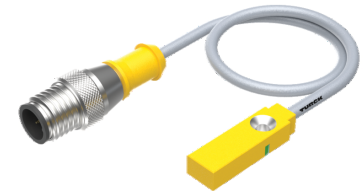
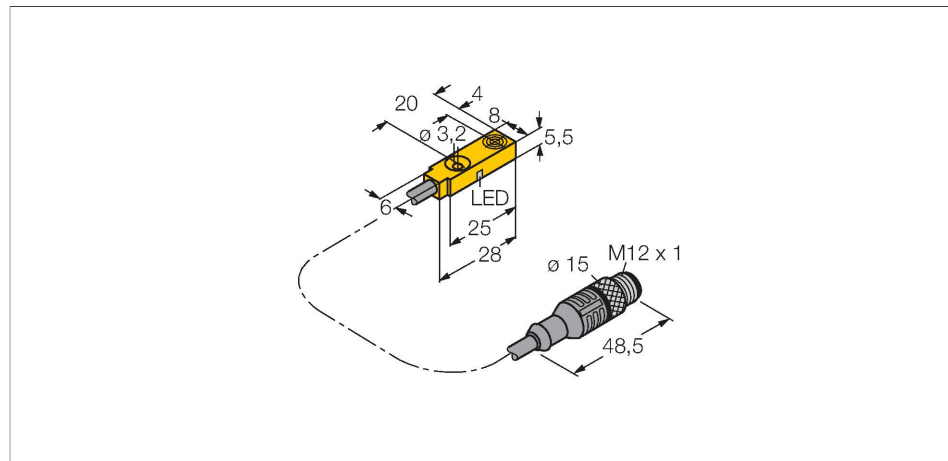


# BI2-Q5.5-AP6X-0.5-RS4T/S1764

Inductive Sensor – With Weldguard® coating and Viton/  
Fiberglass sleeving



## Technical data

Type	BI2-Q5.5-AP6X-0.5-RS4T/S1764
ID	16130001
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

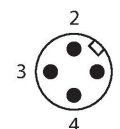
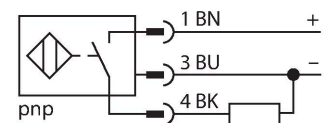
General data	
Rated switching distance	2 mm
Mounting conditions	Flush
Secured operating distance	$\leq (0.81 \times S_n)$ mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	$\leq 2$ % of full scale
Hysteresis	3...15 %

Electrical data	
Operating voltage $U_B$	10...30 VDC
Ripple $U_{as}$	$\leq 10$ % $U_{Bmax}$
DC rated operating current $I_o$	$\leq 150$ mA
No-load current	$\leq 15$ mA
Residual current	$\leq 0.1$ mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at $I_o$	$\leq 1.8$ V
Wire break/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

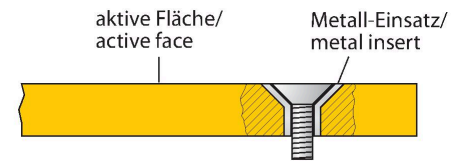


## Functional principle

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
<b>Mechanical data</b>	
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, Lif9Y-11Y, PUR, 0.5 m
	Suited for E-ChainSystems® acc. to manufacturers declaration H1063M
Core cross-section	3 x 0.14 mm <sup>2</sup>
<b>Environmental conditions</b>	
Ambient temperature	-25...+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
Switching state	LED, Yellow



## Mounting instructions

Mounting instructions/Description	
<p>The diagram shows two yellow rectangular sensors mounted on a gray base. Dimensions are indicated with arrows: B (width of one sensor), D (distance between sensor centers), S (height of the base), W (total width of the base), G (height of the sensor), and Sn (height of the sensor base).</p>	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

