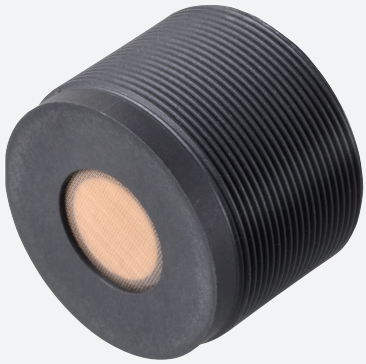


Ultrasonic sensor

UCC2500-50GK-B26-0,15M-Y

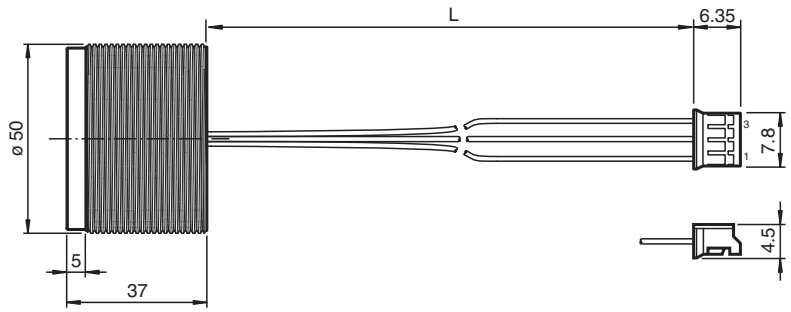
- Thread M50
- PTFE coated transducer
- Physical LIN interface
- Temperature compensation
- Resolution 16 Bit

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 16-bit form.

Dimensions



Technical Data

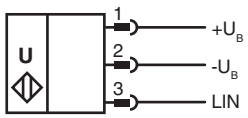
General specifications		
Sensing range		150 ... 2500 mm
Dead band		0 ... 150 mm
Standard target plate		100 mm x 100 mm
Transducer frequency		approx. 120 kHz
Electrical specifications		
Operating voltage	U_B	8 ... 18 V DC , ripple 10 $\%_{SS}$
No-load supply current	I_0	≤ 20 mA at 12 V DC
Power consumption	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)

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Technical Data

Cycle time		55 ms
Output		
Resolution		2 mm
Repeat accuracy		≤ 0.1 % of full-scale value
Temperature influence		3 % of full-scale value over the entire temperature range
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.
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		
Type		JST connector: PHR-3
Number of pins		3
Cable		
Cable diameter		3 x 0.25 mm²
Material		PVC
Length	L	150 mm
Mass		100 g
Dimensions		
Height		37 mm
Width		50 mm
Length		50 mm
Factory settings		
Output		Temperature compensation Address setting 7
General information		
Scope of delivery		1 Nut plastic

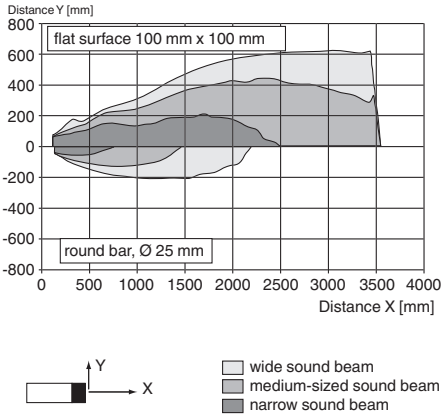
Connection



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Characteristic Curve

Characteristic response curve



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