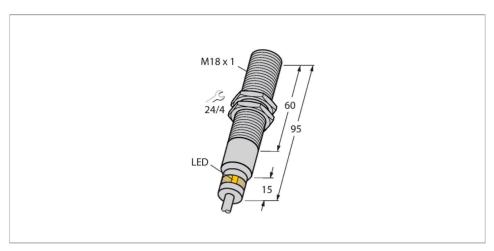


BI5-EM18D-VP6X/S120 Inductive Sensor - For Harsh Environments and Temperatures up to 120°C



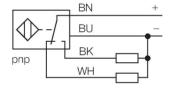
Technical data

BI5-EM18D-VP6X/S120
4614900
S120 corresponds to: Maximum ambient temperature = 120 °C
5 mm
Flush
≤ (0.81 × Sn) mm
St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
≤ 2 % of full scale
≤ ± 10 %
≤ ± 20 %, ≥ +70 °C
315 %
-25+120 °C
1030 VDC
≤ 10 % U _{ss}
≤ 200 mA
See derating curve
≤ 15 mA
≤ 0.1 mA
≤ 0.5 kV
yes / Cyclic
≤ 1.8 V
yes / Complete

Features

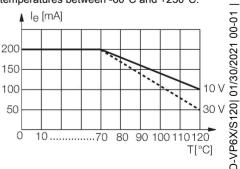
- ■Threaded barrel, M18 x 1
- Stainless steel, 1.4571
- ■Viton sealing ring
- Protection class IP68/IP69K
- ■For temperatures up to +120 °C
- ■PTFE front cap
- Climate-proof
- Resistance to cooling lubricants, cutting and grinding oils
- Suitable for applications in the food industry
- ■DC 4-wire, 10...30 VDC
- Changeover contact, PNP output
- Cable connection

Wiring diagram



Functional principle

TURCK offers leak-proof sensors for the food industry and machine engineering that are resistant to cleaning agents, cooling lubricants, cutting and grinding oils. They are made for rough environmental conditions and not only meet but even exceed the requirements of the protection classes IP68 and IP69. Special versions are available for ambient temperatures between -60°C and +250°C.





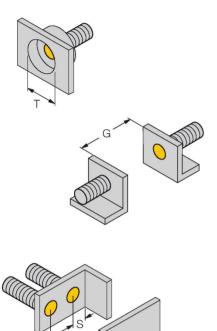
Technical data

Output function	4-wire, Complementary contact, PNP
Switching frequency	0.1 kHz
Design	Threaded barrel, M18 × 1
Dimensions	95 mm
Housing material	Stainless steel, 1.4571 (AISI 316Ti)
Active area material	Plastic, PTFE
End cap	Plastic, PTFE
Admissible pressure on front cap	≤ 10 bar
Max. tightening torque of housing nut	25 Nm
Electrical connection	Cable
Cable quality	Ø 3.7 mm, PTFE, FEP, 2 m
Core cross-section	4 x 0.25 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68 IP69K
MTTF	2615 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow



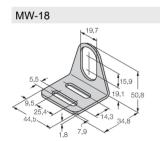
Mounting instructions

Mounting instructions/Description



Distance D	2 x B
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

Accessories



6945004 Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)