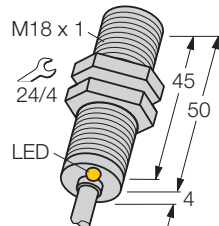


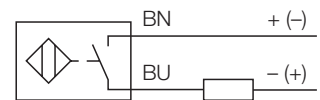
Inductive sensor

Bi7-M18-AD4X



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

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
Ident-No.	4414535
Rated operating distance S_n	7 mm
Mounting mode	flush
Hysteresis (switching distance)	1... 15 %
Min. repeat accuracy	$\leq 2 \%$
Temperature drift	$\leq \pm 10 \%$
Operating temperature	-25 ... + 70 °C
Rated operational voltage (DC) U_B	10... 65 VDC
Max. ripple	$\leq 10 \% U_{pp}$
Rated operational current (DC) I_e	$\leq 100 \text{ mA}$
Max. OFF-state current	$\leq 0,6 \text{ mA}$
Max. switching frequency	$\leq 1 \text{ kHz}$
Rated insulation voltage	$\leq 0,5 \text{ kV}$
Short-circuit protection	yes, cyclic
Max. voltage drop at I_e	$\leq 5 \text{ V}$
Min. operational current I_m	$\geq 3 \text{ mA}$
Housing style	threaded barrel; M18 x 1
Dimensions	54 mm
Housing material	metal, CuZn, chrome-plated
Active face	plastic, PA12-GF30
Max. fixing torque of coupling nut	25 Nm
Wiring	cable
Cable	$\varnothing 5,2$, LiYY, PVC, 2 m
Cable cross section	2 x 0,34 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Switching status indication	LED yellow

Inductive sensor

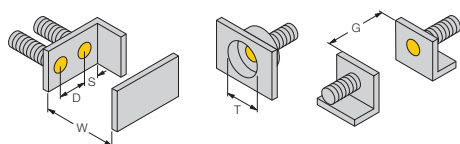
Bi7-M18-AD4X

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

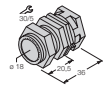
Ø 18 mm



Inductive sensor

Bi7-M18-AD4X

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	