IB060100

Inductive sensors ● Norm switching distance

sensor inductive, Ø6,5mm 50long, Flush, Sn: 1.5, 10-30V DC, PNP NO, Cable 2m PVC, IP67, Stainless steel 1.4305

The IB060100 inductive sensor is a high-quality product that can detect conductive metals at short distances. Its insensitivity to other materials makes it ideal for use in soiling and harsh environmental conditions.

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

In accordance with the standard, the IB060100 flush sensor achieves a switching distance of 1.5mm. The cylindrical housing of the sensor is made of stainless steel 1.4305, into which a thread is cut. The electrical connection is made via a 3-wire 2m connection cable.

Overall, the IB060100 sensor offers reliable and precise detection of conductive materials in demanding environments.

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	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 plain
Diameter	6.5 mm
Cable length	2 m
Cable infeed	axial
Length	50 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 (PVC)
Ambient temperature	-25 - 70 °C
Line diameter	3.5 mm

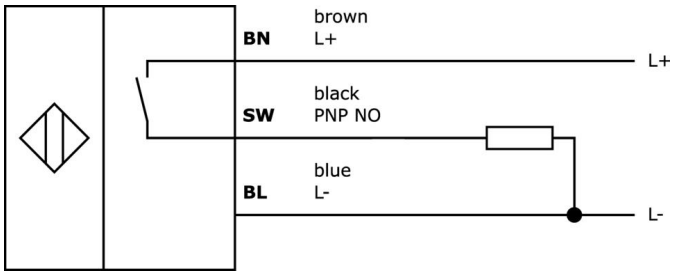
Classification

ETIM 8	EC002714 Inductive proximity switch

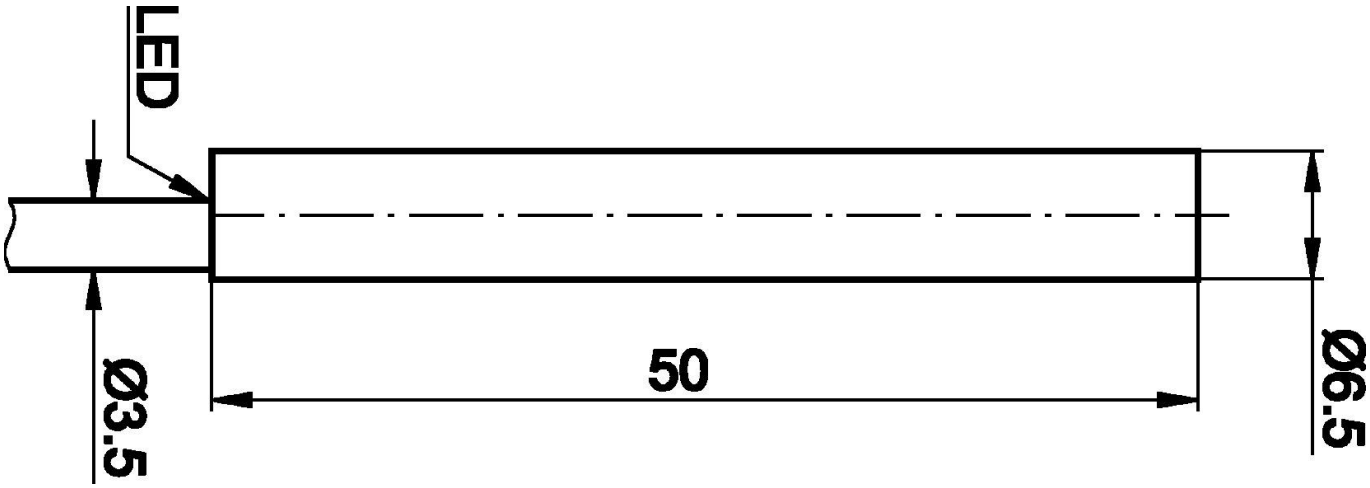
More

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
OzDS-compliant	Yes
POP-compliant	Yes
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

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.