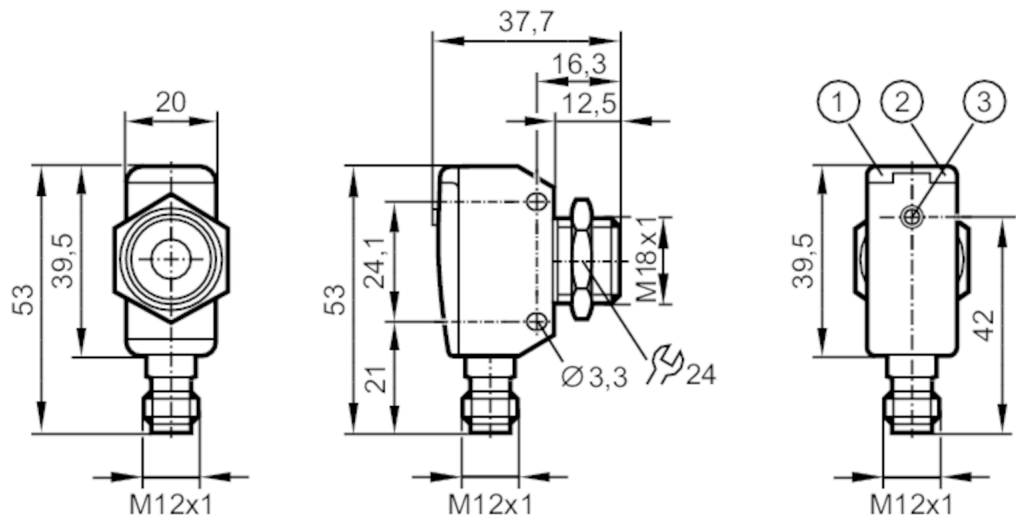


UGT584

Ultrasonic sensor

UGQ01200E1KG/US



- 1 LED echo
- 2 LED Switching status
- 3 teach button



Product characteristics

Electrical design	PNP
Output function	normally open / closed; (configurable)
Sensing range [mm]	80...1200; (Target: 200 x 200 mm)
Housing	rectangular with M18 thread
Dimensions [mm]	53 x 20 x 37.7

Electrical data

Operating voltage [V]	10...30 DC; (cULus - Class 2 source required)
Current consumption [mA]	< 35
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	< 0.3
Converter frequency [kHz]	200

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 1; Number of analog outputs: 1
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Outputs

Total number of outputs	2
Output signal	switching signal; analog signal
Electrical design	PNP
Number of digital outputs	1
Output function	normally open / closed; (configurable)
Max. voltage drop switching output DC [V]	2.2
Permanent current rating of switching output DC [mA]	100

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Ultrasonic sensor

UGQ01200E1KG/US

Switching frequency DC	[Hz]	5
Number of analog outputs		1
Analog current output	[mA]	4...20
Max. load	[Ω]	500
Short-circuit protection		yes
Overload protection		yes

Monitoring range		
Sensing range	[mm]	80...1200; (Target: 200 x 200 mm)
Blind zone	[mm]	80
Angle of aperture cylindrical	[°]	14; (±2)
Max. deviation from the 90° angle sensor/object	[°]	± 4

Accuracy / deviations		
Temperature compensation		yes
Hysteresis	[%]	< 1
Switch-point drift	[%]	-5...5
Linearity error of analog output	[%]	≤ 1
Repeatability		1 %
Resolution	[mm]	3
Notes on the accuracy / deviation		The indicated values are reached after a warm-up time of min. 20 minutes

Reaction times		
Response time	[ms]	< 450; (analog output)

Operating conditions		
Ambient temperature	[°C]	-20...70
Storage temperature	[°C]	-30...80
Protection		IP 67

Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	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, vibration duration 5 min., 30 min. per axis with resonance or 55 Hz
Shock resistance	EN 60068-2-27 Ea	30 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes
MTTF	[years]	190
UL approval	Ta	-20...70 °C
	voltage supply	Class 2
	File number UL	E174191

Mechanical data		
Weight	[g]	99
Housing		rectangular with M18 thread

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Ultrasonic sensor

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Dimensions	[mm]	53 x 20 x 37.7
Thread designation		M18 x 1
Material		stainless steel (630/1.4542/17-4 PH); PBT; PA; epoxy glass ceramics
Tightening torque	[Nm]	50

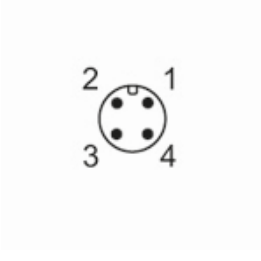
Displays / operating elements		
Display	Switching status	1 x LED, yellow
	echo	1 x LED, green
Teach function		yes

Accessories	
Items supplied	lock nuts: 1 x M18, stainless steel

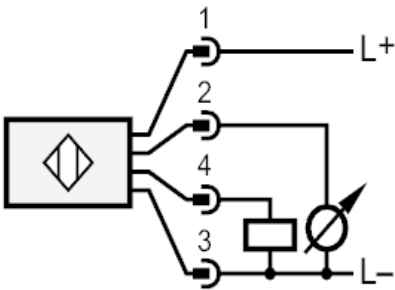
Remarks	
Remarks	cULus - Class 2 source required
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection





Diagrams and graphs



- 1: Distance
- 2: Monitoring range
- 3: switch-on/switch-off graph
- 4: Target 200 x 200 mm
- 5: 50 % of the target in the detection zone
- 6: Set point