

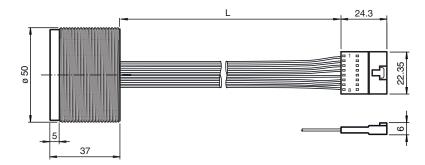
### Single head system



### 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 250 ... 4000 mm Dead band 0 ... 250 mm Standard target plate 100 mm x 100 mm Transducer frequency approx. 75 kHz **Electrical specifications** for UART and PWM operation: $U_{UART/PWM} = 2.5 ... 5 V DC$ , typical 3.3 V for LIN operation: Operating voltage $U_B$ $U_{\text{LIN}} = 8 \dots 18 \text{ V DC}$ , typical 12 V $\leq$ 60 mA at 3.3 V DC $\leq$ 20 mA at 12 V DC No-load supply current $I_0$ Quiescent current indication < 3 µA during standby mode at UART- and PWM operation Power consumption $\mathbf{P}_0$ ≤ 250 mW in the measurement operating mode

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

Time delay before availability

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Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

t<sub>v</sub>

≤ 95 ms

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



# UCC4000-50GK-B26-8MOL

Technical Data		
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)
Interface 2		
Interface type		UART 3.3V
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
Resolution		pulse length 10 μs /cm
Output rated operating 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 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		fixed cable with plug
Degree of protection		IP66 / IP67 ( connector excluded )
Material		
Housing		PBT
Transducer		epoxy resin/hollow glass bead mixture; Polyurethane foam, PTFE coated
Connector		Molex connector 70107-0007
Number of pins		8
Cable		
Length	L	276 mm ± 20 mm
Mass		100 g
Factory settings		
Output		PWM output (PNP) Temperature compensation Address setting 7
Beam width		wide
General information		
Scope of delivery		2 nuts plastic

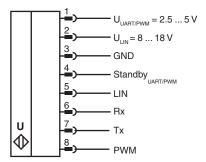
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#### Ultrasonic sensor

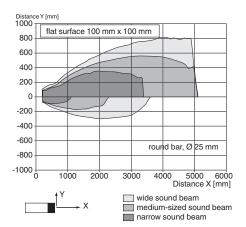
# UCC4000-50GK-B26-8MOL

### Connection



# **Characteristic Curve**

#### Characteristic response curve



Release date: 2021-09-01 Date of issue: 2021-09-01 Filename: 312898\_eng.pdf

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

