

## Ultrasonic sensor

UCC2500-50GK-B26-V15-Y70103913

- Thread M50
- PTFE coated transducer
- Serial Interfaces
- Temperature compensation
- Customer-specific configuration

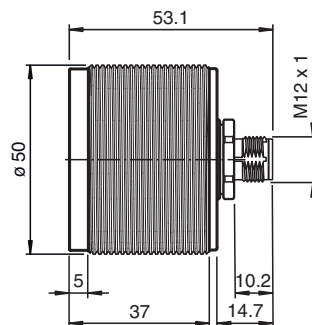
Single head system



### 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	$U_B$	3 ... 5.5 V DC
No-load supply current	$I_0$	$\leq 70$ mA at 3.3 V DC
Power consumption	$P_0$	$\leq 250$ mW in the measurement operating mode
Time delay before availability	$t_v$	$\leq 70$ ms

#### Interface

Interface type	UART 3.3V
Transfer rate	19.2 kBit/s (8N1)

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

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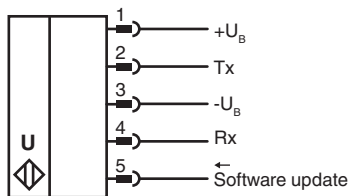
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## Technical Data

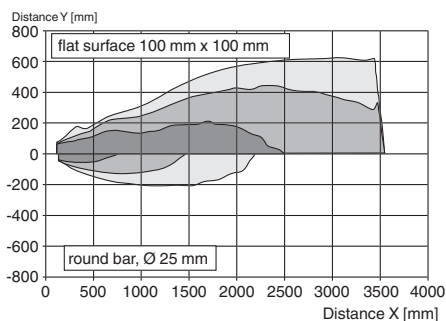
Cycle time	55 ms
Resolution	10 mm (corresponding to 1 LSB)
Temperature influence	4 % of full-scale value over the entire temperature range
<b>Input</b>	
Input type	Physical LIN interface
Function	for Software Update/s
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 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.
<b>Ambient conditions</b>	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
<b>Mechanical specifications</b>	
Connection type	Connector plug M12 x 1 , 5-pin
Degree of protection	IP67
Material	
Housing	PBT
Transducer	epoxy resin/hollow glass bead mixture; Polyurethane foam, PTFE coated
Mass	115 g
<b>Factory settings</b>	
Default setting	Temperature compensation Address setting 7
<b>General information</b>	
Scope of delivery	2 nuts plastic

## Connection



## Characteristic Curve

### Characteristic response curve



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