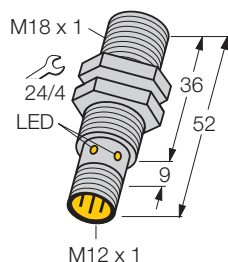


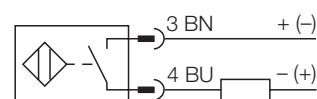
Inductive sensor

Bi7-M18-AD4X-H1141



- threaded barrel, M18 x 1
- chrome-plated brass
- 2-wire DC, 10...65 VDC
- normally open
- connector M12 x 1

Wiring diagram



Function principles

Inductive proximity switches are designed for wear-free non-contact detection of metal objects. For this 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.

Type	Bi7-M18-AD4X-H1141
Ident-No.	4414541
Rated operating distance S_n	7 mm
Mounting mode	flush
Hysteresis (switching distance)	1... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	$\leq \pm 10$ %
Operating temperature	-25 ... + 70 °C
Rated operational voltage (DC) U_B	10... 65 VDC
Max. ripple	≤ 10 % U_{pp}
Rated operational current (DC) I_e	≤ 100 mA
Max. OFF-state current	$\leq 0,6$ mA
Max. switching frequency	≤ 1 kHz
Rated insulation voltage	$\leq 0,5$ kV
Short-circuit protection	yes, cyclic
Max. voltage drop at I_e	≤ 5 V
Min. operational current I_m	≥ 3 mA
Housing style	threaded barrel; M18 x 1
Dimensions	52 mm
Housing material	metal, CuZn, chrome-plated
Active face	plastic, PA12-GF30
Max. fixing torque of coupling nut	25 Nm
Wiring	connector, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Switching status indication	LED yellow

Inductive sensor

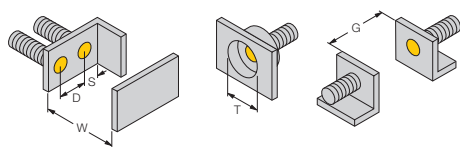
Bi7-M18-AD4X-H1141

Mounting instructions

	minimum gap
Gap D	2 x B
Gap W	3 x Sn
Gap T	3 x B
Gap S	1,5 x B
Gap G	6 x Sn

Diameter of active face B

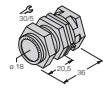
Ø 18 mm



Inductive sensor

Bi7-M18-AD4X-H1141

Accessories

Typ	Ident-No.	Description	Dimension drawing
QM-18	6945102	quick-mount fixing clamp with dead-stop; material: chrome-plated brass external thread M24 x 1,5.	
BST-18B	6947214	fixing clamp with dead-stop; material: PA6	