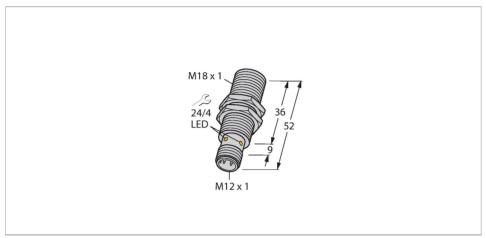


# BI5U-M18-RN6X-H1141 **Inductive Sensor**



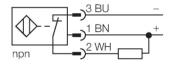


General data	1635153 5 mm
	5 mm
Rated switching distance 5	5 mm
Mounting conditions F	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy ≤	≤ 2 % of full scale
Temperature drift	≤ ±10 %
5	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis 3	315 %
Electrical data	
Operating voltage U <sub>B</sub>	1030 VDC
Ripple U <sub>ss</sub>	≤ 10 % U <sub>Bmax</sub>
DC rated operating current I。	≤ 200 mA
No-load current	≤ 25 mA
Residual current	≤ 0.1 mA
solation test voltage 0	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I。 ≤	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function 3	3-wire, NC contact, NPN
DC field stability 3	300 mT
AC field stability 3	300 mT <sub>ss</sub>
Insulation class	



### **Features**

- ■Threaded barrel, M18 x 1
- Chrome-plated brass
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- ■DC 3-wire, 10...30 VDC
- ■NC contact, NPN output
- ■M12 x 1 male connector





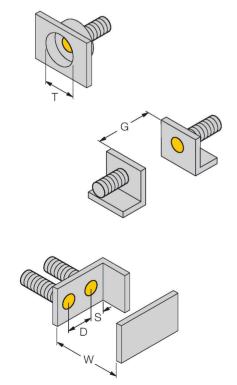


# Technical data

Switching frequency	1.5 kHz
Mechanical data	
Design	Threaded barrel, M18 x 1
Dimensions	52 mm
Housing material	Metal, CuZn, Chrome-plated
Active area material	Plastic, PBT
Max. tightening torque of housing nut	25 Nm
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-30+85 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow

# Mounting instructions

### Mounting instructions/Description



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 active area B	Ø 18 mm



## Accessories

BST-18B 6947214

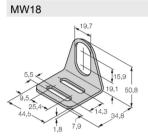
Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6

QM-18

6945102

Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M24 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

6945004

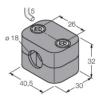


Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

BSS-18

6901320

Polypropylene



Mounting clamp for smooth and threaded barrel sensors; material: