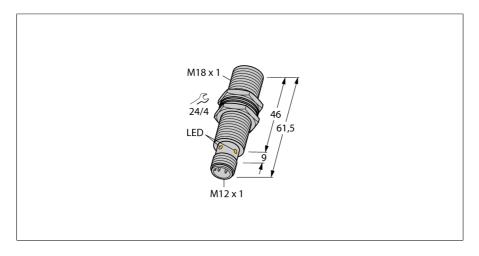


Inductive Sensor For the Food Industry BI8U-EM18MWD-VP44X-H1141

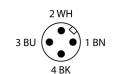


Туре	BI8U-EM18MWD-VP44X-H1141	
ID	1634897	
Remark to product	Product discontinued.	
	Please use the alternative product 100000635 with	
	an operating voltage of 1030 VDC.	
General data		
Rated switching distance Sn	8 mm	
Mounting conditions	Flush	
Secured operating distance	≤ (0.81 × Sn) mm	
Repeat accuracy	≤ 2 % of full scale	
Temperature drift	≤ ±10 %	
Hysteresis	315 %	
Electrical data		
Operating voltage	1055 VDC	
Residual ripple	\leq 10 % U_{ss}	
DC rated operational current	≤ 200 mA	
Residual current	≤ 0.1 mA	
Isolation test voltage	≤ 0.5 kV	
Short-circuit protection	yes/ Cyclic	
Voltage drop at I _e	≤ 1.8 V	
Wire breakage/Reverse polarity protection	yes/ Complete	
Output function	4-wire, Complementary contact, PNP	
DC field stability	300 mT	
AC field stability	300 mT _{ss}	
Insulation class		
Switching frequency	1.5 kHz	

- 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
- Extended temperature range
- 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
- Suitable for applications in the food industry
- DC 4-wire, 10...55 VDC
- Changeover contact, PNP output
- M12 x 1 male connector

Wiring Diagram





Functional principle

uprox®+ sensors from TURCK are the perfect solution for dairies, breweries, industrial bakeries, frozen food, packaging and filling applications. They are absolutely tight and resistant to cleaning agents and disinfectants and well exceed the rerquirements of the protection classes IP68 and IP69K thanks to the LCP front cap and the stainless steel housing.



Mechanical data		
Design	Threaded barrel, M18 x 1	
Dimensions	61.5 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	-30+85 °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	



Accessories

Type code	Ident no.		Dimension drawing
MW-18	6945004	Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)	15,5 15,9 19,1 10,8 19,1 10,8 14,0
BSS-18	6901320	Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene	o 18 26 32 40.5 30
QM-18	6945102	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.	M24 x 1,5 0 18 20,5 36
PN-M18	6905310	Protective nut for M18 x 1 threaded barrels; material: Stainless steel A2 1.4305 (AISI 303)	55 24 M18 x 1 o 26