

Ultrasonic sensor

UCC2500-30GM-B26-Y70115506

- Physical LIN interface
- Temperature compensation
- Metal housing

Single head system



Technical Data

General specifications

| | |
|-----------------------|-----------------|
| Sensing range | 150 ... 2500 mm |
| Dead band | 0 ... 150 mm |
| Standard target plate | 100 mm x 100 mm |
| Transducer frequency | approx. 120 kHz |

Electrical specifications

| | | |
|--------------------------------|-------|--|
| Operating voltage | U_B | 8 ... 18 V DC , ripple 10 % _{SS} |
| No-load supply current | I_0 | ≤ 20 mA at 12 V DC |
| Power consumption | P_0 | ≤ 250 mW in the measurement operating mode |
| Time delay before availability | t_v | ≤ 70 ms |

Interface

| | |
|----------------|------------------------|
| Interface type | Physical LIN interface |
| Transfer rate | 19.2 kBit/s (8N1) |
| Cycle time | 55 ms |

Output

| | |
|-----------------------|---|
| Resolution | 10 mm (corresponding to 1 LSB) |
| Repeat accuracy | 10 mm (corresponding to 1 LSB) |
| Temperature influence | 3 % of full-scale value over the entire temperature range |

Directive conformity

| | |
|-------------------------------|--|
| Electromagnetic compatibility | |
| Directive 2014/30/EU | EN 60947-5-2:2007+A1:2012 : chapter 8.6.2.1, 8.6.2.2, 8.6.3 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. |

Ambient conditions

| | |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
| Storage temperature | -40 ... 85 °C (-40 ... 185 °F) |

Mechanical specifications

| | |
|----------------------|---|
| Connection type | Cable connector with PVC cable 3 x 0.25 mm ² , L = 150 mm , JST connector: PHR-3 , 3-pin |
| Degree of protection | IP65 (connector excluded) |
| Material | |
| Housing | brass, nickel-plated |
| Transducer | epoxy resin/hollow glass sphere mixture; polyurethane foam |
| Mass | 65 g |

Factory settings

| | |
|--------|---|
| Output | Temperature compensation Address setting 7 |
|--------|---|

General information

| | |
|-------------------|--------|
| Scope of delivery | 2 nuts |
|-------------------|--------|

Release date: 2020-05-25 Date of issue: 2021-02-05 Filename: 70115506_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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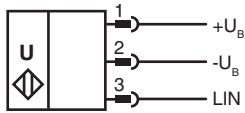
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Connection



Accessories

| | | |
|--|-------------------|--|
| | UC-30GM-R2 | |
|--|-------------------|--|

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