

Ultrasonic sensor

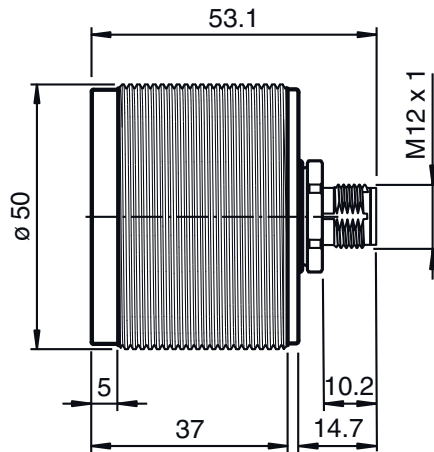
UCC2500-50GK-B26-V15-Y70169749

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

Single head system



Dimensions



Technical Data

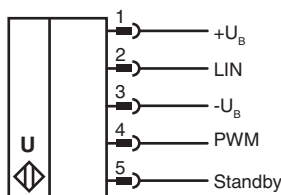
General specifications		
Sensing range		150 ... 2500 mm
Dead band		0 ... 150 mm
Standard target plate		100 mm x 100 mm
Transducer frequency		approx. 120 kHz
Electrical specifications		
Operating voltage	U_B	2.5 ... 5 V DC
No-load supply current	I_0	≤ 60 mA at 3.3 V DC
Quiescent current indication		< 3 μ A 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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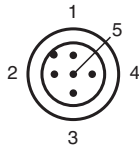
Technical Data

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 μ s /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



Connection Assignment

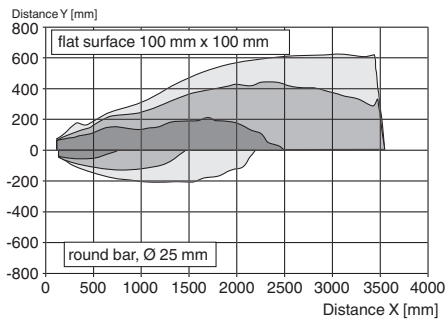


Wire colors in accordance with EN 60947-5-2

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

Characteristic Curve

Characteristic response curve



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