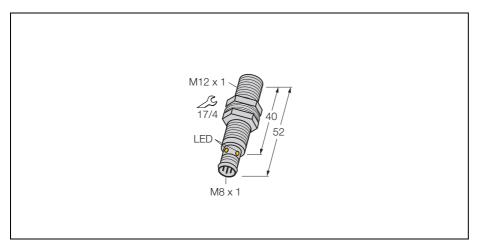


Inductive sensor Bi4U-M12-AP6X-V1131

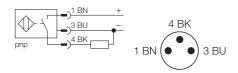




Туре	Bi4U-M12-AP6X-V1131	
Ident-No.	1634780	
Rated operating distance Sn	4 mm	
Mounting condition	flush	
Assured sensing range	≤ (0,81 x Sn) mm	
Repeatability	≤ 2 %	
Temperature drift	≤ ± 10 %	
	$\leq \pm 15 \%, \leq -25 \degree \text{C v} \geq +70 \degree \text{C}$	
Hysteresis	3 15 %	
Ambient temperature	-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, pnp	
Insulation class		
Switching frequency	≤2 kHz	
Housing	threaded barrel, M12 x 1	
Dimensions	52 mm	
Housing material	metal, CuZn, chrome-plated	
Material active face	plastic, LCP-GF30	
Tightening torque of housing nut	10 Nm	
Connection	Connectors, M8 x 1	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30g (11 ms)	
Degree of protection	IP68	
Display switch state	LED yellow	

- threaded barrel, M12 x 1
- Chrome-plated brass
- 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, pnp output
- connector, M8 x 1

Wiring diagram



Functional principle

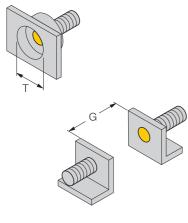
Inductive sensors are designed for wear-free and non-contact detection of metal objects. uprox+ sensors have considerable advantages due to their patented multi-coil system. They excel in highest switching distances, maximum flexibility and operational reliability as well as efficient standardisation.

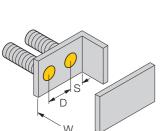


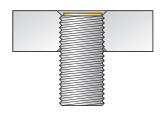
Inductive sensor Bi4U-M12-AP6X-V1131



Mounting instructions	minimum distances	
Distance D	24 mm	
Distance W	12 mm	
Distance T	36 mm	
Distance S	18 mm	
Distance G	24 mm	
Diameter of the active area B	Ø 12 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
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.	
BST-12B	6947212	fixing clamp with dead-stop; material: PA6	M5 28 40 18
MW-12	6945003	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	9.5. 9.5. 12.7 13.9 38.1 13.9 38.1
BSS-12	6901321	fixing clamp; material: polypropylene	1,8 7,9
PN-M12	6905309	Screw cap; material: Stainless steel A2 1.4305 (AISI 303)	#M72 x 1