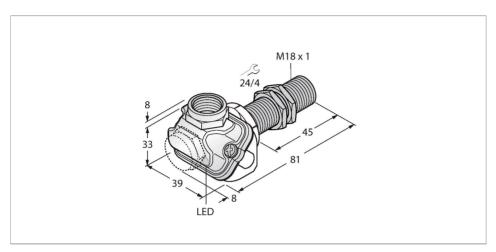


# BI8U-EM18WDTC-AP6X Inductive Sensor - For the Food Industry



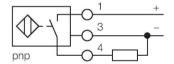
#### Technical data

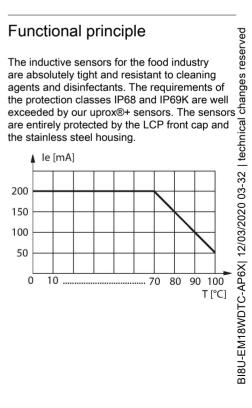
Turno	BI8U-EM18WDTC-AP6X
Type	
Ident. no.	1634762
Rated switching distance	8 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
	≤ ± 20 %, ≤ -25 °C , ≥ +70 °C
Hysteresis	315 %
Ambient temperature	-40+100 °C
Operating voltage	1030 VDC
Residual ripple	≤ 10 % U <sub>ss</sub>
DC rated operational current	≤ 200 mA
No-load current	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes / Cyclic
Voltage drop at I <sub>e</sub>	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, PNP
Insulation class	
Switching frequency	1.5 kHz
Design	Threaded barrel, M18 × 1
Dimensions	81 mm

### **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





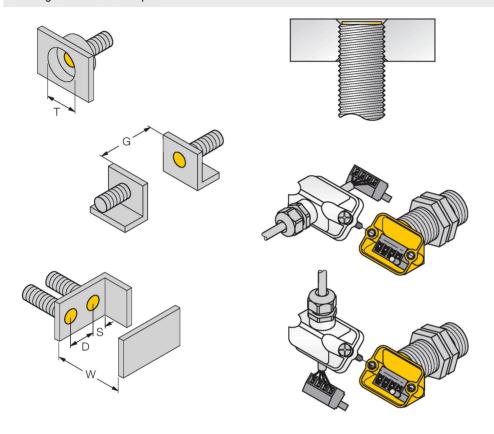


# Technical data

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 clamp terminals
	suited for M16 x 1.5 cable glands
Clamping ability	≤ 1.5 mm²
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

#### 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.

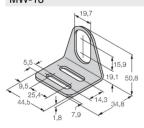
The innovative terminal chamber concept enables easy and simple connection of the sensor. Straight as well as angled cable outlets are available and the removable terminal strip guarantees easy wiring.

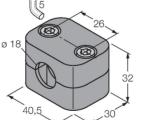
### Accessories

# 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

### PN-M18

#### 6905310

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

