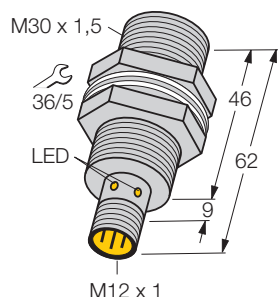


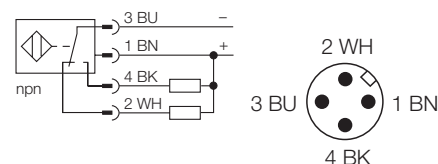
Inductive sensor

Bi10U-MT30-VN4X-H1141



- threaded barrel, M30 x 1,5
- teflon-coated brass
- factor 1 for all metals
- magnetic field immune
- extended temperature range
- high switching frequency
- 4-wire DC, 10...65 VDC
- SPDT, npn output
- connector, M12 x 1

Wiring diagram



Function principles

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

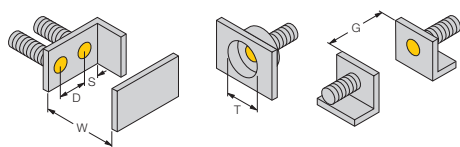
Type	Bi10U-MT30-VN4X-H1141
Ident-No.	1582353
Rated operating distance S_n	10 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	$\leq 2 \%$
Temperature drift	$\leq \pm 10 \%$
Operating temperature	$\leq \pm 15 \%$, $\leq -25 \text{ °C}$ v $\geq +70 \text{ °C}$ -30 ...+ 85 °C
Rated operational voltage (DC) U_B	10... 65 VDC
Max. ripple	$\leq 10 \%$ U_{pp}
Rated operational current (DC) I_e	$\leq 200 \text{ mA}$
No-load current I_0	$\leq 15 \text{ mA}$
Max. OFF-state current	$\leq 0,1 \text{ mA}$
Max. switching frequency	$\leq 2 \text{ kHz}$
Rated insulation voltage	$\leq 0,5 \text{ kV}$
Output function	4-wire, complementary, NPN
Short-circuit protection	yes, cyclic
Max. voltage drop at I_e	$\leq 1,8 \text{ V}$
Wire breakage / reverse polarity protection	yes / complete
Protection class	□
Housing style	threaded barrel; M30 x 1,5
Dimensions	62 mm
Housing material	metal, CuZn, teflon-coated
Active face	plastic, PBT
Max. fixing torque of coupling nut	90 Nm
Wiring	connector, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Switching status indication	LED yellow

Inductive sensor**Bi10U-MT30-VN4X-H1141****Mounting instructions**

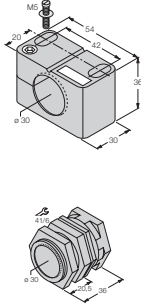
	minimum gap
Gap D	2 x B
Gap W	3 x Sn
Gap T	3 x B
Gap S	1,5 x B
Gap G	6 x Sn

Diameter of active face B

Ø 30 mm



Inductive sensor**Bi10U-MT30-VN4X-H1141****Accessories**

Typ	Ident-No.	Description	Dimension drawing
BST-30B	6947216	fixing clamp with dead-stop; material: PA6	
QMT-30	6945105	quick-mount fixing clamp with dead-stop; material: teflon-coated brass external thread M36 x 1,5.	