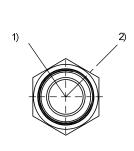
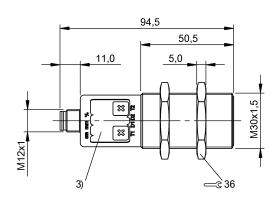
# BUS M30M1-PPC-20/130-S92K

Order Code: BUS0038







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



Series







Rasic	features
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#### Application Distance measurement Object detection Approval/Conformity cULus CE WEEE

Operating mode Refl.light scanner (window) Reflectionlight scanner (switching

> point) Retro-reflector

Analog measurement (output

curve) M30M1

UKCA

## Display/Operation

Adjuster	Key (2x)
Display	Distance

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

## BUS M30M1-PPC-20/130-S92K Order Code: BUS0038



#### 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

Load resistance RL min. (Analog V)100 kOhm at 200 mAOperating voltage Ub9...30 VDCOutput current max.200 mARated operating voltage Ue DC24 VSwitching frequency8 Hz

**Synchronization** internal, max. 10 sensors

Ultrasonic Frequency 200 kHz

#### **Environmental conditions**

## 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

Switching output PNP normally open/normally

closed (NO/NC)

### Material

Housing material Brass, nickel-plated

PBT, TPU

Material sensing surface PU foam/Epoxy resin/Glass

nickel-plated

#### Mechanical data

Surface protection

**Dimension** Ø 30 x 94.5 mm

### Range/Distance

 Measuring range
 200...2000 mm

 Rated operating distance Sn
 1300 mm

 Repeat accuracy
 ± 0.15 %FS

 Resolution
 ≤ 0.180 mm

#### 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**



## BUS M30M1-PPC-20/130-S92K

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