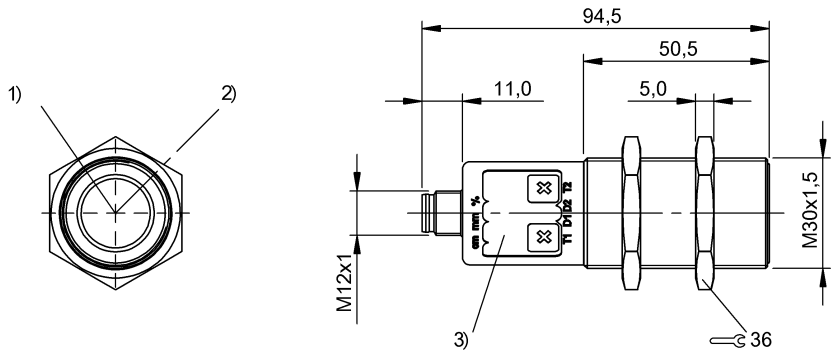
Ultrasonic Sensors

BUS M30M1-PWX-20/130-S92K
Order Code: BUS003C



1) Ultrasonic transducer axis, 2) Exit direction 90° connector, 3) Display and control panel

Basic features

Application	Object detection
Approval/Conformity	cULus LISTED CE EAC WEEE
Operating mode	Retro-reflector Reflectionlight scanner (switching point) Refl.light scanner (window)
Series	M30M1

Display/Operation

Adjuster	Key (2x)
Setting	Multiplex speed Synchronization on/off Synchronous/Multiplex mode Segment displ. bright/dark/off Filter strength (10 levels) Response delay 0 to 20 s Foreground suppression range Multiplex sensor address Sensor calibration Temperature comp. on/off Measured value filter Hysteresis Detection range (3 levels) Teach-in mode display/button Factory setting (Reset) Key disable on/off Operating mode Switching distance, 2 values Normally open/Normally closed

Electrical connection

Connection	M12x1-Male, 5-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Ultrasonic Sensors

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Electrical data

Current draw max.	80 mA
Hysteresis H max.	20 mm
Input function	Synchronization signal
Operating voltage Ub	9...30 VDC
Output current max.	200 mA
Rated operating voltage Ue DC	24 V
Switching frequency	8 Hz
Synchronization	internal, max. 10 sensors
Ultrasonic Frequency	200 kHz

Environmental conditions

Ambient temperature	-25...70 °C
IP rating	IP67
Storage temperature	-40...85 °C

Functional safety

MTTF (40 °C)	1483 a

Interface

Switching output	2x PNP normally open/normally closed (NO/NC)

Material

Housing material	Brass, nickel plated PBT, TPU
Material sensing surface	PU foam/Epoxy resin/Glass
Surface protection	nickel-plated

Mechanical data

Dimension	Ø 30 x 94.5 mm
Mounting part	Nut M30x1.5

Range/Distance

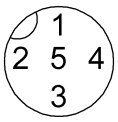
Range	200...2000 mm
Rated operating distance Sn	1300 mm
Repeat accuracy	± 0.15 %FS
Resolution	≤ 0.180 mm

Remarks

The sensor is functional again after the overload has been eliminated.
Reference object for Sn: tube ø27mm. Max. range refers to the aligned plate.
Do not press key using a pointed tool.
Order accessories separately.
For additional information, refer to user's guide.
For more information about MTTF and B10d see MTTF / B10d Certificate

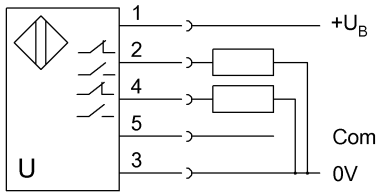
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings

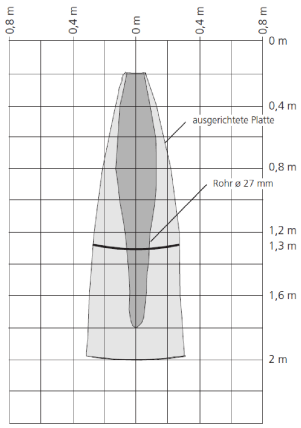


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Wiring Diagrams



Technical Drawings



Help Views

