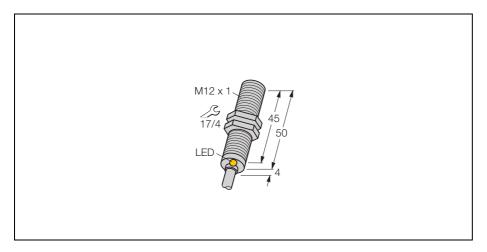
Inductive sensor Bi2-M12-AD4X





Туре	Bi2-M12-AD4X		
Ident-No.	44050		
Rated operating distance Sn	2 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	1 15 %		
Ambient temperature	-25+ 70 °C		
Operating voltage	10 65VDC		
Residual ripple	10 % U _{ss}		
DC rated operational current	100 mA		
Residual current	0.6 mA		
Rated insulation voltage	0.5 kV		
Short-circuit protection	yes / cyclic		
Voltage drop at I _e	5V		
Output function	2-wire, normally open		
Smallest operating current I _m	≥ 3 mA		
Switching frequency	1 kHz		
Housing	threaded barrel, M12 x 1		
Dimensions	54 mm		
Housing material	metal, CuZn, chrome-plated		
Material active face	plastic, PA12-GF30		
End cap	plastic, EPTR		
Tightening torque of housing nut	10 Nm		
Connection	cable		
Cable quality	Ø 5.2, LifYY, PVC, 2 m		
Cable cross section:	2 x 0.34mm ²		
Vibration resistance	55 Hz (1 mm)		
01 1 1 1	00 (44		

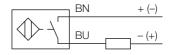
30g (11 ms)

LED yellow

IP67

- threaded barrel, M12 x 1
- Chrome-plated brass
- 2-wire DC, 10...65 VDC
- normally open
- cable connection

Wiring diagram



Functional principle

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. Conserning inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

Shock resistance

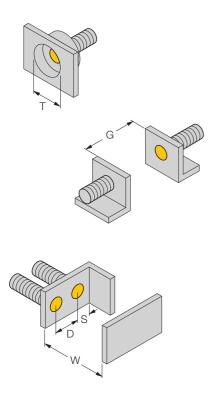
Degree of protection

Display switch state

Inductive sensor Bi2-M12-AD4X



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 12 mm	



Inductive sensor Bi2-M12-AD4X



Accessories

Type code	ldent- No.	Short text	Dimension drawing
QM-12	6945101	quick-mount fixing clamp with dead-stop; material: chrome-plated brass male thread M16 x 1. Note: The switching distance of proximity switches can be reduced by the use of quick mounting brackets.	a 12 2 2 3 A
BST-12B	6947212	fixing clamp with dead-stop; material: PA6	20 28 40 18 18 18 18
MW-12	6945003	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	9.5 19.1 14.3 34.8
BSS-12	6901321	fixing clamp; material: polypropylene	1,8 7,9