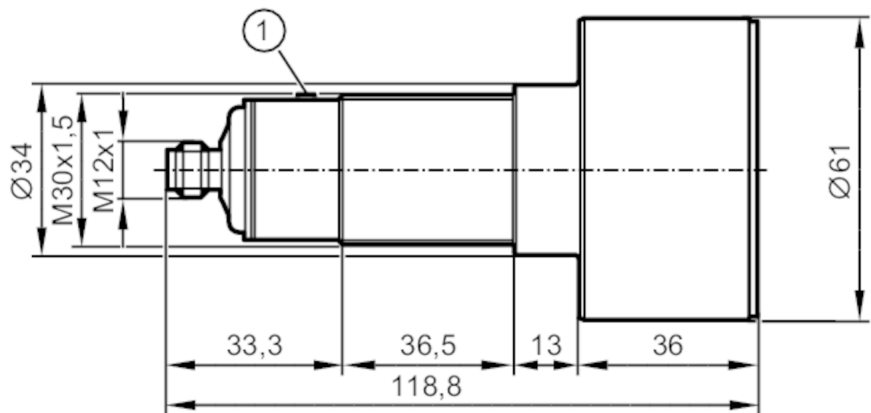


UIT506



Ultrasonic sensor

UIA08000GOKG/IO-Link/US



1 teach button



Product characteristics

Electrical design	PNP
Output function	normally open / closed; (configurable)
Sensing range [mm]	600...8000; (Target: 1000 x 1000 mm)
Communication interface	IO-Link
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 118.8

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]	40

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
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Outputs

Total number of outputs	2
Electrical design	PNP
Number of digital outputs	2
Output function	normally open / closed; (configurable)
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



Ultrasonic sensor

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Monitoring range		
Sensing range	[mm]	600...8000; (Target: 1000 x 1000 mm)
Blind zone	[mm]	600
Angle of aperture cylindrical	[°]	10; (±2)
Max. deviation from the 90° angle sensor/object	[°]	± 4
Accuracy / deviations		
Temperature compensation		yes
Hysteresis	[%]	< 3
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	
Software / programming		
Parameter setting options	hysteresis / window; second switch point; Switch-on and switch-off delay; switch-on operations; Teach function; light-on/dark-on mode	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
Profiles	Smart Sensor: Device Identification; Multi-channel, two setpoint switching sensor, type 0 Generic Profiled Sensor; Process Data Variable; Device Diagnosis; Teach Channel	
SIO mode	yes	
Required master port class	A	
Min. process cycle time	[ms]	3.2
IO-Link process data (cyclical)	Function	bit length
	process value	16
	device status	4
	binary switching information	2
IO-Link functions (acyclical)	application specific tag; operating hours counter	
Supported DeviceIDs	Type of operation	DeviceID
	default	1099
Note	For further information please see the IODD PDF file at "Downloads"	
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

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Vibration resistance	EN 60068-2-6 Fc	(10-55) Hz 1 mm amplitude, vibration duration 5 min., 30 min. per axis with 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]	105	
UL approval	Ta	-20...70 °C
	voltage supply	Class 2
	File number UL	E174191

Mechanical data

Weight [g]	441.5
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 118.8
Thread designation	M30 x 1.5
Material	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
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Remarks

Remarks	cULus - Class 2 source required
Pack quantity	1 pcs.

Electrical connection

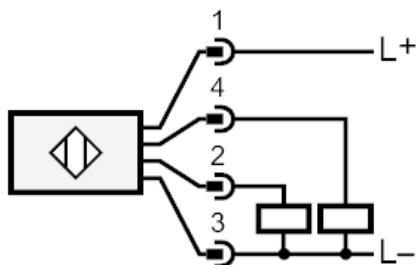
Connector: 1 x M12; coding: A



Ultrasonic sensor

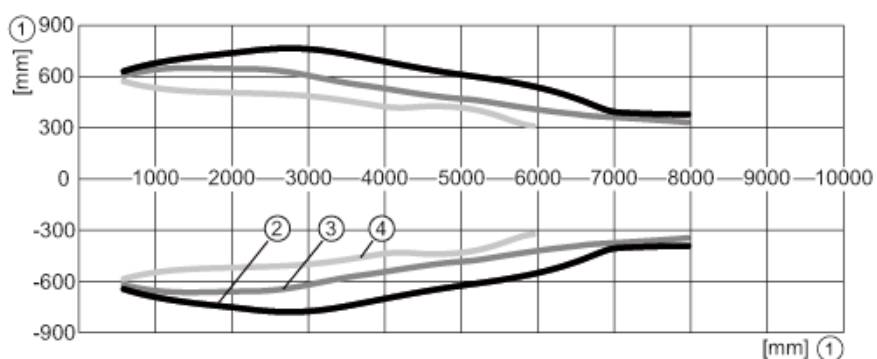
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Connection



4 IO-Link

Diagrams and graphs



- 1 Distance
- 2 Standard sound cone
- 3 Medium sound cone
- 4 Narrow sound cone