



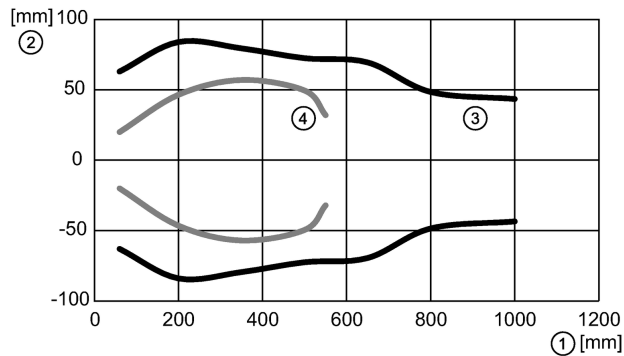


# UGT583

UGQ00800E2KG/US

Ultrasonic sensors

## Response curve



1: Distance; 2: Sound beam; 3: Target 100 x 100 mm; 4: Target Ø 25 mm

|   |     |     |
|---|-----|-----|
| 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<br>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  |
| MTTF                 | [Years]                    | 191  |
| Vibration resistance |                            | (10-55) Hz 1 mm amplitude,<br>vibration duration 5 min., 30 min.<br>per axis with resonance or 55 Hz |
|                      | EN 60068-2-6 Fc            |  |
| Shock resistance     | EN 60068-2-27 Ea           | yes  |

### Mechanical data

|                   |  |       |
|-------------------|--|-------|
| Housing materials | 1.4542; PBT; polyamide; Epoxid-Glaskeramik |       |
| Weight            | [kg]                                       | 0.097 |

### Displays / operating elements

|         |   |  |
|---------|---|--|
| Display | Switching status 1 LED yellow<br>Echo LED 1 LED green |  |
|---------|---|--|

### Electrical connection

|            |               |  |
|------------|---------------|--|
| Connection | M12 connector |  |
|------------|---------------|--|

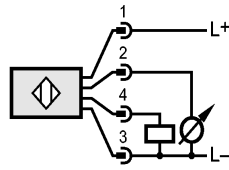
### Wiring



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### Accessories

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

### Remarks

|         |                                 |
|---------|---------------------------------|
| Remarks | cULus - Class 2 source required |
|---------|---------------------------------|

|               |         |   |
|---------------|---------|---|
| Pack quantity | [piece] | 1 |
|---------------|---------|---|