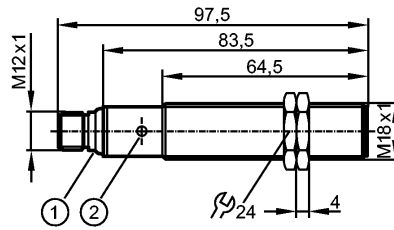




UGT509

UGA01600GOKG/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]	230

Inputs

Teach	yes
-------	-----

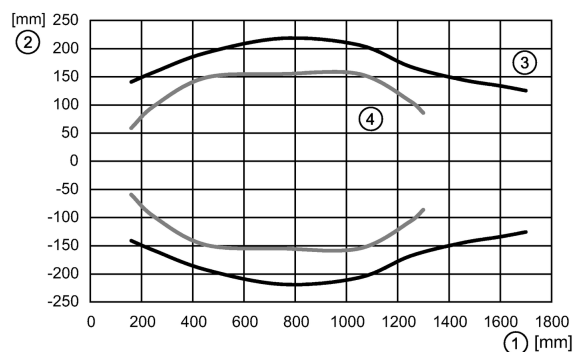
Outputs

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] 1600
blind zone	[mm] 150

Response curve



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

Angle of aperture	[°] 7 ± 2
-------------------	-----------



UGT509

UGA01600GOKG/US

Ultrasonic sensors

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: 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	(10-55) Hz 1 mm amplitude, oscillation period 5 min., 30 min. per axis at resonance or 55 Hz EN 60068-2-6 Fc
Shock resistance	EN 60068-2-27 Ea yes

Mechanical data

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

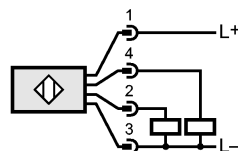
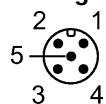
Displays / operating elements

Display	Switching status 2 LED yellow Echo LED 1 LED green
---------	---

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
-----------------------	---