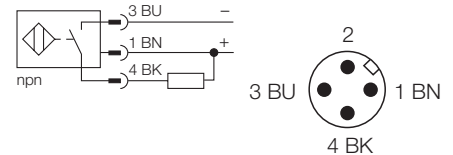


- threaded barrel, M12x1
- teflon-coated brass
- Front cap made of Duroplast, especially temperature and impact resistant
- factor 1 for all metals
- magnetic field immune
- extended temperature range
- high switching frequency
- 3-wire DC, 10...30 VDC
- normally open npn output
- connector, M12 x 1

Type	Bi3U-MT12H-AN6X-H1141
Ident-No.	1634213
Rated operating distance Sn	3 mm
Mounting condition	flush
Assured sensing range	(0,81 x Sn) mm
Repeatability	2 %
Temperature drift	± 10 %
	± 15 %, -25 °C v ≥ +70 °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, npn
Insulation class	
Switching frequency	0.25 kHz
Housing	threaded barrel, M12 x 1
Dimensions	52 mm
Housing material	metal, CuZn, teflonised
Material active face	plastic, Duroplast, teflonised
Tightening torque of housing nut	7 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

Wiring diagram

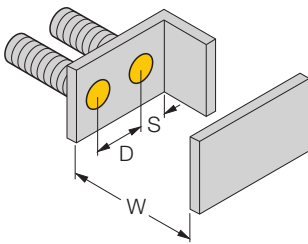
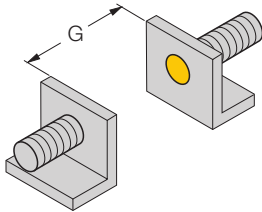
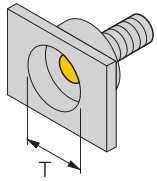


Functional principle

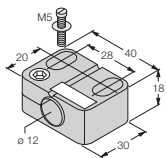

Inductive sensors are designed for wear-free and non-contact detection of metal objects. Due to a ferrite-less 3-coil system, uprox factor 1 sensors have distinct advantages. They detect all metals at the same switching distance, are magnetic field immune and feature large switching distances.

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
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Accessories

Type code	Ident-No.	Short text	Dimension drawing
BST-12B	6947212	fixing clamp with dead-stop; material: PA6	
QMT-12	6945106	quick-mount fixing clamp with dead-stop; material: teflon-coated brass male thread M16 x 1. Note: The switching distance of proximity switches can be reduced by the use of quick mounting brackets.	
BSS-12	6901321	fixing clamp; material: polypropylene	