

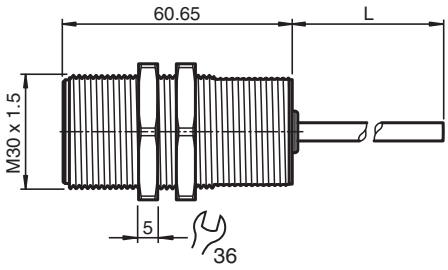
Ultrasonic sensor

UC2500-30GK-B26-Y70151851

- Physical LIN interface
- Temperature compensation
- M30 plastic housing
- Cable connection
- Customer-specific configuration

Single head system

Dimensions



Technical Data

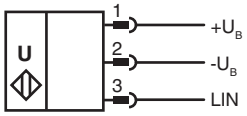
General specifications		
Sensing range		150 ... 2500 mm
Dead band		0 ... 150 mm
Standard target plate		100 mm x 100 mm
Transducer frequency		approx. 120 kHz
Electrical specifications		
Operating voltage	U_B	8 ... 18 V DC , ripple 10 $\%_{SS}$
No-load supply current	I_0	≤ 20 mA at 12 V DC
Power consumption	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)
Cycle time		55 ms
Output		
Resolution		10 mm (corresponding to 1 LSB)

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Technical Data

Repeat accuracy		10 mm (corresponding to 1 LSB)
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
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		cable
Degree of protection		IP65
Material		
Housing		plastic , PBT
Transducer		epoxy resin/hollow glass sphere mixture; polyurethane foam
Cable		
Cable diameter		3 mm
Material		PUR
Core cross section		0.34 mm²
Length	L	1 m
Mass		65 g
Dimensions		
Diameter		30 mm
Factory settings		
Default setting		Temperature compensation Address setting 7
Synchronization		Firmware
General information		
Scope of delivery		2 nuts plastic

Connection Assignment



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