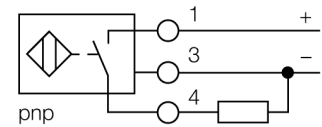


- Threaded barrel, M18 x 1
- Stainless steel, 1.4404
- Front cap made of liquid crystal polymer Vectra
- Factor 1 for all metals
- Magnetic field immune
- For temperatures of -40 °C to +100 °C
- High protection class IP69K, for harsh environments
- Special double-lip seal
- Protection against all common acid and alkaline cleaning agents
- For the food industry
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Terminal chamber

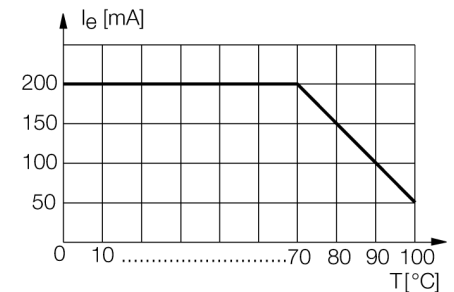
Type code	BI8U-EM18WDTC-AP6X
Ident no.	1634762
Rated operating distance Sn	8 mm
Mounting condition	flush
Assured sensing range	≤ (0,81 x Sn) mm
Repeatability	≤ 2 % of full scale
Temperaturdrift	10 %
	≤ ± 20 %, ≤ -25 °C, ≥ +70 °C
Hysteresis	3...15 %
Ambient temperature	-40...+100 °C
Operating voltage	10...30VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 mA
No-load current I ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I ₀	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Protection class	☐
Switching frequency	1.5 kHz
Design	threaded barrel, M18 x 1
Dimensions	81 mm
Housing material	Metal, V4A (1.4404)
Terminal chamber cover material	plastic, Ultem
Terminal chamber housing material	plastic, LCP-GF30
Material active face	Plastic, LCP
Admissible pressure on front cap	≤ 15 bar
Max. tightening torque housing nut	25 Nm
Connection	Terminal chamber, Removable cage clamp terminals suited for M16 x 1.5 cable glands
Clamping ability	≤ 1.5 mm ²
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	● yellow

Wiring diagram



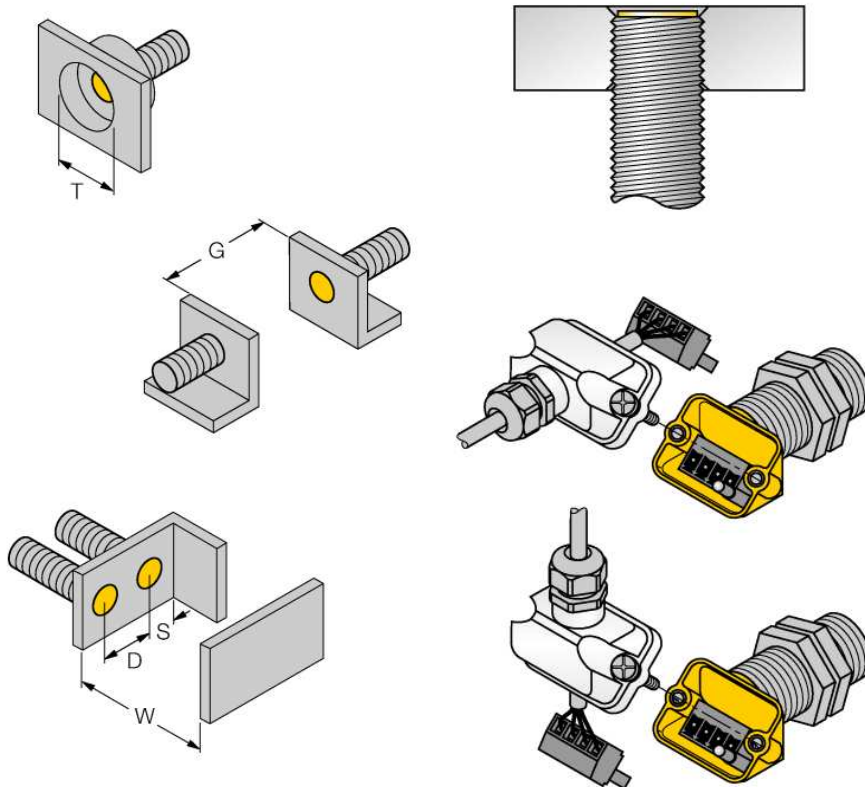
Functional principle

Die induktiven Sensoren für die Lebensmittelindustrie sind absolut dicht und resistent gegen Reinigungs- und Desinfektionsmittel. Die Anforderungen der Schutzart IP68 und IP69K werden durch die uprox+ Sensoren weit übertraffen. Sie sind sicher geschützt und robust ausgeführt mit LCP-Frontkappe und Edelstahlgehäuse.



Distance D	36 mm
Distance W	24 mm
Distance T	54 mm
Distance S	27 mm
Distance G	48 mm

Diameter of the active area B Ø 18 mm



Flush and recessed mounting of all uprox®+ threaded barrel sensors. 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

Type code	Ident no.	Description	Dimension drawing
M16X1,5 PVDF CABLE GLAND	1634759	Cable glands M16 x 1.5, material PVDF	
MW-18	6945004	Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304)	
BSS-18	6901320	Mounting bracket for smooth and threaded barrel devices; material: Polypropylene	
PN-M18	6905310	Protective nut for M18 x 1 threaded barrels; material: Stainless steel A2 1.4305 (AISI 303)	