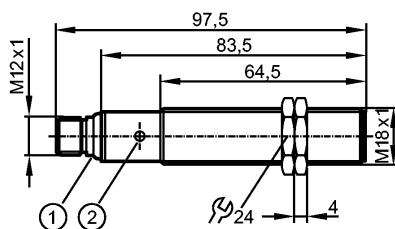




UGR500

UGA01600EOKG/US

Ultrasonic sensors



- 1: LEDs
2: teach button



Product characteristics

Ultrasonic retro-reflective 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]	≤ 0.5
Converter frequency [kHz]	230

Inputs

Teach	yes
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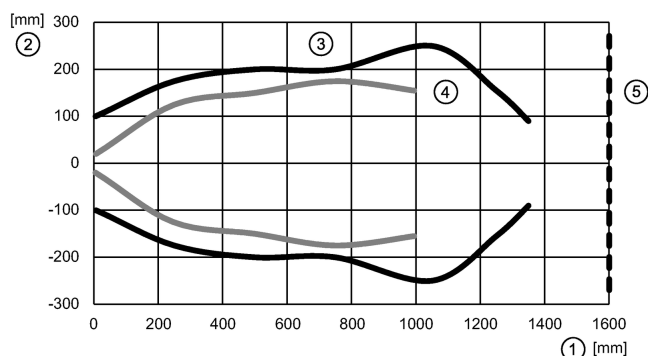
Outputs

Output function	normally open / closed programmable
Current rating [mA]	100
Voltage drop [V]	2.2
Short-circuit protection	yes
Overload protection	yes
Switching frequency [Hz]	2

Range

Sensing range [mm]	1600
Min. distance object / reflector [mm]	250

Response curve



1: Distance; 2: Sound beam; 3: Target 200 x 200 mm; 4: Target Ø 25 mm; 5: Reflector



UGR500

UGA01600EOKG/US

Ultrasonic sensors

Angle of aperture	[°]	± 8
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

Environment

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

Mechanical data

Housing materials	1.4404; polyamide; Epoxid-Glaskeramik	
Weight	[kg]	0.1

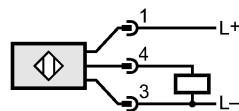
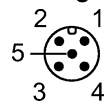
Displays / operating elements

Display	Switching status 2 LED yellow Echo LED 1 LED green
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Electrical connection

Connection	M12 connector
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Wiring



Accessories

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

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