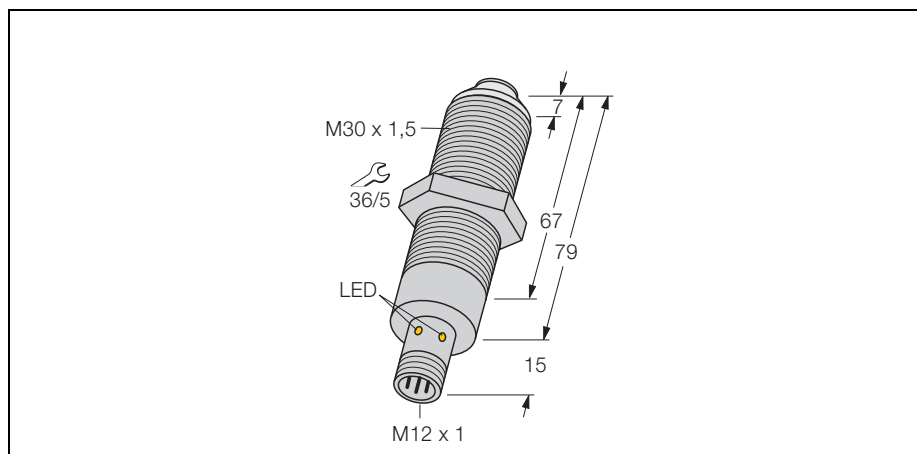


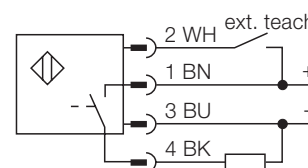
non-invasive filling level control sensor levelprox LPRE-M30-AP6X2-H1141



Type	LPRE-M30-AP6X2-H1141
Ident-No.	1606203
Container	1... 15 mm wall thickness
Material	Steel, Stainless steel, Glass
Min. container diameter	100 mm
Max. container diameter	2000 mm (echo mode) no limit (reverberation mode)
Min. absolute repeat accuracy	≥ ± 5 mm
Rated operational voltage (DC) U_B	15... 30 VDC
Function of switching element	normally open
No-load current I_0	≤ 60 mA
Rated operational current (DC) I_e	≤ 200 mA
Overload trip point	> 270 mA
Max. voltage drop at I_e	≤ 2,5 V
Switching frequency	≤ 1 Hz
Time delay before availability	≤ 2 s
Short-circuit protection	yes
Reverse polarity protection	complete
Wire breakage protection	yes
Housing style	threaded barrel; M30
Housing material	metal, CuZn, chrome-plated
Wiring	connector, M12 x 1
Operating temperature	-25 ... + 70 °C
Degree of protection	IP67
Supply voltage indication	LED green
Switching status indication	LED yellow
Alarm indication	LED flashing

- detection of liquids through the wall of a container
- suited for a large variety of container materials such as metal and glass (plastic and other materials on request)
- no medium contact, thus opening of container not necessary
- Simple mounting via welding adapter (also suited for retaining straps)
- automatic teach-in of ambient conditions and selection of the operation mode, i.e. reverberation or echo mode, by connecting the teach line to '1+' or via the teach adapter VB2-SP1 (accessory)

Wiring diagram

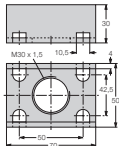



Function principles

Non-invasive ultrasonic sensors detect liquids through the metal wall of a container or tank by means of high frequency ultrasonic pulses. In the reverberation mode, the reflection of the interior container wall adjacent to the sensor are evaluated. Contamination of or air bubbles in the medium hardly effect operation, whereas residues on the container inside will lead to unwanted switching. In the echo mode, the sound is evaluated that it reflected by the opposing interior wall. Residues on the container inside will not cause any problems; but if the container contains built-in components such as stirring devices, or if the medium is contaminated or contains air bubbles, this operation mode may not be used.

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Accessories

Typ	Ident-No.	Description	Dimension drawing
LP-MZ-M30-SB	6900377	combined weld and retention strap mounting adapter. retention straps have to be ordered separately.	 
VB2-SP1	6999084	Teach adapter for LPRE-M30-AP6X2-H1141	