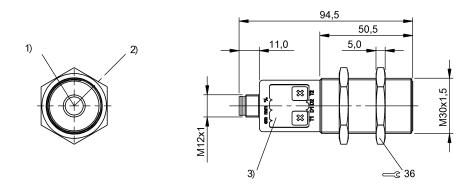
Ultrasonic Sensors BUS M30M1-PPC-07/035-S92K Order Code: BUS005M





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



Basic features

Application Distance measurement Adjuster Object detection Display Approval/Conformity CULus CE WEEE UKCA VKCA Operating mode Refl.light scanner (window) Setting Reflectionlight scanner (switching point) Retro-reflector Analog measurement (output curve) Curve)

M30M1

UK

Series

Display/Operation

	Adjuster	Key (2x)
	Display	Distance value - segment display
		Output function- LED yellow
		Object not in range - LED red
		Object in range - LED green
		Sensor settings - segment display
	Setting	Response delay 0 to 20 s
ning	-	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

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BALLUFF

Electrical connection		Functional safety			
Connection Polarity reversal protected Short-circuit protection	M12x1-Male, 5-pin yes	MTTF (40 °C)	1483 a		
Short-circuit protection	yes	Interface			
Electrical data		Analog output	Analog, voltage/Analog, current 010 V/420 mA		
Current draw max.	80 mA	Output characteristic	linear rising/falling		
Hysteresis H max.	5 mm	Switching output	PNP normally open/normally		
Input function	Synchronization signal		closed (NO/NC)		
Load resistance RL max. (Analog I)	500 Ohm at UB > 20 V 100 Ohm at UB < 20 V	Material			
Load resistance RL min. (Analog V)	100 kOhm at UB > 15 V	Housing material	Brass, nickel-plated		
Operating voltage Ub	930 VDC	Housing matchar	PBT, TPU		
Output current max.	200 mA	Material sensing surface	PU foam/Epoxy resin/Glass		
Rated operating voltage Ue DC	24 V	Surface protection	nickel-plated		
Switching frequency	12 Hz				
Synchronization	internal, max. 10 sensors	Mechanical data			
Ultrasonic Frequency	400 kHz	Dimension	Ø 30 x 94.5 mm		
Environmental conditions		Mounting part	Nut M30x1.5		
Ambient temperature	-2570 °C	Range/Distance			
IP rating	rating IP67		•		
Storage temperature	-4085 °C	Measuring range	65600 mm		
		Rated operating distance Sn	350 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 ø27mm. 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

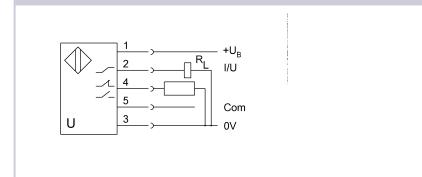


Internet

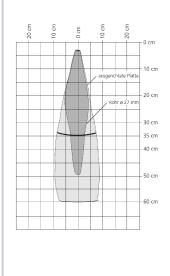
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Wiring Diagrams (Schematic)



Technical Drawings



Help Views

