



## 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

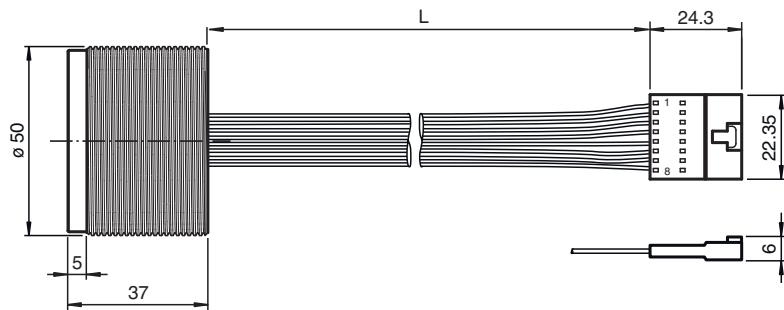
Single head system



### 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

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#### 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: $U_{UART/PWM} = 2.5 \dots 5$ V DC, typical 3.3 V for LIN operation: $U_{LIN} = 8 \dots 18$ V DC, typical 12 V
No-load supply current	$I_0$	$\leq 60$ mA at 3.3 V DC $\leq 20$ mA at 12 V DC
Quiescent current indication		$< 3$ $\mu$ A during standby mode at UART- and PWM operation
Power consumption	$P_0$	$\leq 250$ mW in the measurement operating mode
Time delay before availability	$t_v$	$\leq 70$ ms

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

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## Technical Data

## Interface 1

Interface type	Physical LIN interface
Transfer rate	19.2 kBit/s (8N1)
Cycle time	55 ms
Resolution	10 mm (corresponding to 1 LSB)

## Interface 2

Interface type	UART 3.3V
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
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## 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 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.
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## 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	3000 mm ± 50 mm
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Mass	142 g
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## Dimensions

Height	37 mm
Width	50 mm
Length	50 mm

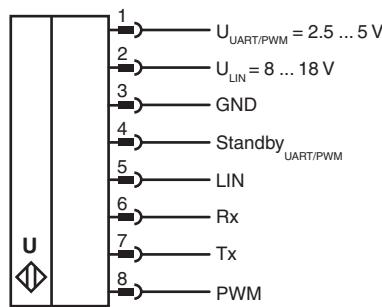
## Factory settings

Default setting	Address setting 7 Temperature compensation active
Output	PWM output (PNP) , deactivated
Beam width	wide

## General information

Scope of delivery	2 nuts plastic
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## Connection



## Characteristic Curve

### Characteristic response curve

