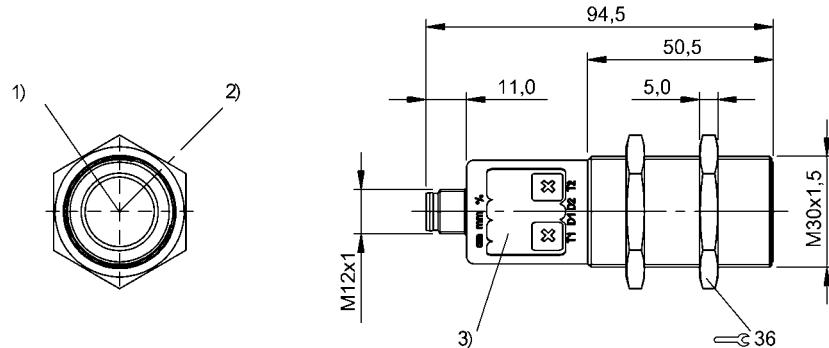


Ultrasonic Sensors

BUS M30M1-PWC-20/130-S92K

Order Code: BUS003N

BALLUFF

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

**Basic features**

Application	Distance measurement Object detection
Approval/Conformity	cULus CE WEEE UKCA
Operating mode	Refl.light scanner (window) Reflectionlight scanner (switching point) Retro-reflector Analog measurement (output curve)
Series	M30M1

Display/Operation

Adjuster	Key (2x)
Display	Distance value - segment display Output function- LED yellow Object not in range - LED red Object in range - LED green Sensor settings - segment display
Setting	Response delay 0 to 20 s Filter strength (10 levels) Segment displ. bright/dark/off Foreground suppression range Multiplex sensor address Sensor calibration Temperature comp. on/off Output curve rising/falling Analog output U/I/Auto Segment display mode Synchronous/Multiplex mode Synchronization on/off Multiplex speed Measured value filter Hysteresis Key disable on/off Normally open/Normally closed Switching distance, 2 values Operating mode Detection range (3 levels) Teach-in mode display/button Factory setting (Reset) Output curve window

Ultrasonic Sensors
BUS M30M1-PWC-20/130-S92K
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Electrical connection

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

Electrical data

Current draw max.	80 mA
Hysteresis H max.	20 mm
Input function	Synchronization signal
Load resistance RL max. (Analog I)	500 Ohm at UB > 20 V 100 Ohm at UB < 20 V
Load resistance RL min. (Analog V)	100 kOhm at UB > 15 V
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

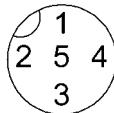
Ambient temperature	-25...70 °C
IP rating	IP67
Storage temperature	-40...85 °C

Remarks

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

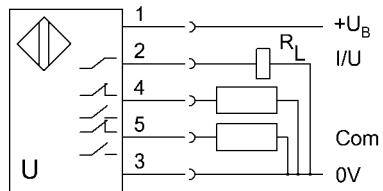
Connector Drawings



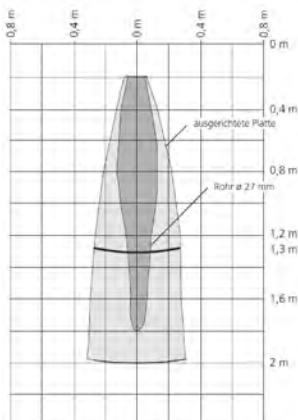
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BUS M30M1-PWC-20/130-S92K
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Wiring Diagrams



Technical Drawings



Help Views

