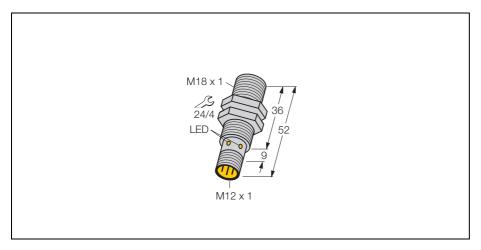


Inductive sensor Bi8U-EM18-AN6X-H1141

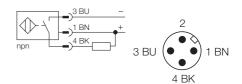




Turno	Bi8U-EM18-AN6X-H1141	
Type Ident-No.		
ident-No.	1644738	
Rated operating distance Sn	8 mm	
Mounting condition	flush	
Assured sensing range	≤ (0,81 x Sn) mm	
Repeatability	≤ 2 %	
Temperature drift	≤ ± 10 %	
	\leq ± 15 %, \leq -25 °C v \geq +70 °C	
Hysteresis	3 15 %	
Ambient temperature	-30+ 85 °C	
Operating voltage	10 30VDC	
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 drop at I _e	≤ 1.8V	
Wire breakage / Reverse polarity protection	yes / complete	
Output function	3-wire, normally open, npn	
Switching frequency	≤1.5 kHz	
Housing	threaded barrel. M18 x 1	
Dimensions	52 mm	
Housing material	metal, AISI 304	
Material active face	plastic, LCP-GF30	
Tightening torque of housing nut	25 Nm	
Connection	Connectors, M12 x 1	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30g (11 ms)	
Degree of protection	IP68	
Display switch state	LED yellow	

- Threaded barrel, M18 x 1
- stainless steel, 1.4301
- factor 1 for all metals
- degree of protection IP68
- magnetic field immune
- high switching distance
- recessed mounting possible
- 3-wire DC, 10...30 VDC
- normally open npn output
- connector, M12 x 1

Wiring diagram



Functional principle

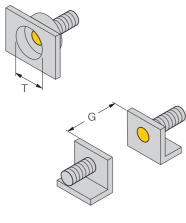
Inductive sensors are designed for wear-free and non-contact detection of metal objects. uprox+ sensors have considerable advantages due to their patented multi-coil system. They excel in highest switching distances, maximum flexibility and operational reliability as well as efficient standardisation.

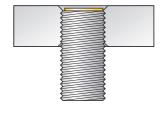


Inductive sensor Bi8U-EM18-AN6X-H1141

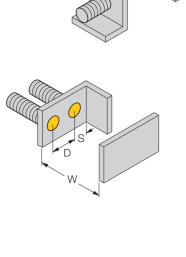


Mounting instructions	minimum distances
Distance D	36 mm
Distance W	24 mm
Distance T	54 mm
Distance S	27 mm
Distance G	48 mm
Diameter of the active area B	Ø 18 mm





All flush mountable uprox+ threaded barrel switches allow recessed mounting Safe operation is ensured if the sensor is recessed mounted by half a turn of the thread.







Accessories

Type code	Ident- No.	Short text	Dimension drawing
PN-M18	6905310	Screw cap; material: Stainless steel A2 1.4305 (AISI 303)	M18 x 1
MW-18	6945004	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	19.7 15.9 15.9 16.1 50.8
BSS-18	6901320	fixing clamp; material: polypropylene	14.5 7.9 14.3 34.8
			g 10 22 22 22 22 22 22 22 22 22 22 22 22 22