

**IB189129****Inductive sensors • welding-proof**

Sensor inductive, M18x1 65long, Sn: 8, 10-30V diagnostic coverage, -40-85°C, PNP NO, M12 plug connector 3-pin, IP69K, brass, welding proof, factor 1

including 2x Nut



Inductive proximity switches are contactless sensors. They detect all conductive metals, irrespective of whether they are moving or not. The achievable switching distance of the devices depends on the object material and its dimensions. The vibration-resistant sensors can be approached from the side or front. Inductive proximity switches are used for presence detection (e.g. product carriers), positioning (e.g. furnace hatches), counting (e.g. nuts / bolts), speed detection (e.g. on toothed wheels), on conveyor systems (e.g. hose feeds) or for distance measurements (e.g. press-in checks) 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	100mA
Relative hysteresis	15%
Correction factor (aluminum)	1
Correction factor (copper)	1
Correction factor (brass)	1
Correction factor (St37)	1
Correction factor (stainless steel V2A: 1mm)	1
Correction factor (stainless steel V2A: 2mm)	1
Short-circuit protection	Yes
No-load current	20mA
Number of pins	3
Switching distance	8mm
Switching frequency	2000Hz
Voltage drop	2.5V
Interference resistance to magnetic fields	Immune against magnetic DC-field
Operating voltage (DC)	10 - 30V
Magnetic field resistant	Yes

**Mechanical features**

Design	Cylinder, screw-thread
Thread length	50mm
Thread pitch	1mm
Cable infeed	axial
Length	65mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP69K
Active area material of sensor	Plastic (LCP)
Housing material	Brass
Material independent sensors (factor 1)	Yes
Thread dimension	M18
Ambient temperature	-40 - 85°C

**Other features**

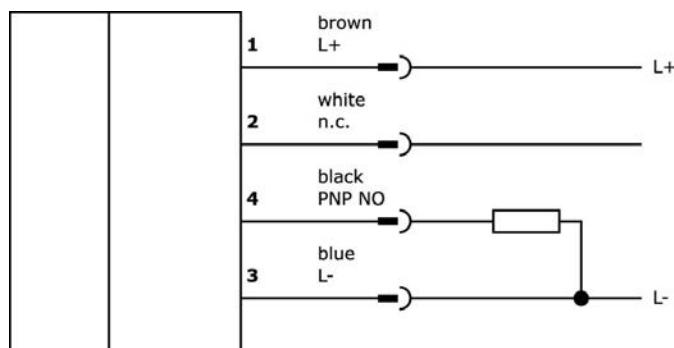
Welding area	Yes
Ambient temperature	-40 - 85°C

**Classification**

ETIM 8	EC002714 Inductive proximity switch
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**More**

IPF Product Group	207 inductive sensors (welding proof)
packaging dimensions	210 x 150 x 19 mm
gross weight	50 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).

**Dimensional drawing**