

## IB120200

### Inductive sensors • Norm switching distance

sensor inductive, M12x1 52long, Flush, Sn: 3, 10-30V DC, PNP NC, Cable 2m PVC, IP67, Brass Nickel-plated

including Nut



The IB120200 inductive sensor is manufactured in accordance with EN 60947-5-2 and recognizes conductive metals at short distances. It is insensitive to other materials, making it ideal for use in soiling or harsh environments. The sensor is suitable for standard applications and the switching distance is set at the factory using a norm measuring plate. The flush sensor has a switching distance of 3mm and consists of a cylindrical housing made of brass with an M12x1mm 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	3 mm
Switching frequency	800 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	40 mm
Thread pitch	1 mm
Cable length	2 m
Cable infeed	axial
Length	51.5 mm
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 (PVC)
Thread dimension	M12
Ambient temperature	-25 - 70 °C

**Other features**

Reference medium / object	Standard measuring plate FE360 12x12x1mm
---------------------------	--

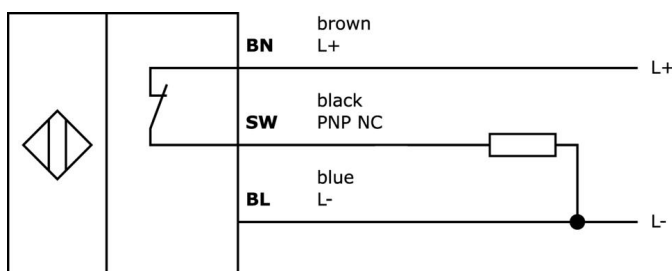
**Classification**

ETIM 8	EC002714 Inductive proximity switch
--------	-------------------------------------

**More**

IPF Product Group	203 inductive sensors (diverse)
packaging dimensions	123 x 77 x 25 mm
gross weight	100 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

**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

**AY000115**



accessories sensor, Fixture kit, Metal, ball joint

**AY000162**



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

**AY000159**



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

**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

**AY000156**



accessories sensor, Clamp sleeve, M16x1 31long, Brass White bronze

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.