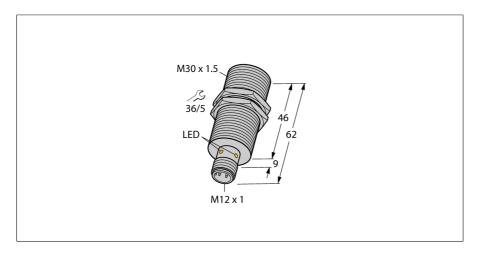


## Inductive Sensor With Extended Switching Distance BI15U-M30-VN44X-H1141





Туре	BI15U-M30-VN44X-H1141	
ID	1634889	
Remark to product	Product discontinued.	

Remark to product	Product discontinued.
	Please use the alternative product 100003678 with
	an operating voltage of 1030 VDC.

Hysteresis	315 %	
<u> </u>	$\leq$ ± 15 %, $\leq$ -25 °C v $\geq$ +70 °C	
Temperature drift	≤ ±10 %	
Repeat accuracy	≤ 2 % of full scale	
Secured operating distance	≤ (0.81 × Sn) mm	
Mounting conditions	Flush	
Rated switching distance Sn	15 mm	
General data		

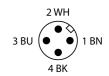
2.001.00. 0010		
Operating voltage U <sub>в</sub>	1055 VDC	
Ripple U <sub>ss</sub>	≤ 10 % U <sub>Bmax</sub>	
DC rated operating current I <sub>e</sub>	≤ 200 mA	
Residual current	≤ 0.1 mA	
Isolation test voltage	0.5 kV	
Short-circuit protection	yes/Cyclic	
Voltage drop at I <sub>e</sub>	≤ 1.8 V	
Wire break/reverse polarity protection	yes/Complete	
Output function	4-wire, Complementary contact, NPN	
DC field stability	300 mT	
AC field stability	300 mT <sub>ss</sub>	
Insulation class		
Switching frequency	1 kHz	

Mechanical data		
Design	Threaded barrel, M30 x 1.5	
Dimensions	62 mm	
Housing material	Metal, CuZn, Chrome-plated	
Active area material	Plastic, LCP	
Max. tightening torque of housing nut	75 Nm	
Electrical connection	Connector, M12 × 1	

- M30 × 1.5 threaded tube
- 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
- M12 x 1 male connector

## 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.

Electrical data



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-M30	6905308	Protective nut for M30 x 1 threaded barrel devices; material: Stainless steel A2 1.4305 (AISI 303)	JS 36  M30 x 1,5  o 38
BST-30B	6947216	Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6	M5 \$ 54 42 36 36 30 30 30
QM-30	6945103	Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M36 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.	0 30 20,5 36
MW-30	6945005	Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)	5.5 11,2 34,5 57,2 10,3 1
BSS-30	6901319	Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene	o 30 40 41 57 30