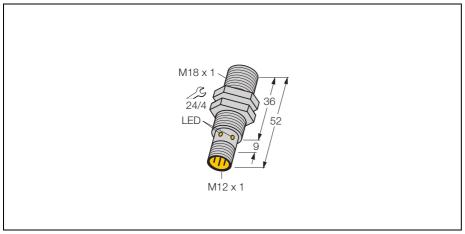
Inductive sensor with extended switching distance Bi8-M18-AN6X-H1141





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Туре	Bi8-M18-AN6X-H1141	
Ident-No.	4615100	
Rated operating distance Sn	8 mm	
Mounting condition	flush	
Assured sensing range	(0,81 x Sn) mm	
Correction factors	$St37 = 1$, $V2A \sim 0.7$, $Ms \sim 0.4$, $AI \sim 0.3$	
Repeatability	2 %	
Temperature drift	± 10 %	
Hysteresis	3 15 %	
Ambient temperature	-25+ 70 °C	
Operating voltage	10 30VDC	
Residual ripple	10 % U _{ss}	
DC rated operational current	nal current 200 mA	
No-load current I ₀	15 mA	
Residual current	0.1 mA	
Rated insulation voltage		
Short-circuit protection	yes / cyclic	
Voltage drop at I _e	1.8V	
Wire breakage / Reverse polarity protection	protection yes / complete	
Output function	3-wire, normally open, npn	
Switching frequency	0.5 kHz	
Housing	threaded barrel, M18 x 1	
Dimensions	52 mm	
Housing material	metal, CuZn, chrome-plated	
Material active face	plastic, PA12-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	IP67	
Display switch state	LED yellow	

Functional principle

Threaded barrel, M18 x 1
Chrome-plated brass
large detection range
3-wire DC, 10...30 VDC

• normally open npn output

• connector, M12 x 1

Wiring diagram

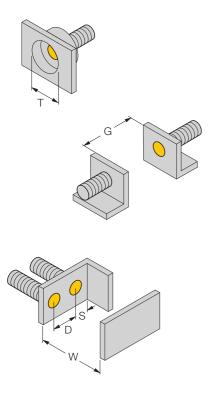
Inductive sensors are designed for wear-free and non-contact detection of metal objects. For this purpose they use a high-frequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

Fdition: • 08.11.2008





Mounting instructions	ounting 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 18 mm	



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Accessories

Type code	Ident- No.	Short text	Dimension drawing
BST-18B	6947214	fixing clamp with dead-stop; material: PA6	20 22 40 24 24 24 24
QM-18	6945102	quick-mount fixing clamp with dead-stop; material: chrome-plated brass male thread M24 x 1.5. Note: The switching distance of proximity switches can be reduced by the use of quick mounting brackets.	Mod v 10 00
MW-18	6945004	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	19.7 15.9 15.1 15.0 10.1 50.8 44.5 44.3 34.6
BSS-18	6901320	fixing clamp; material: polypropylene	1,8 7,9