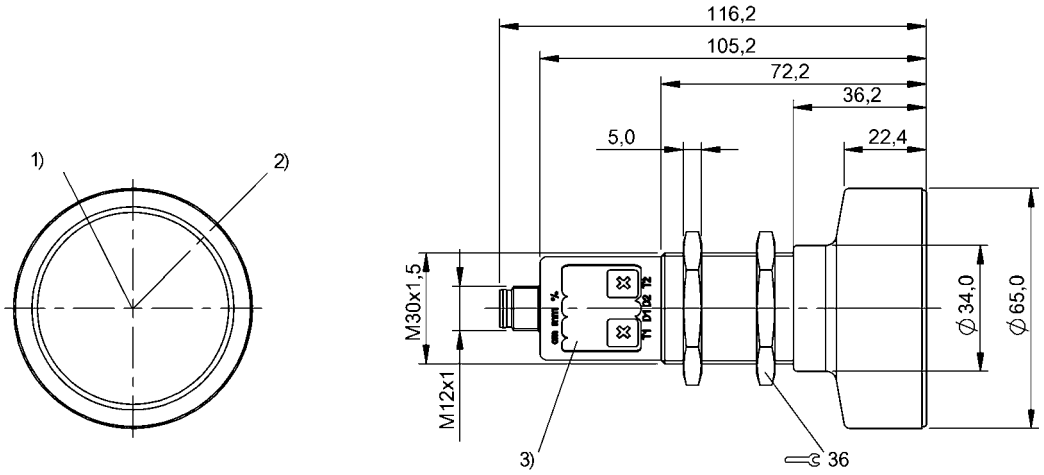
AbN
automation

Ultrasonic Sensors

BUS M30M1-XC-60/600-S92K
Order Code: BUS0041



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

Basic features

Application	Distance measurement
Approval/Conformity	cULus CE WEEE UKCA
Operating mode	Analog measurement (output curve)
Series	M30M1

Display/Operation

Adjuster	Key (2x)
Display	Distance value - segment display Object not in range - LED red Object in range - LED green Sensor settings - segment display
Setting	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

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Electrical connection

Connection	M12x1-Male, 5-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Current draw max.	80 mA
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	9...30 VDC
Rated operating voltage Ue DC	24 V
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

Interface

Analog output	Analog, voltage/Analog, current 0…10 V/4…20 mA
Output characteristic	linear rising/falling

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

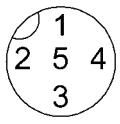
Measuring range	600...8000 mm
Rated operating distance Sn	6000 mm
Repeat accuracy	± 0.15 %FS
Resolution	≤ 0.180 mm

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



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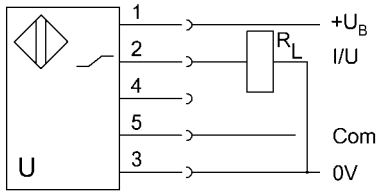
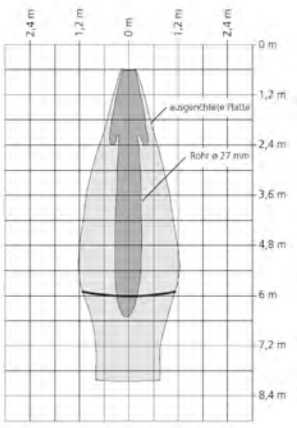
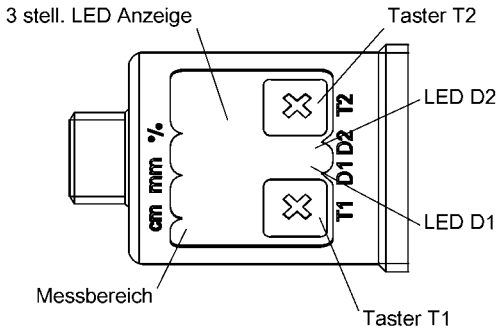
Wiring Diagrams



Technical Drawings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