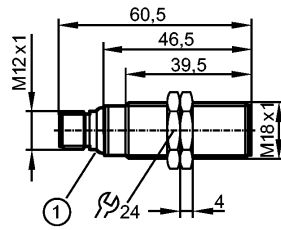




# UGT202

UGC01200EOKG/US

Ultrasonic sensors



1: LEDs



## 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]	< 35
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	0.1
Converter frequency	[kHz]	200

## Inputs

Teach	yes
Synchronisation	no
Multiplex	no

## 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] 5

## Range

Sensing range	[mm] 1200
blind zone	[mm] 80

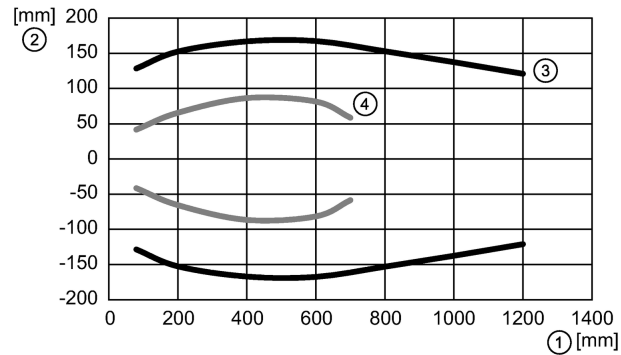


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Response curve



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

Angle of aperture	[°]	8 ± 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:	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	PBT; polyamide; Epoxid-Glaskeramik	
Weight	[kg]	0.095

### Displays / operating elements

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

Connection	M12 connector
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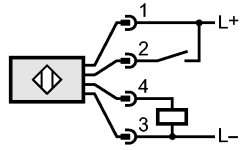
### Wiring



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2: Teach

### Accessories

Accessories (included)	2 fixing nuts (plastic); 2 rubber washers
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### Remarks

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