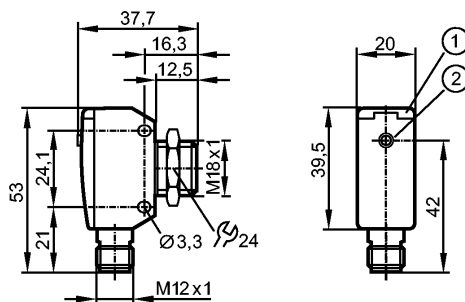




## UGT582

UGQ00800E1KG/US

Ultrasonic sensors



1: LEDs

2: teach button



### Product characteristics

Ultrasonic diffuse-reflection sensor

Cube

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]   | 230        |

### Inputs

|       |     |
|-------|-----|
| Teach | yes |
|-------|-----|

### Outputs

|                          |                                               |
|--------------------------|-----------------------------------------------|
| Output function          | 1 x NO / NC programmable + 1 x current output |
| Current rating [mA]      | 100                                           |
| Voltage drop [V]         | 2.2                                           |
| Short-circuit protection | yes                                           |
| Overload protection      | yes                                           |
| Analogue output          |                                               |
| current output [mA]      | 4...20                                        |
| Max. load [ $\Omega$ ]   | 500                                           |
| Switching frequency [Hz] | 5                                             |

### Range

|                    |     |
|--------------------|-----|
| Sensing range [mm] | 800 |
| blind zone [mm]    | 60  |

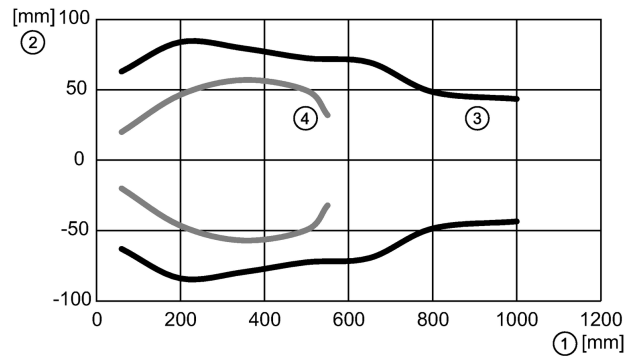


## UGT582

UGQ00800E1KG/US

Ultrasonic sensors

Response curve



Angle of aperture [°]

± 7

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

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

(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

1.4542; PBT; polyamide; Epoxid-Glaskeramik

Weight [kg]

0.095

### Displays / operating elements

Display

Switching status 1 LED yellow  
Echo LED 1 LED green

### Electrical connection

Connection

M12 connector

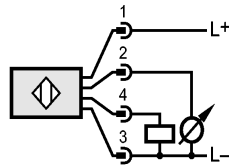
Wiring



## UGT582

UGQ00800E1KG/US

Ultrasonic sensors



### Accessories

|                        |                            |
|------------------------|----------------------------|
| Accessories (included) | 1 stainless steel lock nut |
|------------------------|----------------------------|

### Remarks

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

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