

**IBR30176****Inductive sensors • Increased switching distance**

sensor inductive, Ø3mm 22long, Flush, Sn: 1, 10-30V DC, PNP NO, IO-Link, Cable connector M8 3pin 0.15m, IP67, V2A



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**

Alignment of cable entry	axial
Design	Cylinder plain
Diameter	3mm
Cable length	0.15m
Cable infeed	axial
Length	22mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PCB)
Housing material	Stainless steel 1.4301
Ambient temperature	-25 - 70°C

**Other features**

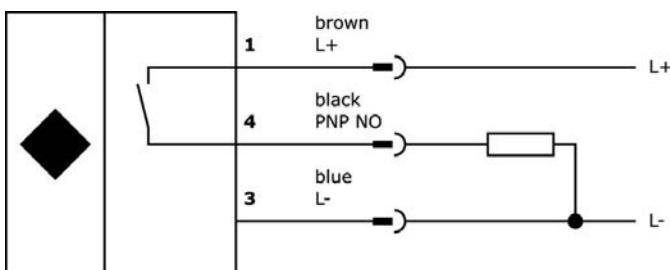
IO-Link version	V1.0.1
Reference medium / object	Standard measuring plate FE360 3x3x1mm
Ambient temperature	-25 - 70°C

**Classification**

ETIM 8	EC002714 Inductive proximity switch
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**More**

IPF Product Group	201 inductive sensors (plus / super plus)
packaging dimensions	215 x 180 x 9 mm
gross weight	10 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**