

## IB0802A4

### Inductive sensors • Norm switching distance

sensor inductive, M8x1 16long, Flush, Sn: 1.5, 10-30V DC, PNP NC, Cable 2m PUR (Polyurethane), IP67, Stainless steel 1.4305

including Nut, Toothed washer



The IB0802A4 inductive sensor is a sensor that can detect conductive metals at short distances and is not affected by other materials. This makes it ideal for use in soiling or harsh environments. The sensor complies with the EN 60947-5-2 standard and is suitable for standard applications. The switching distance is set at the factory using a norm measuring plate and is 1.5 mm. The sensor has a cylindrical housing made of stainless steel 1.4305 with an M8x1mm thread. The electrical connection is made via a 3-wire 2m connection cable.

#### Electrical features

Display	LED display
Type of switching function	Normally closed contact (NC)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	200 mA
Relative hysteresis	15 %
Correction factor (aluminum)	0.3
Correction factor (copper)	0.2
Correction factor (brass)	0.4
Correction factor (St37)	1
Correction factor (stainl. steel)	0.7
Short-circuit protection	Yes
No-load current	15 mA
Relative repeat accuracy	10 %
Switching distance	1,5 mm
Switching frequency	1000 Hz
Voltage drop	2 V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30 V

**Mechanical features**

Number of cores	3
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	16 mm
Thread pitch	1 mm
Cable length	2 m
Cable infeed	axial
Length	16 mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PBT)
Housing material	Stainless steel 1.4305
Material of cable sheath	Plastic (PUR)
Thread dimension	M8
Ambient temperature	-25 - 70 °C

**Other features**

Reference medium / object	Standard measuring plate FE360 8x8x1mm
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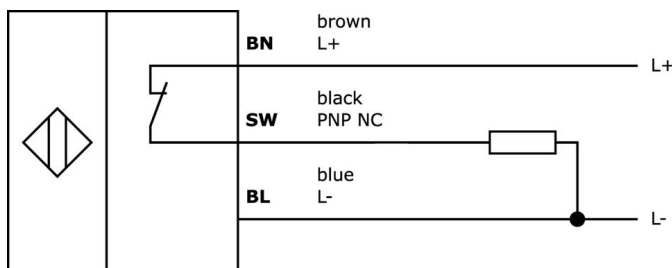
**Classification**

ETIM 8	EC002714 Inductive proximity switch
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**More**

IPF Product Group	203 inductive sensors (diverse)
packaging dimensions	120 x 100 x 15 mm
gross weight	33 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

**Connection**



**Extract accessories program**

**VL250100**



Logic module, 49x80x26mm, AND, 4fold, 10-35V DC, sensor side  
Clamp, control side Clamp, IP40, Plastic

**VL250120**



Logic module, 49x80x26mm, OR, 4fold, 10-35V DC, sensor side  
Clamp, control side Clamp, IP40, Plastic

**VK003076**



Cable connector, Angular, Suitable for self-assembly, Soldering connection, 4A, 60V, -40-85°C, M8 Male (connector) 3pin, IP67, Brass

**VK003078**



Cable connector, Straight, Suitable for self-assembly, Soldering connection, Ø3.5-5mm, 4A, 60V, -40-85°C, M8 Male (connector) 3pin, IP67, Brass

**VK003026**



Cable connector, Angular, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 240V, -25-90°C, M12 Male (connector) 4pin, IP67, PBT

**VK003028**



Cable connector, Straight, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 240V, -25-90°C, M12 Male (connector) 4pin, IP67, PBT

**AY000162**



Accessories, magnetic, Ø43mm, neodymium-iron-boron, inside thread M5, rubber

**AY000159**



accessories sensor, Mounting pipe, Ø12mm 200long, Aluminum Anodised

**AY000115**



accessories sensor, Fixture kit, Metal, ball joint

You can find further accessories on our homepage



**Installation**

Mounting / installation may only be carried out by a qualified electrician!



**Disposal**

WEEE number according to § 6 para. 3 ElektroG: 40951076

**Safety warnings**

- / Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.
- / Never use these devices in applications where the safety of a person depends on their functionality.