / 1.4404; polyamide; Epoxid-Glaskeramik	
Weight	[kg]	0.105

Displays / operating elements

Display	Switching status 2 LED yellow Echo LED 1 LED green	
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Electrical connection

Connection	M12 connector	
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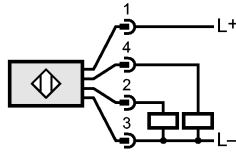
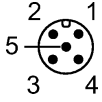
Wiring



UGT512

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Ultrasonic sensors



Pin 4 = IO-Link

Accessories

Accessories (included)	2 fixing nuts, stainless steel; 2 Flat SS washers
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Remarks

Remarks	cULus - Class 2 source required
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Pack quantity	[piece]	1
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