IB0601A4

Inductive sensors ● Norm switching distance

sensor inductive, Ø6,5mm 16long, Flush, Sn: 1.5, 10-30V DC, PNP NO, IO-Link, Cable 2m PUR (Polyurethane), IP67, V4A

The IB0601A4 inductive sensor recognizes conductive metals at short distances and is insensitive to other materials. It is particularly suitable for use in soiling and harsh environments.

The sensor is manufactured in accordance with EN 60947-5-2 and is suitable for standard applications. The switching distance is set at the factory using a norm measuring plate whose edge length corresponds to the diameter of the sensor surface.

In accordance with the standard, the IB0601A4 flush sensor achieves a switching distance of 1.5 mm. Its cylindrical housing is made of stainless steel 1.4404 with a cut-in thread. The electrical connection is made via a 3-wire 2m connection cable.

Electrical features

Display	LED display
Type of switching function	Normally open contact (NO)
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
Supported communication interface	IO-Link
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 (PPE)
Housing material	Stainless steel 1.4404
Material of cable sheath	Plastic (PUR)
Ambient temperature	-25 - 70 °C
Line diameter	3.5 mm

Other features

IO-Link version	V1.0.1

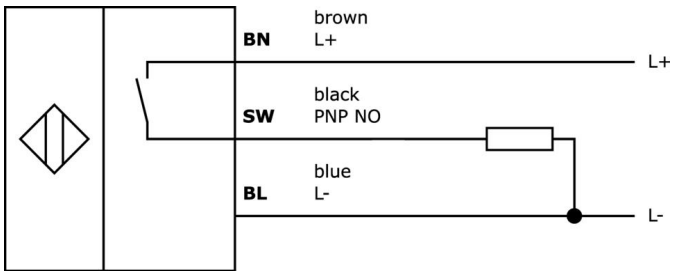
Classification

ETIM 8	EC002714 Inductive proximity switch

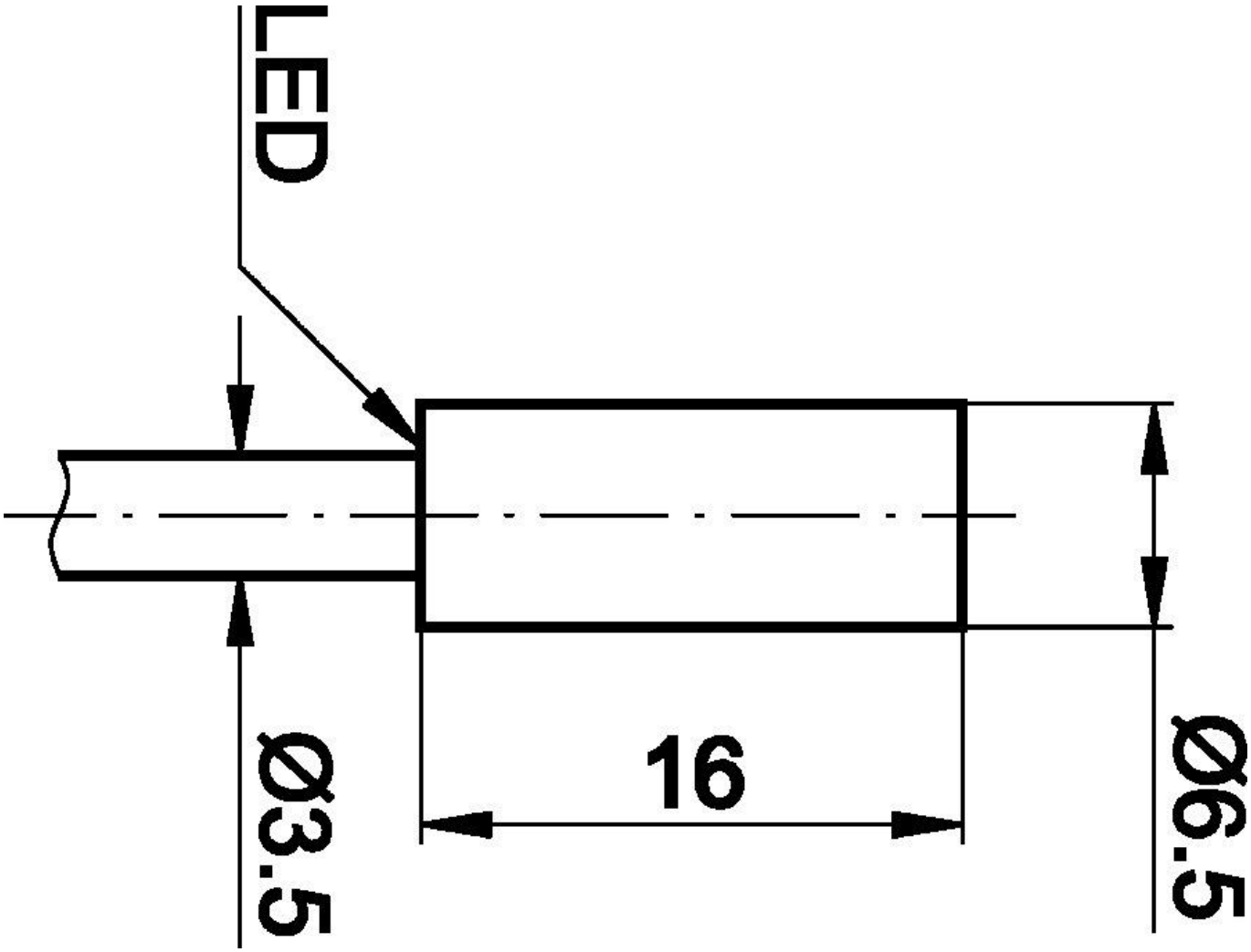
More

IPF Product Group	200 inductive sensors
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



Dimensional drawing



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

VY000005

IO-Link master, 41x24x67mm, IO-Link, M12, With USB interface

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

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.

/ Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: www.ipf-electronic.com