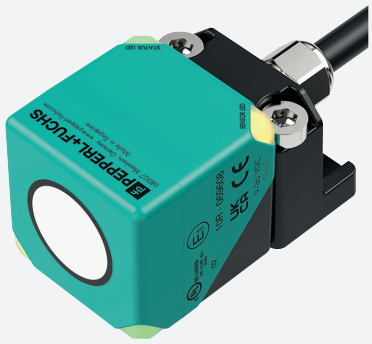


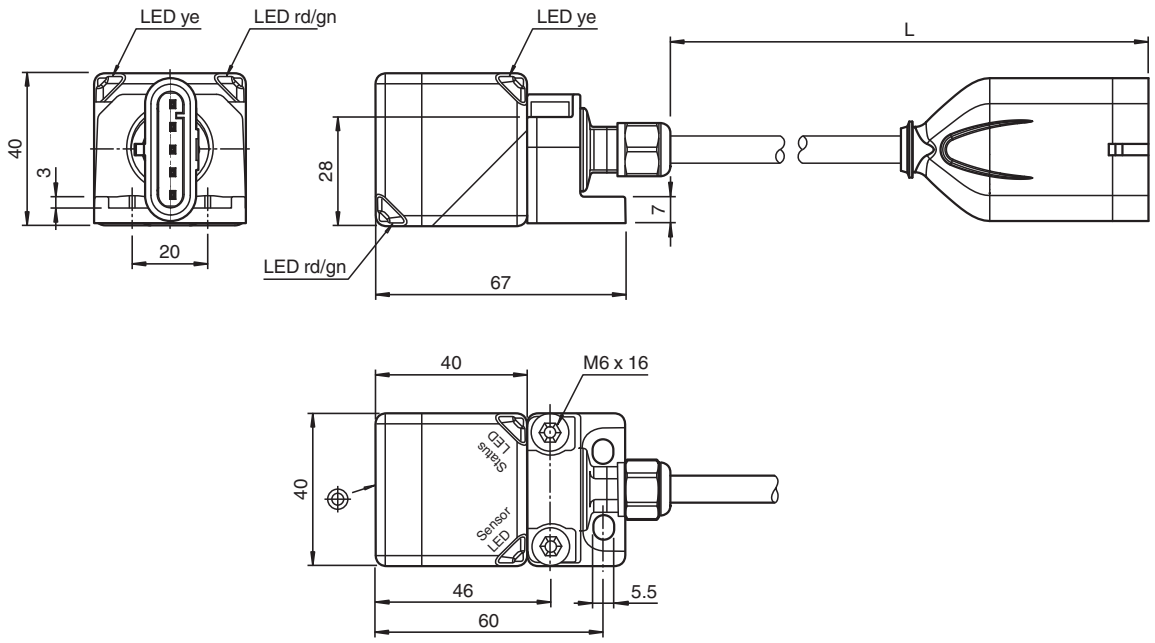
Ultrasonic sensor

UC2000-L2M-B16-0,3M-APS5P-M

- CANopen interface
- E1-Type approval
- High EMC resistance
- Sensor head bidirectional and rotatable
- Rugged metal base
- Function indicators visible from all directions
- Degree of protection IP68
- Amp connector

Single head system

Dimensions



Technical Data

General specifications		
Sensing range		80 ... 2000 mm
Adjustment range		120 ... 2000 mm
Dead band		0 ... 80 mm
Standard target plate		100 mm x 100 mm
Transducer frequency		approx. 175 kHz
Nominal ratings		
Linearity error		< 20 mm
Temperature drift		< +/- 20 mm
Time delay before availability	t_v	≤ 700 ms
Functional safety related parameters		

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Technical Data

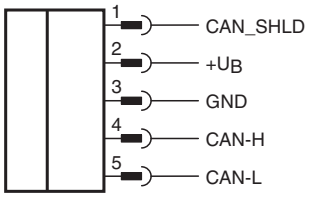
$MTTF_d$		421 a
Mission Time (T_M)		10 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
LED yellow		object in evaluation range
LED red/green		CANopen status display
Electrical specifications		
Operating voltage	U_B	9 ... 30 V DC
No-load supply current	I_0	≤ 50 mA
Power consumption	P_0	typ. 0.6 W
Interface		
Interface type		CAN
Communication protocol		CANopen
Process data		Input: 48 Bit - measured value (distance value) 16 Bit - signal quality 8 Bit - counter-1 16 Bit or counter-2 8 Bit - status register 8 Bit
Node ID		programmable
Vendor ID		173 (0xAD)
Product code		50331650 (0x03000002)
Transfer rate		250 kBit/s , programmable 125 ... 1000 kBit/s
Termination		external
Cycle time		28.5 ms preset , programmable
Min. cycle time		28.5 ms
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2:2020 IEC 60947-5-2:2019
Communication interface		CiA 310, Ver. 4.2.0
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
UN/ECE Regulation No. 10 (E1)		Type-approval number: 10R-069608
Ambient conditions		
Ambient temperature		-40 ... 85 °C (-40 ... 185 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		fixed cable with plug
Degree of protection		IP68
Material		
Housing		PA-GF35
Connector		
Number of pins		5
Connection assembly		AMP connector Superseal 282107-1 AMP contact Superseal 282109-1
Cable		
Cable diameter		7.25 mm ± 0.2 mm
Bending radius		> 10 x cable diameter
Material		PUR
Color		black
Number of cores		5
Core cross section		0.8 mm^2
Length	L	345 mm ± 5 mm
Mass		245 g

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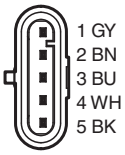
Technical Data

Dimensions		
Height		40 mm
Width		40 mm
Length		67 mm
Factory settings		
Default setting		measured value "distance", signal quality, counter-2 (object 0x2000)
Beam width		wide (object 0x4000)
Synchronization		deactivated (object 0x2020)
Node ID		16
Transfer rate		250 kBit/s

Connection Assignment

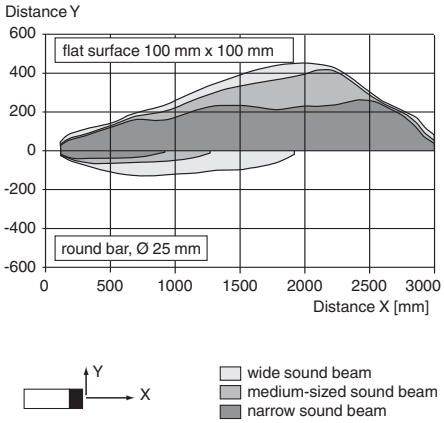


Connection Assignment



Characteristic Curve

Characteristic response curve



wide sound beam
medium-sized sound beam
narrow sound beam

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