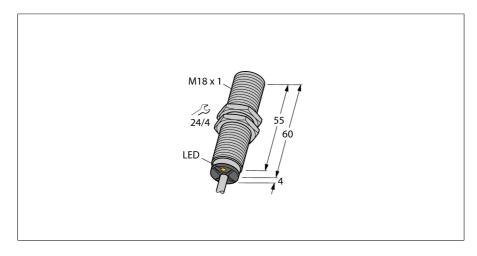


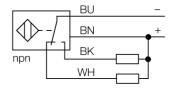
Inductive Sensor With Extended Switching Distance BI8U-M18M-VN44X



Туре	BI8U-M18M-VN44X	
ID	1634880	
Remark to product	Product discontinued.	
	Please use the alternative product 100003662 with	
	an operating voltage of 1030 VDC.	
General data		
Rated switching distance Sn	8 mm	
Mounting conditions	Flush	
Secured operating distance	≤ (0.81 × Sn) mm	
Repeat accuracy	≤ 2 % of full scale	
Temperature drift	≤ ±10 %	
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C	
Hysteresis	315 %	
Electrical data		
Operating voltage U _B	1055 VDC	
Ripple U _{ss}	\leq 10 % U_{Bmax}	
DC rated operating current I _e	≤ 200 mA	
Residual current	≤ 0.1 mA	
Isolation test voltage	0.5 kV	
Short-circuit protection	yes/Cyclic	
Voltage drop at I.	≤ 1.8 V	
Wire break/reverse polarity protection	yes/Complete	
Output function	4-wire, Complementary contact, NPN	
DC field stability	300 mT	
AC field stability	300 mT _{ss}	
Insulation class		
Switching frequency	1.5 kHz	

- Threaded barrel, M18 x 1
- Chrome-plated brass
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Large switching distance
- Recessed mountable
- DC 4-wire, 10...55 VDC
- Changeover contact, NPN output
- Cable connection

Wiring Diagram



Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.



Mechanical data		
Design	Threaded barrel, M18 x 1	
Dimensions	64 mm	
Housing material	Metal, CuZn, Chrome-plated	
Active area material	Plastic, LCP	
End cap	Plastic, EPTR	
Max. tightening torque of housing nut	25 Nm	
Electrical connection	Cable	
Cable quality	Ø 5.2 mm, Gray, LifYY, PVC, 2 m	
Core cross-section	4 x 0.34 mm²	
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	



Accessories

Type code	Ident no.		Dimension drawing
PN-M18	6905310	Protective nut for M18 x 1 threaded barrels; material: Stainless steel A2 1.4305 (AISI 303)	25 24 M18 x 1 o 26
MW-18	6945004	Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)	5.5 9.5 44,5 1,8 7,9
BSS-18	6901320	Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene	o 18 32 32 30
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.	M24 x 1,5