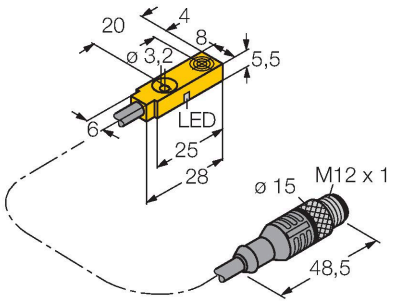
BI2-Q5.5-AP6X-0.4-RS4T/S34/S1764
Inductive Sensor – Resistant to Magnetic Fields



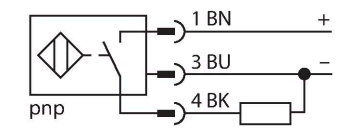
Technical data

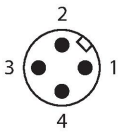
Type	BI2-Q5.5-AP6X-0.4-RS4T/S34/S1764
ID	1613063
Special version	S1764 corresponds to: Weldguard coating Viton fire-resistant jacket The jacket begins at the end of the sensor and, except for 100 mm of shrink tubing at the end of the cable, covers the entire line
General data	
Rated switching distance	2 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Hysteresis	3…15 %
Electrical data	
Operating voltage	10…30 VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 150 mA
No-load current	15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes / Cyclic
Voltage drop at I_e	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete

Features

- Rectangular, height 5.5 mm
- Active face on top
- Plastic, PP
- DC 3-wire, 10…30 VDC
- NO contact, PNP output
- Pigtail with male end M12 x 1

Wiring diagram

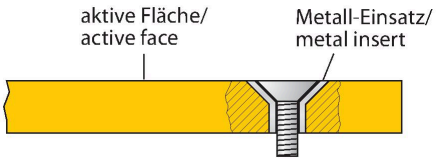




Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

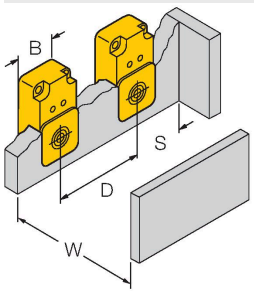
Technical data

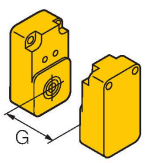


Output function	3-wire, NO contact, PNP
Switching frequency	2 kHz
Mechanical data	
Design	Rectangular, Q5,5
Dimensions	28 x 8 x 5.5 mm
Housing material	Plastic, PP-GF20
Active area material	PP-GF20
Material coupling nut	metal, CuZn, nickel-plated
Tightening torque fixing screw	0.5 Nm
Electrical connection	Cable with connector, M12 × 1
Cable quality	Ø 3 mm, Gray, LIF2X11XFHF, TPU, 0.4 m
	Flame retardant acc. to VDE 0472, part 804B
Core cross-section	3 x 0.14 mm²
Environmental conditions	
Ambient temperature	-25…+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 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 S	1 x B
Distance G	6 x Sn
Width active area B	8 mm

Accessories

MW-Q4.7/Q5.5	6945013

Mounting bracket for rectangular Q4.7 or Q5.5; material VA 1.4401