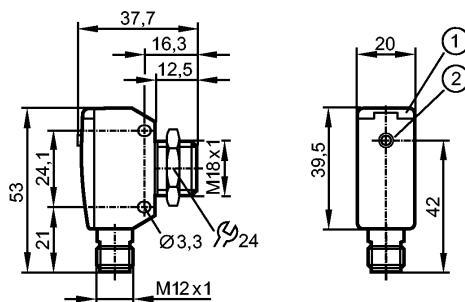




## UGT585

UGQ01200E2KG/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]   | 200        |

### Inputs

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

### Outputs

|                                   |                                               |
|-----------------------------------|-----------------------------------------------|
| Output function                   | 1 x NO / NC programmable + 1 x voltage output |
| Current rating [mA]               | 100                                           |
| Voltage drop [V]                  | 2.2                                           |
| Short-circuit protection          | yes                                           |
| Overload protection               | yes                                           |
| Analogue output                   |                                               |
| voltage output [V]                | 0...10                                        |
| Min. load resistance [ $\Omega$ ] | 3000                                          |
| Switching frequency [Hz]          | 5                                             |

### Range

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

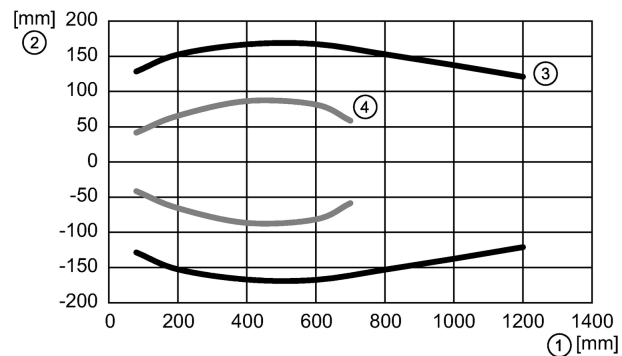


## UGT585

UGQ01200E2KG/US

Ultrasonic sensors

Response curve



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

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

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

### Displays / operating elements

Display

Switching status 1 LED yellow  
Echo LED 1 LED green

### Electrical connection

Connection

M12 connector

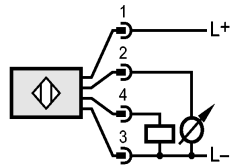
Wiring



## UGT585

UGQ01200E2KG/US

Ultrasonic sensors



### Accessories

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

### Remarks

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

ifm electronic gmbh • Friedrichstraße 1 • 45128 Essen — We reserve the right to make technical alterations without prior notice. — GB — UGT585 — 09.02.2016