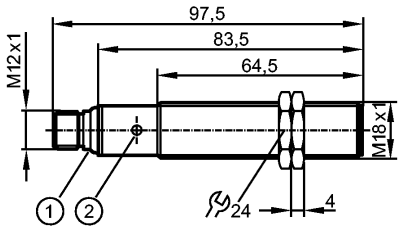
UGT512

UGA02200GOKG/US

Ultrasonic sensors



1: LEDs
2: teach button

Product characteristics

Ultrasonic diffuse-reflection sensor	
Threaded type	
M18 x 1	
Connector	
Teach function	

Electrical data

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

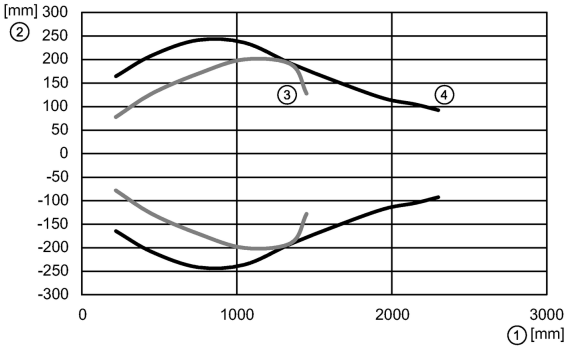
Inputs

Teach		yes

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

Range

Sensing range	[mm]	2200
blind zone	[mm]	200
Response curve		
Angle of aperture	[°]	8 ± 2

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

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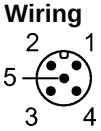
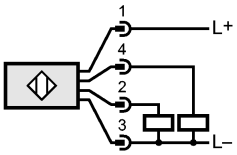
Max. deviation from the 90° angle sensor / object [°]	± 4	
Accuracy / deviations		
Notes on the accuracy / deviation	The indicated values are reached after a warm-up time of ≥ 20 minutes	
Temperature compensation	yes	
Hysteresis [%]	1	
Switch-point drift [%]	± 2	
Resolution [mm]	< 3	
Repeatability [%]	0.5	
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]	0.105	
Displays / operating elements		
Display	Switching status 2 LED yellow Echo LED 1 LED green	
Electrical connection		
Connection	M12 connector	

Wiring





Accessories		
Accessories (included)	2 fixing nuts, stainless steel; 2 washers, stainless steel	
Remarks		
Remarks	cULus - Class 2 source required	
Pack quantity [piece]	1	