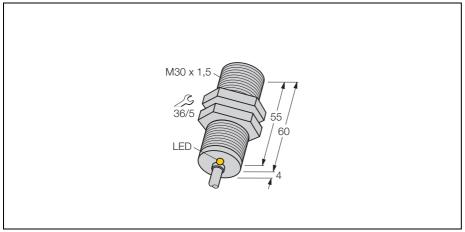
inductive sensor

Bi10U-EM30-AP6X



Туре	Bi10U-EM30-AP6X	
Ident-No.	1636300	
Rated operating distance Sn	10 mm	
Mounting condition	flush	
Assured switching distance	\leq (0,81 x Sn) mm	
Repeatability	≤ 2 %	
Temperature drift	≤ ± 10 %	
	\leq ± 15 %, \leq -25 °C v \geq +70 °C	
Hysteresis	3 15 %	
Ambient temperature	-30+ 85 °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 l _e	≤ 1.8 V	
Wire breakage / Reverse polarity protection	yes / complete	
Output function	3-wire, normally open, pnp	
Insulation class		
Switching frequency	≤2 kHz	
Housing	threaded barrel, M30 x 1.5	
Dimensions	64 mm	
Housing material	metal, A2 1.4301 (AISI 304)	
Material active area	plastic, PBT	
End cap	plastic, EPTR	
Tightening torque of housing nut	75 Nm	

cable

IP68

3 x 0.34 mm²

55 Hz (1 mm)

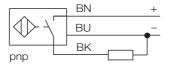
30g (11 ms)

LED yellow

Ø 5.2, LifYY, PVC, 2 m

- threaded barrel, M30 x 1.5
- stainless steel, 1.4301
- factor 1 for all metals
- degree of protection IP68
- magnetic field immune
- extended temperature range
- high switching frequency
- 3-wire DC, 10...30 VDC
- normally open, pnp output
- cable connection

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and non-contact detection of metal objects. Due to a ferrite-less 3-coil system, uprox factor 1 sensors have distinct advantages. They detect all metals at the same switching distance, are magnetic field immune and feature large switching distances.

Connection

Cable quality

Cable cross section:

Vibration resistance

Degree of protection

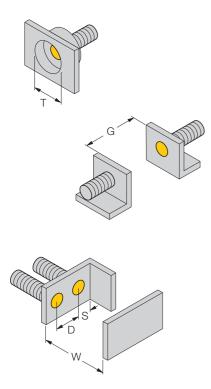
Display switch state

Shock resistance

inductive sensor

Bi10U-EM30-AP6X

Mounting instructions	minimum distances	
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 of the active area B	Ø 30 mm	



inductive sensor

Bi10U-EM30-AP6X

Accessories

Type code	ldent- No.	Short text	Dimension drawing
MW-30	6945005	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	5.5 112 20 03.5 27 2 20 10.5
BSS-30	6901319	fixing clamp; material: polypropylene	a 22.