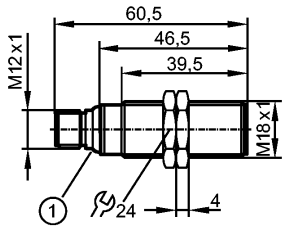
# UGT506

UGB01200EOKG/US

**Ultrasonic sensors**



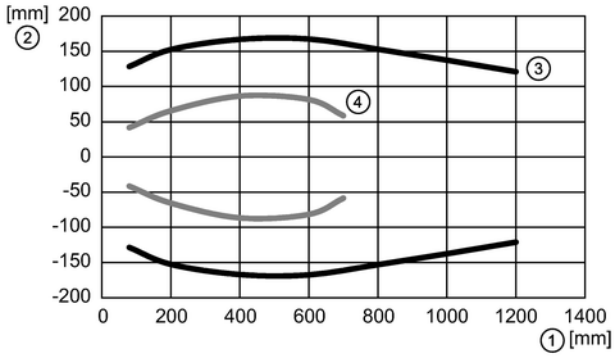

1: LEDs

| | | |
|---|---|---|
| **Product characteristics** | | |
| Ultrasonic diffuse-reflection sensor | | |
| Threaded type | | |
| M18 x 1 | | |
| 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 |
| Synchronisation | | no |
| Multiplex | | no |
| **Outputs** | | |
| Output function | | normally open / closed programmable |
| Current rating | [mA] | 100 |
| Voltage drop | [V] | 2.2 |
| Short-circuit protection | | yes |
| Overload protection | | yes |
| Switching frequency | [Hz] | 5 |
| **Range** | | |
| Sensing range | [mm] | 1200 |
| blind zone | [mm] | 80 |

# UGT506

UGB01200EOKG/US

**Ultrasonic sensors**

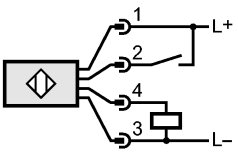
| | | |
|---|---|---|
| Response curve | |  1: Distance; 2: Sound beam; 3: Target 200 x 200 mm; 4: Target Ø 25 mm |
| Angle of aperture | [°] | 7 ±2 |
| Max. deviation from the 90° angle sensor / object | [°] | ± 4 |
| **Accuracy / deviations** | | |
| Notes on the accuracy / deviation | | The indicated values are reached after a warm-up time of ≥ 20 minutes |
| Temperature compensation | | yes |
| Hysteresis | [%] | < 1 |
| Switch-point drift | [%] | ± 2.5 |
| 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<br>EN 61000-4-3 HF radiated: 3 V/m<br>EN 61000-4-4 Burst: 2 kV<br>EN 61000-4-6 HF conducted: 3 V<br>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<br>EN 60068-2-6 Fc |
| Shock resistance | | EN 60068-2-27 Ea yes |
| **Mechanical data** | | |
| Housing materials | | 1.4404; polyamide; Epoxid-Glaskeramik |
| Weight | [kg] | 0.095 |
| **Displays / operating elements** | | |
| Display | | Switching status 1 LED yellow<br>Echo LED 1 LED green |
| **Electrical connection** | | |
| Connection | | M12 connector |
| **Wiring** | | |

# UGT506

UGB01200EOKG/US

**Ultrasonic sensors**




2: Teach

## Accessories

| | |
|---|---|
| Accessories (included) | 2 fixing nuts, stainless steel; 2 washers, stainless steel |

## Remarks

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