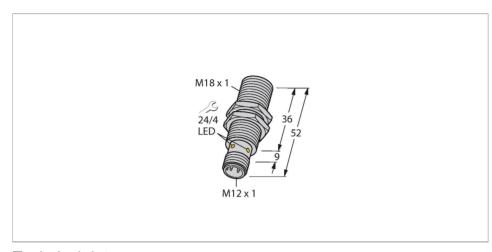


BI7C-EM18-VP6X-H1141 Inductive Sensor – For Detecting Carbon Materials



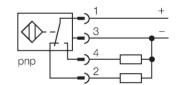
Technical data

Туре	BI7C-EM18-VP6X-H1141
ID no.	100015715
Rated switching distance	7 mm
	The rated operating distance is based on a standard target made of steel. The operating distance may vary depending on the composition of the carbon material.
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
Hysteresis	315 %
Ambient temperature	0+100 °C
Operating voltage	1030 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 100 mA
No-load current	≤ 20 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	4-wire, Complementary contact, PNP
	1.5 kHz

Features

- ■Threaded barrel, M18 x 1
- Stainless steel, 1.4301
- Carbon detection
- Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- ■DC 4-wire, 10...30 VDC
- Changeover contact, PNP output
- ■M12 x 1 male connector

Wiring diagram





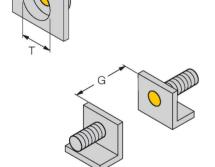


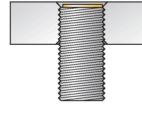
Technical data

Design	Threaded barrel, M18 × 1
Dimensions	52 mm
Housing material	Stainless steel, 1.4301 (AISI 304)
Active area material	Plastic, LCP
Max. tightening torque of housing nut	25 Nm
Electrical connection	Connector, M12 × 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow

Mounting instructions

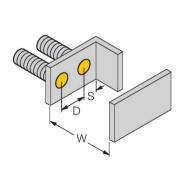
Mounting instructions/Description





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.





Accessories

MW-18

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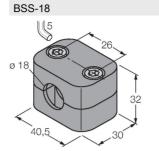
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Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)



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Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene