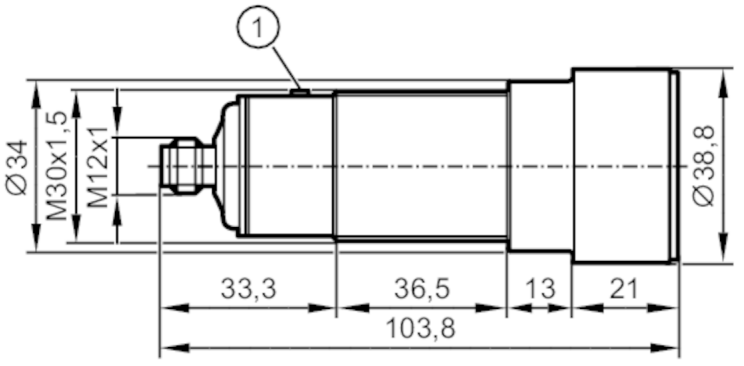
UIT512

Ultrasonic sensor

UIA06000HOKG/US



1 teach button

Product characteristics		
Electrical design		NPN
Output function		normally open / normally closed; (parameterisable)
Sensing range	[mm]	350...6000; (Target: 400 x 400 mm)
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 103.8
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 30
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 0.3
Converter frequency	[kHz]	75
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 2
Outputs		
Total number of outputs		2
Electrical design		NPN
Number of digital outputs		2
Output function		normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC	[V]	2.2
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	1
Short-circuit protection		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	350...6000; (Target: 400 x 400 mm)
Blind zone	[mm]	350

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Angle of aperture cylindrical	[°]	15; (±2)
Max. deviation from the 90° angle sensor/object	[°]	± 4
Accuracy / deviations		
Temperature compensation		yes
Hysteresis	[%]	1
Switch point drift	[%]	-5...5
Repeatability		1 %
Resolution	[mm]	3
Notes on the accuracy / deviation		The indicated values are reached after a warm-up time of min. 20 minutes
Operating conditions		
Ambient temperature	[°C]	-20...70
Storage temperature	[°C]	-30...80
Protection		IP 67
Tests / approvals		
EMC		EN 61000-4-2 ESD: 4 kV CD / 8 kV AD
		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
Vibration resistance		EN 60068-2-6 Fc: (10-55) Hz 1 mm amplitude, oscillation period 5 min., 30 min. per axis at resonance or 55 Hz
Shock resistance		EN 60068-2-27 Ea: 30 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes
MTTF	[years]	143
UL approval		Ta: -20...70 °C
		power supply: Class 2
		File number UL: E174191
Mechanical data		
Weight	[g]	241
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 103.8
Thread designation		M30 x 1.5
Materials		stainless steel (1.4404 / 316L); PA; epoxy glass ceramics
Tightening torque	[Nm]	100
Displays / operating elements		
Display		switching status: 2 x LED, yellow
		echo: 1 x LED, green
Teach function		yes
Accessories		
Items supplied		lock nuts: 2, stainless steel
Remarks		
Remarks		operating voltage "supply class 2" according to cULus
Pack quantity		1 pcs.

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Ultrasonic sensor

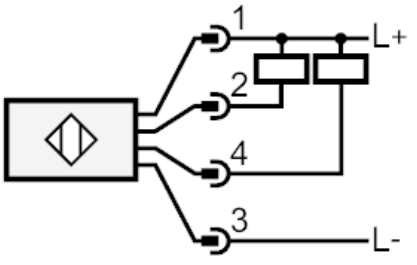
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Electrical connection

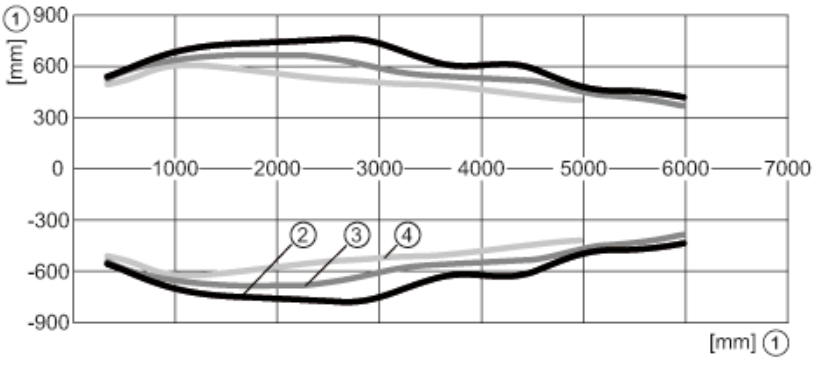
Connector: 1 x M12; coding: A



Connection



Diagrams and graphs



1 distance
2 Standard sound beam
3 Medium sound beam
4 Narrow sound beam