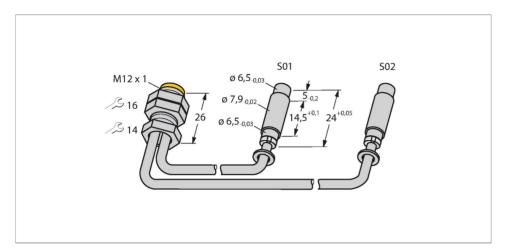


# BI1-EH08/6.5K-2AP6-225/250-FSF4.4K/S922 Inductive Sensor



#### Technical data

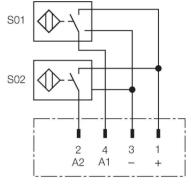
Туре	BI1-EH08/6.5K-2AP6-225/250-FSF4.4K/ S922
ID	1604602
Special version	S922 Corresponds to:For temperatures up to +100 °C. Supplied with a custom washer.
General data	

washer.
1 mm
Flush
≤ (0.81 × Sn) mm
St37 = 1; AI = 0.3; stainless steel = 0.7; Ms = 0.4
≤ 2 % of full scale
≤ ±10 %
315 %
1030 VDC
≤ 10 % U <sub>Bmax</sub>
≤ 150 mA
≤ 20 mA
≤ 0.1 mA
0.5 kV
yes/Cyclic
≤ 1.8 V
Complete
4-wire, NO contact, PNP

### **Features**

- ■FSF monitoring kit with two connected EH08/ E6.5 sensors
- Connection via joint M12 x 1 male
- ■2 x NO contact, PNP output
- ■DC 4-wire, 10...30 VDC

## 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.

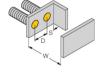


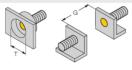
### Technical data

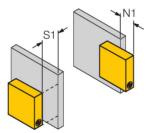
Switching frequency	0.03 kHz
Mechanical data	
Design	Monitoring kit for power clamps, EH08/6,5
Dimensions	21 mm
Housing material	Metal, 1.4301 (AISI 304)
Active area material	Plastic, PA12-GF20
Electrical connection	Connector, M12 × 1
Cable quality	Ø 2.7 mm, Lif12Y33Y, PTFE, 0.225 m, 0.25 m
Core cross-section	3 x 0.14 mm <sup>2</sup>
Environmental conditions	
Ambient temperature	-25+100 °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

## Mounting instructions

## Mounting instructions/Description







Distance D	3 x B
Distance W	3 x Sn
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	2 x Sn
Width active area B	6.5 mm

Please note, non-flush mounting of this sensor is obligatory.

The following conditions allow semi-flush mounting:

N1 = 0 mm and S1 = 1 mm or

N1 = 1 mm and S1 = 0 mm

These values apply for mounting in aluminium

N1 = 0 mm and S1 = 5 mm or

N1 = 5 mm and S1 = 0 mm

These values apply for mounting in St37.