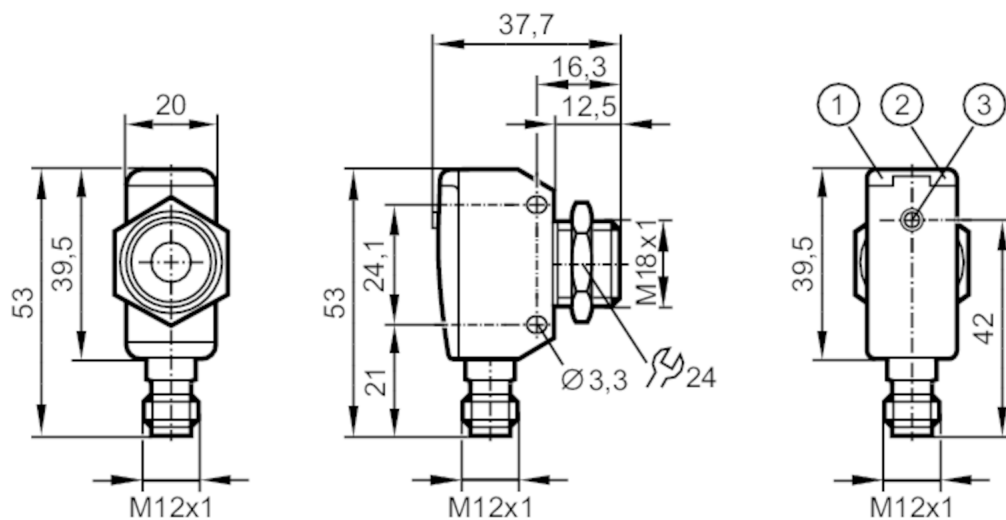


# UGT585

## Ultrasonic sensor

UGQ01200E2KG/US



- 1 LEDs
- 2 teach button



### Electrical data

|                             |       |                                         |
|-----------------------------|-------|-----------------------------------------|
| Operating voltage           | [V]   | 10...30 DC; ("supply class 2" to cULus) |
| Current consumption         | [mA]  | < 35                                    |
| Protection class            |       | III                                     |
| Reverse polarity protection |       | yes                                     |
| Power-on delay time         | [s]   | 0.1                                     |
| Converter frequency         | [kHz] | 200                                     |

### Inputs / outputs

|                              |                                                             |
|------------------------------|-------------------------------------------------------------|
| Number of inputs and outputs | Number of digital outputs: 1; Number of analogue outputs: 1 |
|------------------------------|-------------------------------------------------------------|

### Outputs

|                                                      |                                                    |
|------------------------------------------------------|----------------------------------------------------|
| Total number of outputs                              | 2                                                  |
| Electrical design                                    | PNP                                                |
| Number of digital outputs                            | 1                                                  |
| Output function                                      | normally open / normally closed; (parameterisable) |
| Max. voltage drop switching output DC [V]            | 2.2                                                |
| Permanent current rating of switching output DC [mA] | 100                                                |
| Switching frequency DC [Hz]                          | 5                                                  |
| Number of analogue outputs                           | 1                                                  |
| Analogue voltage output [V]                          | 0...10                                             |
| Min. load resistance [Ω]                             | 3000                                               |
| Short-circuit protection                             | yes                                                |
| Overload protection                                  | yes                                                |

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## Ultrasonic sensor

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| Detection zone                                  |                                                                      |                                                                                              |
|-------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Sensing range                                   | [mm]                                                                 | 80...1200                                                                                    |
| Blind zone                                      | [mm]                                                                 | 80                                                                                           |
| Angle of aperture cylindrical                   | [°]                                                                  | ±8                                                                                           |
| Detection range hysteresis                      | [mm]                                                                 | < 1                                                                                          |
| 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...2                                                                                       |
| Linearity error of analogue output              | [%]                                                                  | ≤ 1                                                                                          |
| Operating conditions                            |                                                                      |                                                                                              |
| 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                                                                                          |
| Vibration resistance                            | EN 55011                                                             | Class A                                                                                      |
|                                                 | EN 60068-2-6 Fc                                                      | (10-55) Hz 1 mm amplitude, oscillation period 5 min., 30 min. per axis at resonance or 55 Hz |
|                                                 | EN 60068-2-27 Ea                                                     | yes                                                                                          |
| Shock resistance                                |                                                                      |                                                                                              |
| MTTF                                            | [years]                                                              | 190                                                                                          |
| Mechanical data                                 |                                                                      |                                                                                              |
| Weight                                          | [g]                                                                  | 97.2                                                                                         |
| Housing                                         |                                                                      | rectangular                                                                                  |
| Dimensions                                      | [mm]                                                                 | M18 x 1                                                                                      |
| Thread designation                              |                                                                      | M18 x 1                                                                                      |
| Materials                                       |                                                                      | 1.4542 (17-4 PH / 630); PBT; PA; epoxy glass ceramics                                        |
| Displays / operating elements                   |                                                                      |                                                                                              |
| Display                                         | switching status                                                     | 1 LED, yellow                                                                                |
|                                                 | echo                                                                 | 1 LED, green                                                                                 |
| Accessories                                     |                                                                      |                                                                                              |
| Accessories (supplied)                          |                                                                      | lock nuts: 1, stainless steel                                                                |
| Remarks                                         |                                                                      |                                                                                              |
| Remarks                                         |                                                                      | operating voltage "supply class 2" according to cULus                                        |
| Pack quantity                                   |                                                                      | 1 pcs.                                                                                       |
| Electrical connection                           |                                                                      |                                                                                              |
| Connector: 1 x M12                              |                                                                      |                                                                                              |

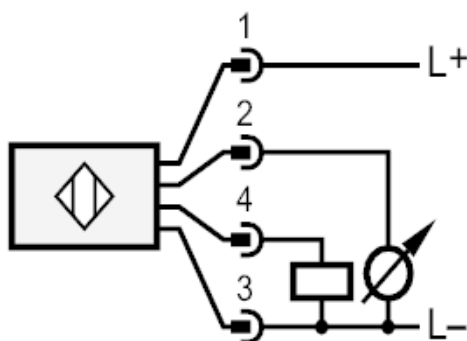
# UGT585

## Ultrasonic sensor

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### Connection





### Diagrams and graphs



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