

**IB210170****Inductive sensors • Norm switching distance**

sensor inductive, 41x10x20mm, Flush, Sn: 5, 10-50V DC, PNP NO, Connector M8, IP67, Brass Nickel-plated



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	Connector M8
Type of switching output	PNP
Rated switching current	200mA
Relative hysteresis	20%
Short-circuit protection	Yes
No-load current	10mA
Switching distance	5mm
Switching frequency	1000Hz
Voltage drop	3V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 50V

**Mechanical features**

Design	Cuboid
Width	20mm
Height	41mm
Cable infeed	axial
Length	10mm
Mechanical mounting condition for sensor	flush
Surface	nickel-plated
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PBT)
Housing material	Brass
Ambient temperature	-25 - 75°C

**Other features**

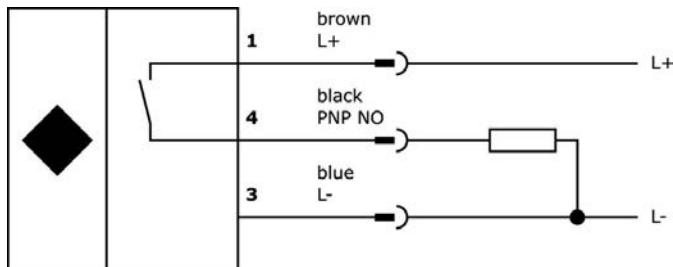
Ambient temperature	-25 - 75°C
---------------------	------------

**Classification**

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

**More**

IPF Product Group	215 inductive sensors (cuboid)
packaging dimensions	120 x 100 x 17 mm
gross weight	26 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
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).