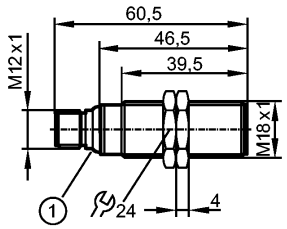
UGT504

UGB00800O1OG/US

Ultrasonic sensors



1: LEDs

Product characteristics		
Ultrasonic diffuse-reflection sensor		
Threaded type		
M18 x 1		
Connector		
Teach function		
Electrical data		
Electrical design		DC analogue
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 35
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	0.1
Converter frequency	[kHz]	230
Inputs		
Teach		yes
Synchronisation		no
Multiplex		no
Outputs		
Output function		1x analogue 4...20 mA
Voltage drop	[V]	2.2
Short-circuit protection		yes
Overload protection		yes
Analogue output		
Max. load	[Ω]	500
Range		
Sensing range	[mm]	800
blind zone	[mm]	60

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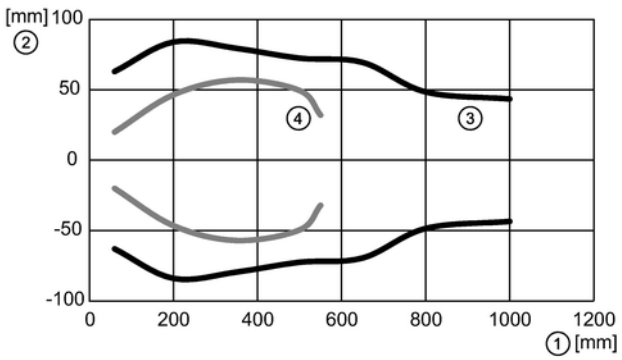
Response curve		 1: Distance; 2: Sound beam; 3: Target 100 x 100 mm; 4: Target Ø 25 mm
Angle of aperture [°]		7 ±2
Max. deviation from the 90° angle sensor / object [°]		± 4
Accuracy / deviations		
Notes on the accuracy / deviation		The indicated values are reached after a warm-up time of ≥ 20 minutes
Temperature compensation		yes
Hysteresis [%]		< 1
Switch-point drift [%]		± 2.5
Linearity error [%]		< 1
Resolution [mm]		3
Repeatability [%]		< 0.7
Environment		
Ambient temperature [°C]		-20...70
Protection		IP 67
Tests / approvals		
EMC	EN 61000-4-2 ESD: EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-6 HF conducted: EN 55011:	4 kV CD / plastics 8 kV AD / metal 3 V/m 2 kV 3 V 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	yes
Mechanical data		
Housing materials		1.4404; polyamide; Epoxid-Glaskeramik
Weight [kg]		0.095
Displays / operating elements		
Display	Switching status Echo LED	1 LED yellow 1 LED green
Electrical connection		
Connection		M12 connector
Wiring		

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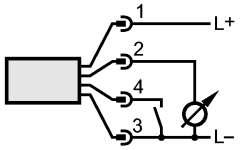

4: Teach

Accessories

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

Remarks

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