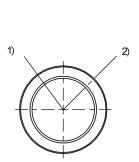
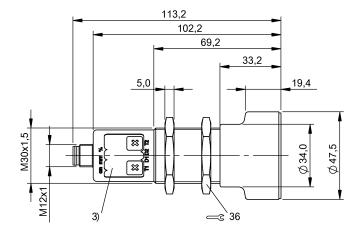
# BUS M30M1-PPC-35/340-S92K Order Code: BUS003L







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









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Basic	feati	ires

Application	Distance measurement
	Object detection
	Object detection

Approval/Conformity cULus CE WEEE UKCA

Operating mode Refl.light scanner (window)

Reflectionlight scanner (switching

point) Retro-reflector

Analog measurement (output

curve) M30M1

Series

## Display/Operation

Setting

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 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-35/340-S92K Order Code: BUS003L



#### 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. 50 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
Output current max.

Rated operating voltage Ue DC
Switching frequency

9...30 VDC
200 mA
24 V
4 Hz

**Synchronization** internal, max. 10 sensors

Ultrasonic Frequency 120 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

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 47.5 x 113.2 mm

 Mounting part
 Nut M30x1.5

#### Range/Distance

Measuring range350...5000 mmRated operating distance Sn3400 mmRepeat accuracy $\pm 0.15 \text{ %FS}$ Resolution $\leq 0.180 \text{ mm}$ 

#### 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  $\emptyset 27mm$ . 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-35/340-S92K



Order Code: BUS003L

