

## IB12012C

### Inductive sensors • Norm switching distance

Sensor Inductive, M12x1 45long, flush, Sn: 4, 10-30V DC, PNP NO, M12 connector, IP67, nickel-plated brass

including 2x Nut, 2x Toothed washer



Inductive proximity switches are non-contact sensors. They detect all conductive metals, regardless of whether they are moving or not. The achievable switching distance of the devices depends on the object material and its dimensions. The vibration-insensitive sensors can be approached laterally or frontally. Inductive proximity switches are used for presence detection (e.g. product carriers), positioning (e.g. furnace flaps), counting (e.g. nuts / screws), speed detection (e.g. on gear wheels), on conveyor systems (e.g. hose feeders) or distance measurements (e.g. press-in control) of metallic objects.

#### Electrical features

Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Connector M12
Type of switching output	PNP
Rated switching current	200mA
Correction factor (aluminum)	0.4
Correction factor (copper)	0.4
Correction factor (brass)	0.5
Correction factor (St37)	1
Correction factor (stainl. steel)	0.8
Short-circuit protection	Yes
No-load current	10mA
Number of pins	3
Switching distance	4mm
Switching frequency	2500Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30V

## Mechanical features

Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	37mm
Thread pitch	1mm
Cable infeed	axial
Length	45mm
Maximum tightening torque	6Nm
Mechanical mounting condition for sensor	flush
Surface	nickel-plated
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PBT)
Housing material	Brass
Thread dimension	M12
Ambient temperature	-25 - 70°C

## Other features

Reference medium / object	Standard measuring plate FE360 12x12x1mm
Ambient temperature	-25 - 70°C

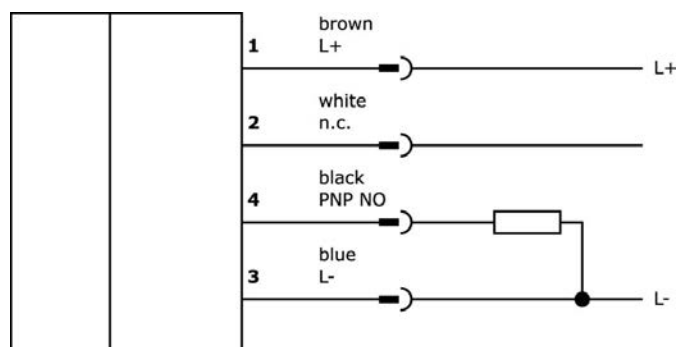
## Classification

ETIM 8	EC002714 Inductive proximity switch
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## More

IPF Product Group	200 inductive sensors
packaging dimensions	215 x 180 x 13 mm
gross weight	32 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

## Connection



#### Installation



Mounting / installation may only be carried out by a qualified electrician!

#### Disposal



#### 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.

For suitable connection and mounting accessories, please refer to our website [www.ipf-electronic.com](http://www.ipf-electronic.com).

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](http://www.ipf-electronic.com)

#### Dimensional drawing

