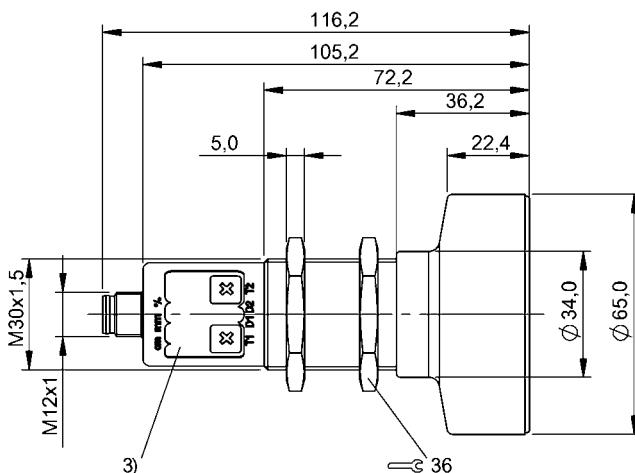
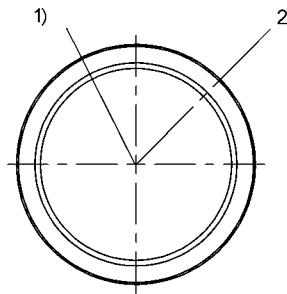


Ultrasonic Sensors

BUS M30M1-PWX-60/600-S92K

Order Code: BUS003Z

BALLUFF

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



Basic features

Application Object detection

Approval/Conformity cULus

CE

WEEE

UKCA

Operating mode Retro-reflector
Reflectionlight scanner (switching point)
Refl.light scanner (window)

Series M30M1

Display/Operation

Adjuster Key (2x)

Display Distance value - segment display

Output function- LED yellow

LED green: Power

Sensor settings - segment display

Setting Multiplex speed

Synchronization on/off

Synchronous/Multiplex mode

Segment displ. bright/dark/off

Filter strength (10 levels)

Response delay 0 to 20 s

Foreground suppression range

Multiplex sensor address

Sensor calibration

Temperature comp. on/off

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

Electrical connection

Connection M12x1-Male, 5-pin

Polarity reversal protected yes

Short-circuit protection yes

Ultrasonic Sensors
BUS M30M1-PWX-60/600-S92K
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Electrical data

Current draw max.	80 mA
Hysteresis H max.	100 mm
Input function	Synchronization signal
Operating voltage Ub	9...30 VDC
Output current max.	200 mA
Rated operating voltage Ue DC	24 V
Switching frequency	3 Hz
Synchronization	internal, max. 10 sensors
Ultrasonic Frequency	80 kHz

Environmental conditions

Ambient temperature	-25...70 °C
IP rating	IP67
Storage temperature	-40...85 °C

Functional safety

MTTF (40 °C)	1483 a
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Interface

Switching output	2x PNP normally open/normally closed (NO/NC)
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Material

Housing material	Brass, nickel-plated PBT, TPU
Material sensing surface	PU foam/Epoxy resin/Glass
Surface protection	nickel-plated

Mechanical data

Dimension	Ø 65 x 116.2 mm
Mounting part	Nut M30x1.5

Range/Distance

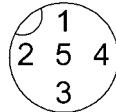
Measuring range	600...8000 mm
Rated operating distance Sn	6000 mm
Repeat accuracy	± 0.15 %FS
Resolution	≤ 0.180 mm

Remarks

The sensor is functional again after the overload has been eliminated.
Reference object for Sn: tube ø27mm. 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.

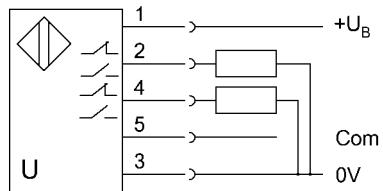
Connector Drawings



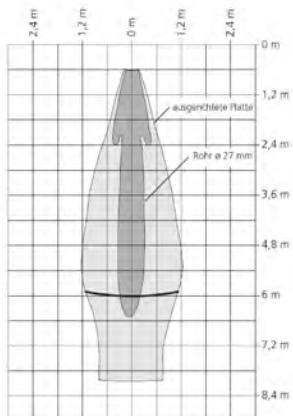
Ultrasonic Sensors
BUS M30M1-PWX-60/600-S92K
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Wiring Diagrams



Technical Drawings



Help Views

