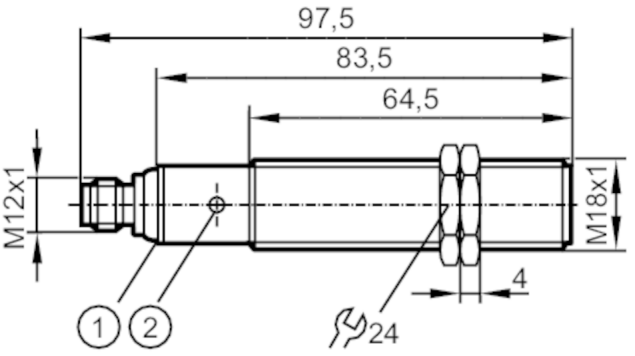
UGT518

Ultrasonic sensor

UGA02200HOKG/US



1 LEDs
2 teach button

Electrical data		
Operating voltage	[V]	10...30 DC; ("supply class 2" to cULus)
Current consumption	[mA]	55
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 0.3
Converter frequency	[kHz]	200
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]	2
Short-circuit protection		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	200...2200
Blind zone	[mm]	200
Angle of aperture cylindrical	[°]	8; (±2)
Detection range hysteresis	[mm]	< 1
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...2

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Operating conditions			
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
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
MTTF	[years]	154	
Mechanical data			
Weight	[g]	101.5	
Housing		threaded type	
Dimensions	[mm]	M18 x 1 / L = 97.5	
Thread designation		M18 x 1	
Materials		stainless steel (1.4404 / 316L); PA; epoxy glass ceramics	
Displays / operating elements			
Display		switching status	2 LED, yellow
		echo	1 LED, green
Accessories			
Accessories (supplied)		lock nuts: 2, stainless steel	
Remarks			
Remarks		operating voltage "supply class 2" according to cULus	
Pack quantity		1 pcs.	

Electrical connection

Connector: 1 x M12

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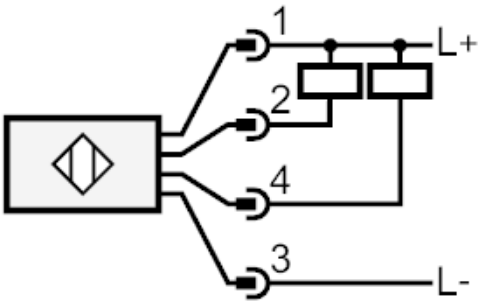
Connection



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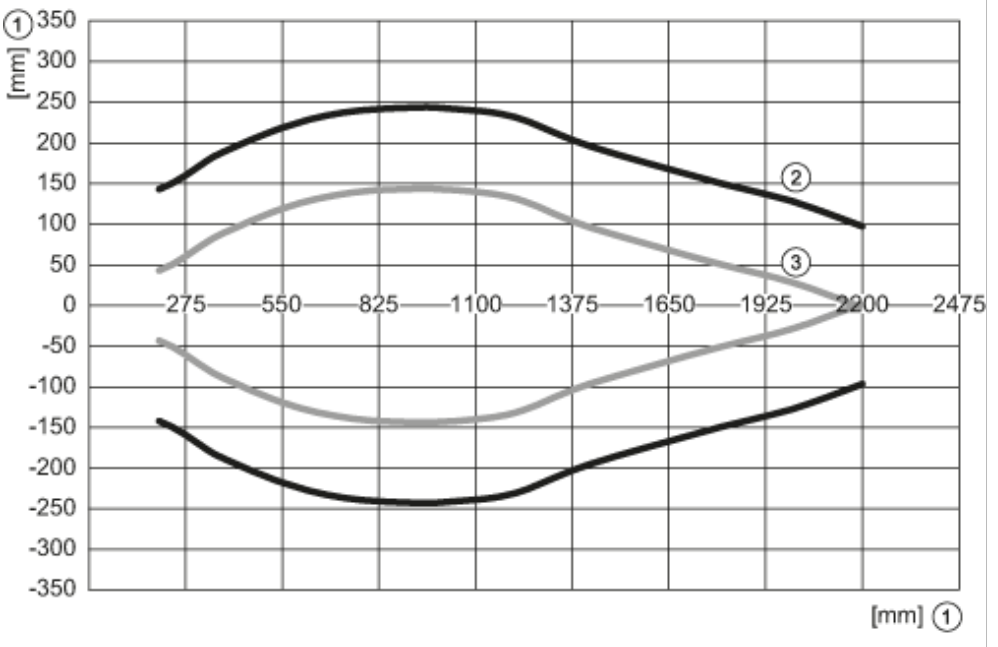
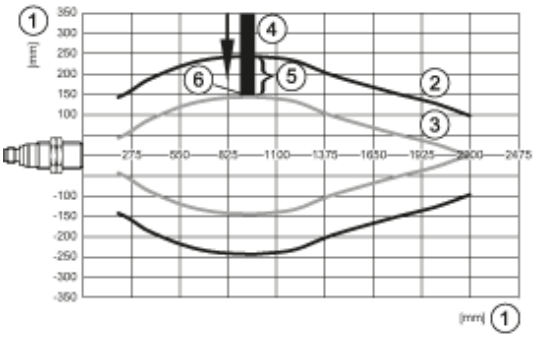
Diagrams and graphs





1: distance

2: Detection zone

3: switch-on/switch-off graph

4: Target 200 x 200 mm

5: 50 % of the target in the detection zone

6: switch point