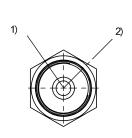
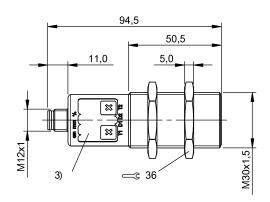
BUS M30M1-PPC-03/025-S92K Order Code: BUS002L







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







Basic features

Application Distance measurement

Object detection

Approval/Conformity cULus LISTED

CF EAC WEEE

Refl.light scanner (window) Operating mode

Reflectionlight scanner (switching

point) Retro-reflector

Analog measurement (output

curve) M30M1

Series

Display/Operation

Adjuster Key (2x)

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

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 mAHysteresis H max.3 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 Ub9...30 VDCOutput current max.200 mARated operating voltage Ue DC24 VSwitching frequency25 Hz

Synchronization internal, max. 10 sensors

Ultrasonic Frequency 320 kHz

Environmental conditions

Functional safety

MTTF (40 °C) 1483 a

Material

 Housing material
 Brass PBT, TPU

 Material sensing surface
 PU foam/Epoxy resin/Glass

 Surface protection
 nickel plated

Mechanical data

 Dimension
 Ø 30 x 94.5 mm

 Mounting
 Nut M30x1.5

Output/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)

Range/Distance

 Range
 30...350 mm

 Rated operating distance Sn
 250 mm

 Repeat accuracy
 ± 0.15 %FS

 Resolution
 ≤ 0.025 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 $\emptyset 10 mm$. 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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