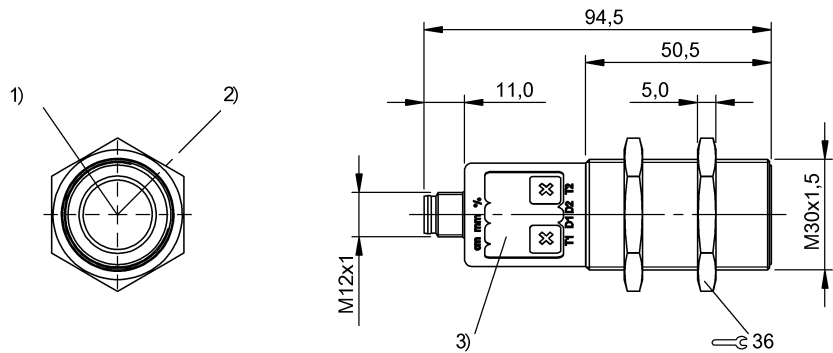




1) Ultrasonic transducer axis, 2) Exit direction 90° connector, 3) Display and control panel



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	Key (2x)
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

Electrical connection

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

Ultrasonic Sensors
BUS M30M1-XC-20/130-S92K
Order Code: BUS003F

BALLUFF

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	200 kHz

Environmental conditions

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

Functional safety

MTTF (40 °C)	1483 a
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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

Range/Distance

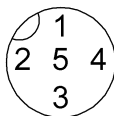
Range	200...2000 mm
Rated operating distance Sn	1300 mm
Repeat accuracy	± 0.15 %FS
Resolution	≤ 0.180 mm

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



3 stell. LED Anzeige

Taster T2

LED D2

LED D1

Taster T1

Messbereich

cm mm %