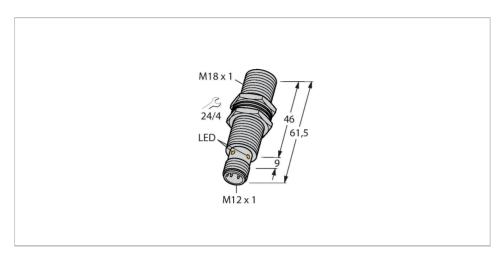


BIM-EM18M-AP4X-H1141 Magnetic Field Sensor - Magnetic-inductive Proximity Sensor



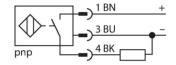
Technical data

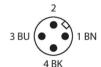
Type	BIM-EM18M-AP4X-H1141	
ID	1579933	
General data		
Rated switching distance	90 mm	
- Trated switching distance		
	In conjunction with magnet DMR31-15-5	
Repeat accuracy	≤ 0.3 % of full scale	
Temperature drift	≤ ±15 %	
Hysteresis	110 %	
Electrical data		
Operating voltage U _B	1065 VDC	
Ripple U _{ss}	≤ 10 % U _{Bmax}	
DC rated operating current I _e	≤ 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 _e	≤ 1.8 V	
Wire break/reverse polarity protection	yes/Complete	
Output function	3-wire, NO contact, PNP	
Switching frequency	1 kHz	
Mechanical data		
Design	Threaded barrel, M18 x 1	
Dimensions	61.5 mm	
Housing material	Metal, 1.4301 (AISI 304)	

Features

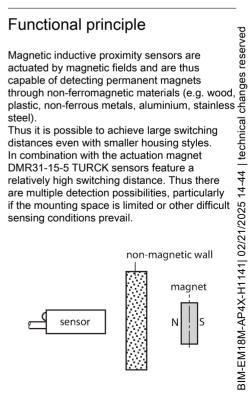
- ■Threaded barrel, M18 x 1
- Stainless steel, 1.4301
- ■Rated operating distance 90 mm with DMR31-15-5 magnet
- ■DC 3-wire, 10...65 VDC
- ■NO contact, PNP output
- Male connector, M12 x 1

Wiring diagram





Functional principle





Technical data

Active area material	Plastic, PBT	
Max. tightening torque of housing nut	25 Nm	
Electrical connection	Connector, M12 × 1	
Environmental conditions		
Ambient temperature	-25+70 °C	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30 g (11 ms)	
Protection class	IP67	
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C	
Switching state	LED, Yellow	

Mounting instructions

Mounting instructions/Description		
	Diameter active area B	Ø 18 mm

Accessories

