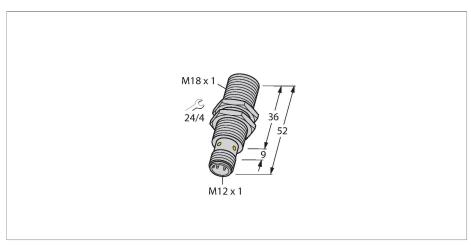
BI8U-EM18WD-VP6X-H1141 Inductive Sensor – For the Food Industry



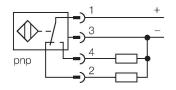
Technical data

BI8U-EM18WD-VP6X-H1141		
1635002		
8 mm		
Flush		
≤ (0.81 × Sn) mm		
≤ 2 % of full scale		
≤ ±10 %		
≤ ± 20 %, ≤ -25 °C , ≥ +70 °C		
315 %		
1030 VDC		
≤ 10 % U _{ss}		
≤ 200 mA		
25 mA		
≤ 0.1 mA		
≤ 0.5 kV		
yes / Cyclic		
≤ 1.8 V		
yes / Complete		
4-wire, Complementary contact, PNP		
300 mT		
300 mT _{ss}		
1.5 kHz		

Features

- ■Threaded barrel, M18 x 1
- Stainless steel, 1.4404
- Front cap made of liquid crystal polymer
- Factor 1 for all metals
- Resistant to magnetic fields
- ■For temperatures of -40 °C...+100 °C
- High protection class IP69K for harsh environments
- Special double-lip seal
- Protection against all common acidic and alkaline cleaning agents
- Laser engraved label, permanently legible
- ■DC 4-wire, 10...30 VDC
- Changeover contact, PNP output
- ■M12 x 1 male connector

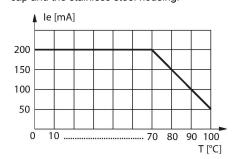
Wiring diagram





Functional principle

The inductive sensors for the food industry are absolutely tight and resistant to cleaning agents and disinfectants. The requirements of the protection classes IP68 and IP69K are well exceeded by our uprox®+ sensors. The sensors are entirely protected by the LCP front cap and the stainless steel housing.

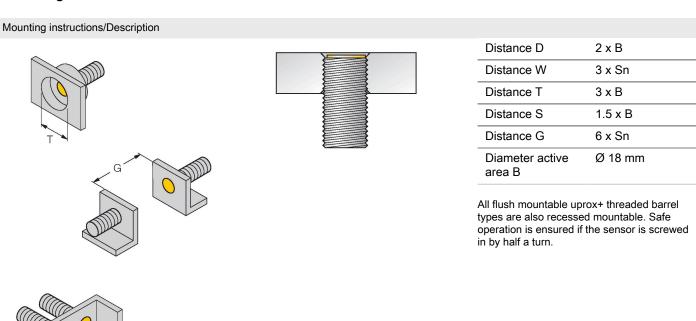




Technical data

Mechanical data		
Design	Threaded barrel, M18 x 1	
Dimensions	52 mm	
Housing material	Stainless steel, 1.4404 (AISI 316L)	
Active area material	Plastic, LCP	
Connector housing	plastic, PP	
Admissible pressure on front cap	≤ 15 bar	
Max. tightening torque of housing nut	25 Nm	
Electrical connection	Connector, M12 × 1	
Environmental conditions		
Ambient temperature	-40+100 °C	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30 g (11 ms)	
Protection class	IP68 IP69K	
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C	
Switching state	LED, Yellow	

Mounting instructions



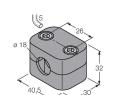


Accessories

MW-18 19,7 19,1 19,1 50,8

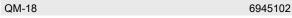
6945004

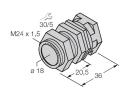
Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)



BSS-18 6901320

Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene





Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M24 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.



PN-M18

Protective nut for M18 x 1 threaded barrels; material: Stainless steel A2 1.4305 (AISI 303)

6905310



Accessories

	_		
Dimension drawing	Туре	ID	
M12 x 1	RKH4.4-2/TFE	6934473	Connection cable, M12 female connector, straight, 4-pin, stainless steel coupling nut, cable length: 2 m, jacket material: PVC, gray; temperature range: -25+80 °C
M12x1 1/2 14	RKH4.4-2/TFG	6933086	Connection cable, M12 female connector, straight, 4-pin, stainless steel coupling nut, cable length: 2 m, jacket material: TPE, gray; temperature range: -40+105 °C