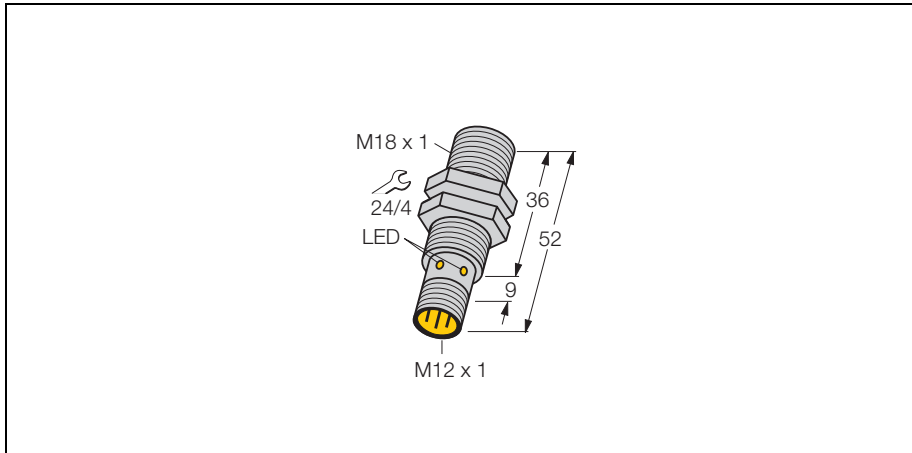
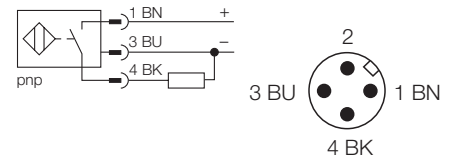


**Inductive sensor
with extended switching distance
Bi8U-M18-AP6X-H1141**



- threaded barrel, M18 x 1
- chrome-plated brass
- factor 1 for all metals
- magnetic field immune
- extended switching distance
- 3-wire DC, 10...30 VDC
- normally open pnp output
- connector, M12 x 1

Wiring diagram



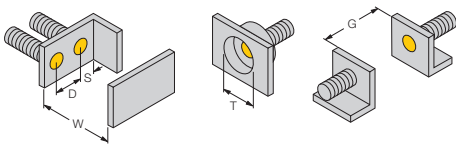
Type	Bi8U-M18-AP6X-H1141
Ident-No.	1644731
Rated operating distance Sn	8 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 15 %
Operating temperature	-10 ...+ 60 °C
Rated operational voltage (DC) U_B	10... 30 VDC
Max. ripple	≤ 10 % U _{pp}
Rated operational current (DC) I _e	≤ 200 mA
No-load current I ₀	≤ 15 mA
Max. OFF-state current	≤ 0,1 mA
Max. switching frequency	≤ 0,5 kHz
Rated insulation voltage	≤ 0,5 kV
Output function	3-wire, normally open, PNP
Short-circuit protection	yes, cyclic
Max. voltage drop at I _e	≤ 1,8 V
Wire breakage / reverse polarity protection	yes / complete
Protection class	☐
Housing style	threaded barrel; M18 x 1
Dimensions	52 mm
Housing material	metal, CuZn, chrome-plated
Active face	plastic, PBT
Max. fixing torque of coupling nut	25 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

Function principles

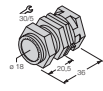
Inductive proximity switches are designed for wear-free non-contact detection of metal objects. Due to a ferrite-less 3-coil system, Uprox factor 1 sensor have distinct advantages. The detect all metals at the same switching distance, are magnetic field immune and feature large switching distances.

uprox[®]**Inductive sensor
with extended switching distance
Bi8U-M18-AP6X-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 18 mm

**Inductive sensor
with extended switching distance
Bi8U-M18-AP6X-H1141****Accessories**

Typ	Ident-No.	Description	Dimension drawing
QM-18	6945102	quick-mount fixing clamp with dead-stop; material: chrome-plated brass external thread M24 x 1,5.	
BST-18B	6947214	fixing clamp with dead-stop; material: PA6	