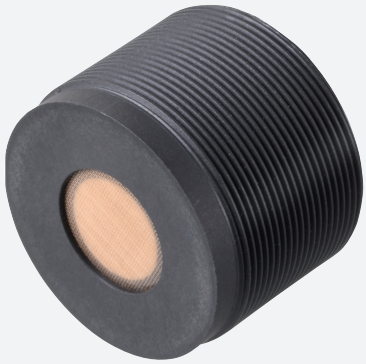


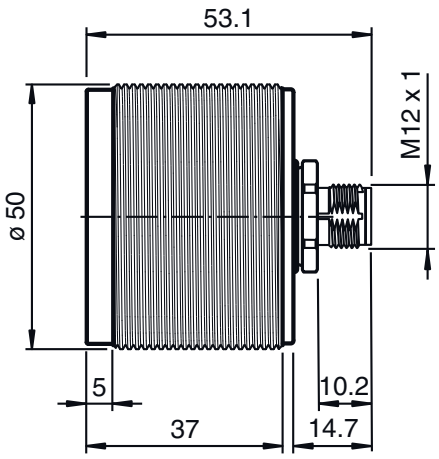
Ultrasonic sensor

UCC2500-50GK-B26-V15-Y70169749

- Thread M50
- PTFE coated transducer
- M12 male connector
- PWM output
- Power save mode
- Temperature compensation
- Customer-specific configuration

Single head system

Dimensions



Technical Data

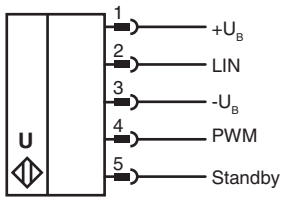
General specifications		
Sensing range		150 ... 2500 mm
Dead band		0 ... 150 mm
Standard target plate		100 mm x 100 mm
Transducer frequency		approx. 120 kHz
Electrical specifications		
Operating voltage	U_B	2.5 ... 5 V DC
No-load supply current	I_0	≤ 60 mA at 3.3 V DC
Quiescent current indication		< 3 µA In standby mode
Power consumption	P_0	≤ 250 mW in the measurement operating mode
Time delay before availability	t_v	≤ 70 ms
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)

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Technical Data

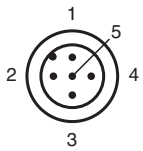
Input		
Input type		Standby active
Signal level		low: 0 ... 0.8 V
Output		
Output type		PWM output (PNP) , not short-circuit protected
Resolution		pulse length 10 µs /cm
Output current		max. 10 mA
Temperature influence		3 % of full-scale value over the entire temperature range
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 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.
Approvals and certificates		
UL approval		UL Recognized , General purpose , Class 2 power source
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		Connector plug
Degree of protection		IP67
Material		
Housing		PBT
Transducer		epoxy resin/hollow glass bead mixture; Polyurethane foam, PTFE coated
Connector		
Threading		M12 x 1
Number of pins		5
Mass		115 g
Dimensions		
Height		54 mm
Width		50 mm
Length		50 mm
Factory settings		
Default setting		Temperature compensation Address setting 7
Beam width		wide
General information		
Scope of delivery		2 nuts plastic

Connection Assignment



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Connection Assignment

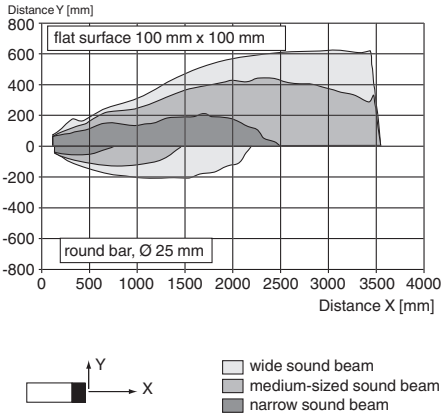


Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)
5	GY	(gray)

Characteristic Curve

Characteristic response curve



wide sound beam
medium-sized sound beam
narrow sound beam

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