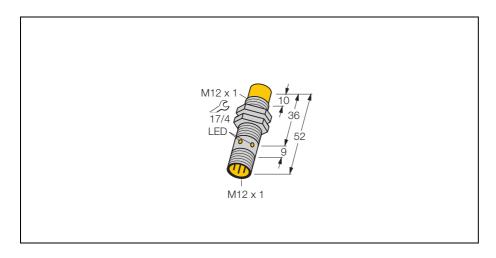
## Inductive sensor with extended switching distance Ni8-M12-AN6X-H1141

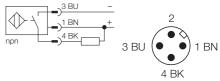




•	threaded	

- **Chrome-plated brass**
- large detection range
- 3-wire DC, 10...30 VDC
- normally open npn output
- connector, M12 x 1

### Wiring diagram



Ni8-M12-AN6X-H1141 Туре Ident-No. 4611315

Rated operating distance Sn 8 mm Mounting condition non-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 3... 15 % -25...+ 70 °C Ambient temperature

Operating voltage 10... 30VDC Residual ripple 10 % U<sub>ss</sub> DC rated operational current 200 mA No-load current I<sub>0</sub> 15 mA 0.1 mA Residual current 0.5 kV Rated insulation voltage Short-circuit protection yes / cyclic 1.8V Voltage drop at I<sub>e</sub> Wire breakage / Reverse polarity protection yes / complete

Output function 3-wire, normally open, npn

Switching frequency 2 kHz

Housing threaded barrel, M12 x 1 Dimensions 52 mm Housing material metal, CuZn, chrome-plated Material active face plastic, PA12-GF30 Tightening torque of housing nut 10 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

### **Functional principle**

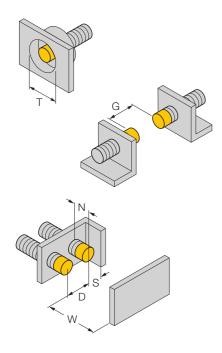
Inductive sensors are designed for wearfree and non-contact detection of metal objects. For this purpose they use a highfrequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

# Edition: • 08.11.2008

## Inductive sensor with extended switching distance Ni8-M12-AN6X-H1141



Mounting instructions	minimum distances	
Distance D	3 x B	
Distance W	3 x Sn	
Distance T	3 x B	
Distance S	1,5 x B	
Distance G	6 x Sn	
Distance N	2 x Sn	
Diameter of the active area B	Ø 12 mm	



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## Inductive sensor with extended switching distance Ni8-M12-AN6X-H1141



## 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 Jan
BST-12B	6947212	fixing clamp with dead-stop; material: PA6	M5 28 40 18 18 18 18
MW-12	6945003	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	9.5 9.5 10,1 13,9 38,1 13,1 14,3 34,8
BSS-12	6901321	fixing clamp; material: polypropylene	18 7,9