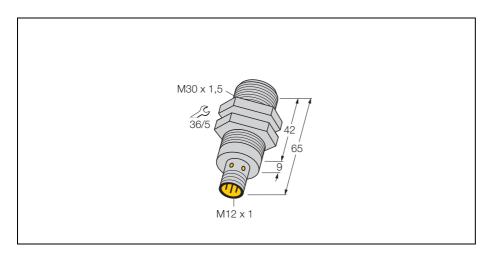
inductive sensor with stainless steel front cap Bi10-EM30F-AN6X-H1141

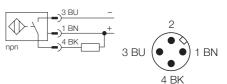




•	threaded	barrel,	M30x
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- stainless steel, 1.4404
- 3-wire DC, 10...30 VDC
- normally open npn output
- connector, M12 x 1

Wiring diagram



Type	Bi10-EM30F-AN6X-H1141 4614576	
Ident-No.		
Rated operating distance Sn	10 mm	
Mounting condition	flush	
Assured switching distance	\leq (0,81 x Sn) mm	
Correction factors	$St37 = 1$, $V2A \sim 0.7$, $Ms \sim 0.4$, $AI \sim 0.3$	
Temperature drift	≤ ± 10 %	
Hysteresis	3 15 %	
Repeatability	≤ 2 %	
Ambient temperature	-25+ 80 °C	
Operating voltage	10 30 VDC	
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 dip at I _e	≤ 1.8 V	
Wire breakage / Reverse polarity protection	yes / complete	
Output function	3-wire, normally open, npn	
Switching frequency	≤0.18 kHz	
Housing	threaded barrel, M30 x 1.5	
Dimensions	63 x 30 mm	
Housing material	metal, AISI 316L	
Material active area	metal, A4 1.4404 (AISI 316L)	
Admissible pressure on front cap	≤ 10 bar	
Tightening torque of housing nut	75 Nm	
Connection	Connector, M12 x 1	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30g (11 ms)	

IP68 / IP69K

LED yellow

Functional principle

Inductive sensors are designed for wear-free and non-contact detection of metal objects. For this purpose they use a high-frequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

Degree of protection

Display switch state