

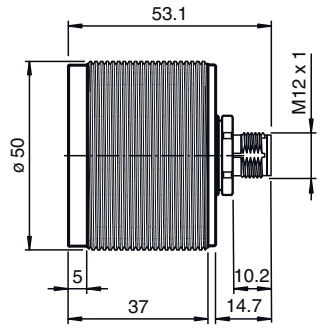
# Ultrasonic sensor

## UCC4000-50GK-B26-V15-Y70169750

- Thread M50
- PTFE coated transducer
- M12 male connector
- PWM output
- Power save mode
- Temperature compensation
- Customer-specific configuration

Single head system

## Dimensions




## Technical Data

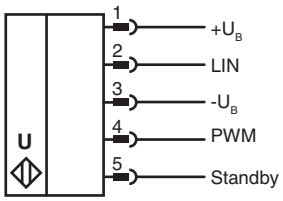
| | | |
|---|---|---|
| **General specifications** | | |
| Sensing range | | 250 ... 4000 mm |
| Dead band | | 0 ... 250 mm |
| Standard target plate | | 100 mm x 100 mm |
| Transducer frequency | | approx. 75 kHz |
| **Electrical specifications** | | |
| Operating voltage | $U_B$ | 2.5 ... 5 V DC |
| No-load supply current | $I_0$ | ≤ 60 mA at 3.3 V DC |
| Quiescent current indication | | < 3 µA In standby mode |
| Power consumption | $P_0$ | ≤ 250 mW in the measurement operating mode |
| Time delay before availability | $t_v$ | ≤ 95 ms |
| **Interface 1** | | |
| Interface type | | Physical LIN interface |
| Transfer rate | | 19.2 kBit/s (8N1) |
| Cycle time | | 80 ms |
| Resolution | | 16 mm (corresponding to 1 LSB) |
| **Input** | | |
| Input type | | Standby active |
| Signal level | | low: 0 ... 0.8 V |
| **Output** | | |
| Output type | | PWM output (PNP) , not short-circuit protected |

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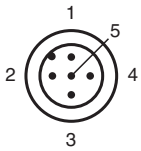
## Technical Data

| | | |
|---|---|---|
| Resolution | | pulse length 10 µs /cm |
| Output current | | max. 10 mA |
| Temperature influence | | 3 % of full-scale value over the entire temperature range |
| **Directive conformity** | | |
| Electromagnetic compatibility | | |
| Directive 2014/30/EU | | EN IEC 60947-5-2:2020 : chapter 8.2.6.2.2, 8.2.6.2.3, 8.2.6.3<br>The sensor is designed to be supplied by a battery. The sensor signals are further processed in a control unit, which is also responsible for EMC protection. |
| **Approvals and certificates** | | |
| UL approval | | UL Recognized , General purpose , Class 2 power source |
| **Ambient conditions** | | |
| Ambient temperature | | -25 ... 70 °C (-13 ... 158 °F) |
| Storage temperature | | -40 ... 85 °C (-40 ... 185 °F) |
| **Mechanical specifications** | | |
| Connection type | | Connector plug |
| Degree of protection | | IP67 |
| Material | | |
| Housing | | PBT |
| Transducer | | epoxy resin/hollow glass bead mixture; Polyurethane foam, PTFE coated |
| Connector | | |
| Threading | | M12 x 1 |
| Number of pins | | 5 |
| Mass | | 115 g |
| Dimensions | | |
| Height | | 54 mm |
| Width | | 50 mm |
| Length | | 50 mm |
| **Factory settings** | | |
| Default setting | | Temperature compensation<br>Address setting 7 |
| Beam width | | wide |
| **General information** | | |
| Scope of delivery | | 2 nuts plastic |

## Connection Assignment




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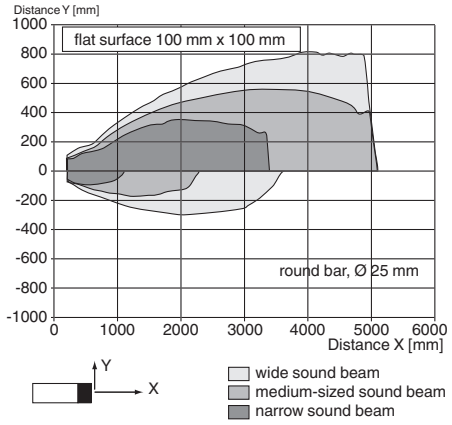
## Connection Assignment

Wire colors in accordance with EN 60947-5-2

| | | |
|---|---|---|
| 1 | BN | (brown) |
| 2 | WH | (white) |
| 3 | BU | (blue) |
| 4 | BK | (black) |
| 5 | GY | (gray) |

## Characteristic Curve

### Characteristic response curve




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