

Ultrasonic sensor UCC2500-50GK-B26-8MOL-Y

- Thread M50
- PTFE coated transducer
- Power save mode
- Physical LIN interface
- Serial Interfaces
- Temperature compensation
- 3 m connection cable

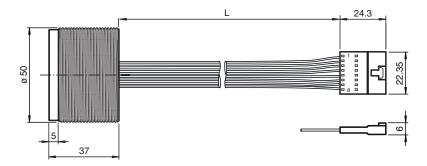
Single head system



Function

The distance measurement is carried out over the runtime of the ultrasonic impulse. A measuring cycle is triggered by sending a start telegram. Once the measurement has been taken, the result is returned in 8-bit form.

Dimensions



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	for UART and PWM operation: UUART/PWM = 2.5 5 V DC, typical 3.3 V for LIN operation: ULIN = 8 18 V DC, typical 12 V
No-load supply current	I ₀	≤ 60 mA at 3.3 V DC ≤ 20 mA at 12 V DC
Quiescent current indication		$<$ 3 μ A during standby mode at UART- and PWM operation
Power consumption	P_0	≤ 250 mW in the measurement operating mode
Time delay before availability	t _v	≤ 70 ms

Technical Data

Interface 1 Physical LIN interface Interface type Transfer rate 19.2 kBit/s (8N1) Cycle time 55 ms Resolution 10 mm (corresponding to 1 LSB) Interface 2 UART 3.3V Interface type Transfer rate 19.2 kBit/s (8N1) Cycle time 55 ms Resolution 10 mm (corresponding to 1 LSB) Input Input type Standby active Signal level low: 0 ... 0.8 V Output Output type PWM output (PNP), deactivated **Directive conformity** Electromagnetic compatibility EN IEC 60947-5-2:2020 : chapter 8.2.6.2.2, 8.2.6.2.3, 8.2.6.3 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. Directive 2014/30/EU Approvals and certificates **EAC** conformity TR CU 020/2011 TR CU 037/2016 **Ambient conditions** -25 ... 70 °C (-13 ... 158 °F) Ambient temperature Storage temperature -40 ... 85 °C (-40 ... 185 °F) Mechanical specifications Connection type fixed cable with plug IP66 / IP67 (connector excluded) Degree of protection Material Housing **PBT** epoxy resin/hollow glass bead mixture; Polyurethane foam, PTFE coated Transducer Molex connector 70107-0007 Connector Number of pins Cable $3000 \text{ mm} \pm 50 \text{ mm}$ Length Mass 142 g **Factory settings** Default setting Address setting 7 Temperature compensation active PWM output (PNP), deactivated Output Beam width wide

General information Scope of delivery

2 nuts plastic

FPEPPERL+FUCHS

Characteristic Curve

Characteristic response curve

