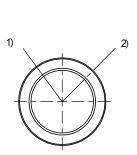
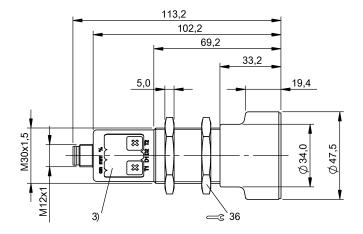
BUS M30M1-XC-35/340-S92K Order Code: BUS003T

BALLUFF





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





IND. CONT. EQ
5HP6
for use in the secondary of a class 2 source of supply





Basic features

Application

Distance measurement

Approval/Conformity

cULus LISTED CE

EAC WEEE

Operating mode

Analog measurement (output

curve)

Series

M30M1

Display/Operation

Adjuster Setting Key (2x)

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 Normally open/Normally closed

Output curve window

Electrical connection

Connection M12x1-Male, 5-pin

Polarity reversal protected yes Short-circuit protection yes

Ultrasonic Sensors

BUS M30M1-XC-35/340-S92K Order Code: BUS003T



Electrical data

Current draw max.80 mAInput functionSynchronization signalLoad resistance RL max. (Analog I)500 Ohm at UB > 20 V100 Ohm at UB < 20 V</th>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 120 kHz

Environmental conditions

Ambient temperature -25...70 °C
Protection degree IP67
Storage temperature -40...85 °C

Functional safety

Material

 Housing material
 Brass PBT, TPU

 Material sensing surface
 PU foam/Epoxy resin/Glass

 Surface protection
 nickel plated

Mechanical data

 Dimension
 Ø 47.5 x 113.2 mm

 Mounting
 Nut M30x1.5

Output/Interface

Analog output Analog, voltage/Analog, current 0...10 V/4...20 mA

Output characteristic linear rising/falling

Range/Distance

 Range
 350...5000 mm

 Rated operating distance Sn
 3400 mm

 Repeat accuracy
 ± 0.15 %FS

 Resolution
 ≤ 0.180 mm

Remarks

MTTF (40 °C)

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.

1483 a

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

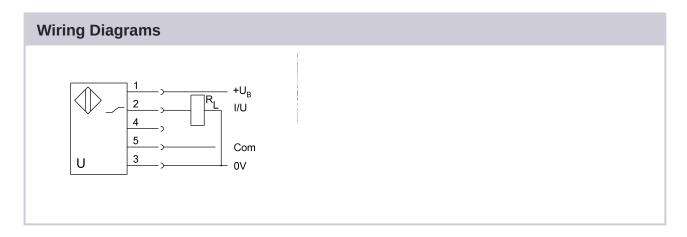
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

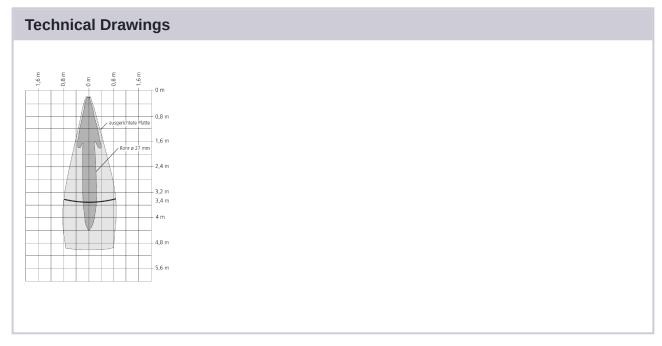
Connector Drawings

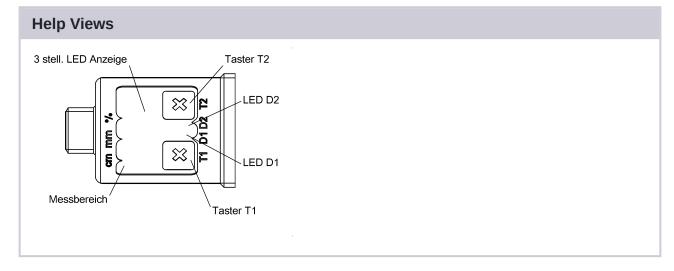


BUS M30M1-XC-35/340-S92K **Order Code: BUS003T**









Subject to change without notice: 223099