

## IB040176

### Inductive sensors • Increased switching distance

Sensor inductive, M4x0.5 22long, flush, Sn: 1, 10-30V diagnostic coverage, PNP NO, IO-Link, M8 cable connector 3-pin 0.15m, IP67, V2A

including 2x Nut, 2x Toothed washer



Inductive proximity switches are contact-free sensors. They detect all conductive metals, regardless of whether they move or not. The achievable sensing range of the devices depends on the object material and its dimensions. The vibration-resistant sensors can be approached laterally or frontally. Inductive proximity switches are used for presence detection (e.g. goods carriers), positioning (e.g. dampers), counting (e.g. nuts /bolts), speed detection (e.g. for cog wheels), on conveyor systems (e.g. hose feedings) or distance measurements (e.g. press-in checking) of metallic objects.

#### Electrical features

Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable connector M8
Type of switching output	PNP
Rated switching current	100mA
Relative hysteresis	10%
Correction factor (aluminum)	0.5
Correction factor (copper)	0.45
Correction factor (brass)	0.6
Correction factor (St37)	1
Correction factor (stainl. steel)	0.8
Short-circuit protection	Yes
No-load current	10mA
Number of pins	3
Relative repeat accuracy	2%
Switching distance	1mm
Switching frequency	3000Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30V

## Mechanical features

Conductor cross-section	0.055mm <sup>2</sup>
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Diameter	4mm
Thread length	16mm
Thread pitch	0.5mm
Cable length	0.15m
Cable infeed	axial
Length	22mm
Maximum tightening torque	0.8Nm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PET)
Housing material	Stainless steel (V2A)
Thread dimension	M4
Ambient temperature	-25 - 70°C

## Other features

IO-Link version	V1.0.1
Reference medium / object	Standard measuring plate FE360 4x4x1mm
Ambient temperature	-25 - 70°C

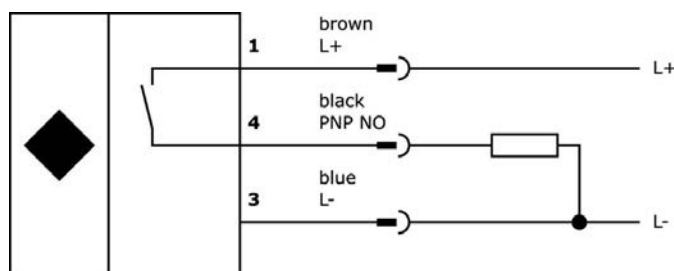
## Classification

ETIM 8	EC002714 Inductive proximity switch
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## More

IPF Product Group	201 inductive sensors (plus / super plus)
packaging dimensions	210 x 185 x 10 mm
gross weight	18 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

