

IB090161

Inductive sensors • Norm switching distance

sensor inductive, 28x8x8mm, Flush, Sn: 2, 10-30V DC, PNP NO, Cable connector M5 0.2m PUR (Polyurethane), IP67, Brass Nickel-plated



The IB090161 inductive sensor is specially designed to detect conductive metals at short distances and is unaffected by other materials. This makes it particularly suitable for use in soiling areas and harsh environmental conditions. This sensor has been manufactured according to EN 60947-5-2 standards and is suitable for all standard applications.

The switching distance of the sensor is set ex works using a norm measuring plate, which has the same edge length as the sensor surface. In accordance with this standard, the IB090161 flush sensor achieves a switching distance of 2 mm. The housing of the sensor is cuboid and made of brass, with cut-in threads for mounting. The electrical connection is made via isFehler.

Electrical features

Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable connector M5
Type of switching output	PNP
Rated switching current	200 mA
Relative hysteresis	20 %
Short-circuit protection	Yes
No-load current	12 mA
Switching distance	2 mm
Switching frequency	5000 Hz
Voltage drop	2 V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30 V

Mechanical features

Design	Cuboid
Width	8 mm
Height	28.5 mm
Cable length	0.2 m
Cable infeed	axial
Length	8 mm
Maximum tightening torque	1 Nm
Mechanical mounting condition for sensor	flush
Surface	nickel-plated
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PBT)
Housing material	Brass
Material of cable sheath	Plastic (PUR)
Ambient temperature	-25 - 75 °C

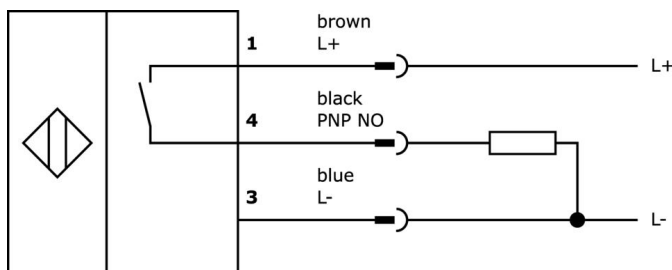
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	215 inductive sensors (cuboid)
packaging dimensions	120 x 100 x 17 mm
gross weight	13 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Extract accessories program

VY000004



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

AY000118



accessories sensor, Fixture kit, Metal, ball joint

AY000162



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

VK200361



Connection cable, 2m, M5 Female (socket) 4pin Angular, Free conductor end, 4x0.14mm², PUR (Polyurethane), Ø3.5mm, 125V, IP67, Oil and cooling lubricants

VK200365



Connection cable, 2m, M5 Female (socket) 4pin Straight, Free conductor end, 4x0.14mm², PUR (Polyurethane), Ø3.5mm, 125V, IP67, Oil and cooling lubricants

NG400501



DC power supply, 1-phase, 125x114x40mm, 24-28V, 5A, 90-264V AC 50Hz, 90-264V AC 60Hz, 127-370V DC, screw connection, IP20, aluminum, stabilized, pulsed output voltage

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

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

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.