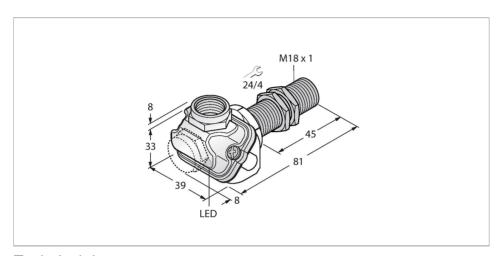


BI8U-EM18WDTC-AP6X Inductive Sensor - For the Food Industry



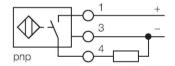
Technical data

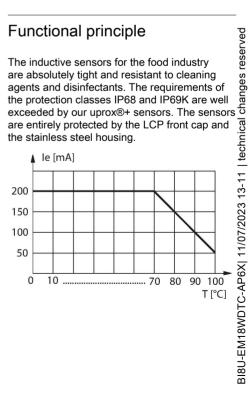
Туре	BI8U-EM18WDTC-AP6X
ID	1634762
General data	
Rated switching distance	8 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ±10 %
	≤ ± 20 %, ≤ -25 °C , ≥ +70 °C
Hysteresis	315 %
Electrical data	
Operating voltage	1030 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 mA
No-load current	25 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	3-wire, NO contact, PNP
DC field stability	300 mT
AC field stability	300 mT _{ss}
Insulation class	

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
- Suitable for applications in the food industry
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- ■Terminal chamber

Wiring diagram





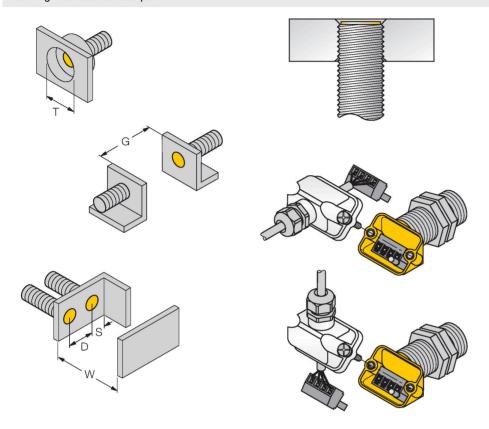


Technical data

Mechanical data Design Threaded barrel, M18 x 1 Dimensions 81 mm Housing material Stainless steel, 1.4404 (AISI 316L) Terminal chamber cover material plastic, Ultem Terminal chamber housing material plastic, LCP-GF30 Active area material Plastic, LCP Admissible pressure on front cap ≤ 15 bar Max. tightening torque of housing nut 25 Nm Electrical connection Terminal chamber, Removable cage terminals suited for M16 x 1.5 cable glands	
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Electrical connection Terminal chamber, Removable cage terminals suited for M16 x 1.5 cable glands	
terminals suited for M16 x 1.5 cable glands	
	clamp
01 : 139	
Clamping ability ≤ 1.5 mm ²	
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) °C	
Switching state LED, Yellow	40

Mounting instructions

Mounting instructions/Description



Distance D	36 mm
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Diameter active area B	Ø 18 mm

All flush mountable uprox®+ threaded barrel types are also recessed mountable. Safe operation is ensured if the sensor is screwed in by half a turn.

The innovative terminal chamber concept enables easy and simple connection of the sensor. Straight as well as angled cable outlets are available and the removable terminal strip guarantees easy wiring.

Accessories

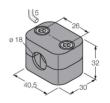
MW-18

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



QM-18 6945102

M24 x 1,5

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 6905310

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

