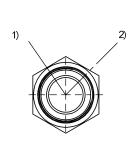
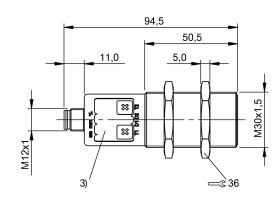
BUS M30M1-XC-20/130-S92K

Order Code: BUS003F







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









Basic features

Application	Distance measurement
Approval/Conformity	cULus
	CE
	WEEE
	UKCA
Operating mode	Analog measurement (output
	curve)
Series	M30M1

Display/Operation

Adjuster

•	, ()
Display	Distance value - segment display
	Object not in range - LED red
	Object in range - LED green
	Sensor settings - segment display
Setting	Filter strength (10 levels)
	Segment displ. bright/dark/off
	Synchronous/Multiplex mode
	Response delay 0 to 20 s
	Foreground suppression range
	Multiplex sensor address
	Sensor calibration
	Temperature comp. on/off
	Output curve rising/falling
	Analog output U/I/Auto
	Segment display mode
	Synchronization on/off
	Multiplex speed
	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

Key (2x)

Normally open/Normally closed Output curve window

Ultrasonic Sensors

BUS M30M1-XC-20/130-S92K Order Code: BUS003F



Electrical connection

Connection M12x1-Male, 5-pin

Polarity reversal protected yes Short-circuit protection yes

Electrical data

Current draw max. 80 mA

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 Rated operating voltage Ue DC 24 V

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

Analog output Analog, voltage/Analog, current

0...10 V/4...20 mA

Output characteristic linear rising/falling

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

 Measuring 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 $\emptyset 27 mm$. 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



BUS M30M1-XC-20/130-S92K

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