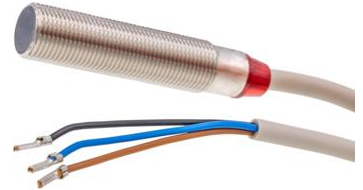


## IB12F004

### Inductive sensors • Norm switching distance

Sensor inductive, M12x1 52long, flush, Sn: 2, 24V diagnostic coverage, 50mA, -20-55°C, PNP NO, 5m PUR-cable, IP67, V4A, ATEX

including 2x Nut



Inductive proximity switches are contactless sensors. They detect all conductive metals, regardless of whether they are moving or not. The switching distance that the devices can achieve depends on the object material and its dimensions. The vibration-resistant sensors can be approached laterally or from the front. Inductive proximity switches are used for presence detection (e.g. goods carriers), positioning (e.g. oven flaps), counting (e.g. nuts / screws), speed detection (e.g. on gear wheels), on conveyor systems (e.g. hose feeds) or distance measurement (e.g. press-fit inspection) of metallic objects.

#### Electrical features

Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	50mA
Switching distance	2mm
Operating voltage (DC)	21,6 - 26,4V

#### Mechanical features

Number of cores	3
Conductor cross-section	0.34mm <sup>2</sup>
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	44mm
Thread pitch	1mm
Cable length	5m
Cable infeed	axial
Length	52mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (POM)
Housing material	Stainless steel 1.4571
Material of cable sheath	Plastic (PUR)
Thread dimension	M12
Ambient temperature	-20 - 55°C

## Other features

ATEX product marking, gas	EX II 1G Ex ma IIC T6...T3 Ga
ATEX product marking, dust	Ex II 1D Ex ma IIIC T <sub>200</sub> 90°C Da
Ambient temperature	-20 - 55°C

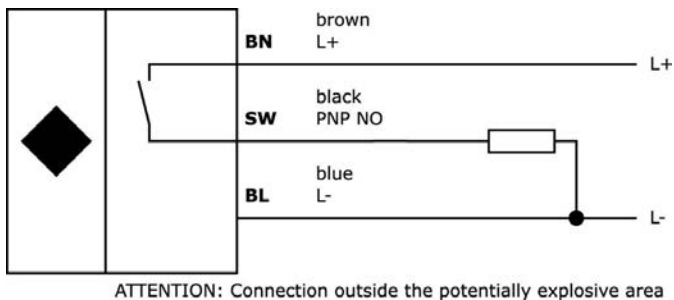
## Classification

ETIM 8
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## More

IPF Product Group	203 inductive sensors (diverse)
packaging dimensions	190 x 125 x 65 mm
gross weight	300 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).

## Dimensional drawing

