

IB0602A4

Inductive sensors • Norm switching distance

sensor inductive, Ø6,5mm 16long, Flush, Sn: 1.5, 10-30V DC, PNP NC, Cable 2m PUR (Polyurethane), IP67, V4A



The IB0602A4 is an inductive sensor that can detect conductive metals at short distances without being affected by other materials. This makes the sensor ideal for use in soiling or harsh environments. The sensor is manufactured in accordance with EN 60947-5-2 and is suitable for standard applications.

The switching distance of the IB0602A4 is 1.5 mm at the factory and is set using a norm measuring plate whose edge length corresponds to the diameter of the sensor surface. The cylindrical housing of the sensor is made of stainless steel 1.4404 and has a cut-in thread. The sensor is electrically connected via a 3-wire 2 m 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	5000 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 plain
Diameter	6.5 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 (PA6.6)
Housing material	Stainless steel 1.4404
Material of cable sheath	Plastic (PUR)
Ambient temperature	-25 - 70 °C
Line diameter	3.5 mm

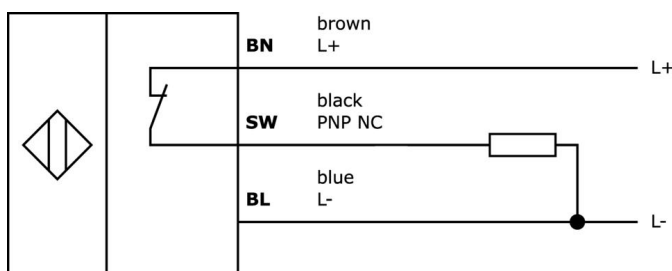
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	203 inductive sensors (diverse)
packaging dimensions	120 x 100 x 17 mm
gross weight	40 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Extract accessories program

AY000029



Accessories Sensor, holder, Ø6.
5mm 20 long

AY000065



Accessories Sensor, holder, Ø6.
5mm, stainl. steel

AY000141



Plastic sheath, Ø17mm, Inner diameter 10mm, -40-250°C, Glass fiber with silicone rubber, Short-term resistance to weld spatter 1200°C, Tensile strength 400N, Flexible, Flame retardant, yard good

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

VY000004



DC power supply, sensor tester, 120x26x72mm, 18V, 0.04A, Spring clamp connection 4pin, IP20, Plastic

NG530002



DC power supply, single-phase, 99x114x22mm, 24V, 0.1A,
Number of relay outputs 2, 100-264V AC 50Hz, 100-264V AC 60Hz,
Screw connection, IP20, Plastic, Stabilized, Output voltage, pulsed

VY850001



Inverter/signal-inversion/turn-off delay, 85x65x18mm, 0.01-10s, 12-30V DC, 1x NC/NO, Clamp 8pin, IP40, Plastic, Plug-in jumpers

VY850002



Inverter/signal-inversion/turn-off delay, 85x65x18mm, 0.01-10s, 12-30V DC, 1x NC/NO, Clamp 8pin, IP40, Plastic, Plug-in jumpers

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.