

## IB182020

### Inductive sensors • Distance measurement

sensor inductive, analog, M18x1 61long, Flush, Sn: 0.5-5, 11-35V DC, 1 ... 9V, Connector M12 PVC, IP67, Brass Nickel-plated, resolution 5µm

including 2x Nut



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

Response/decay time	0.5ms
Resolution	0.005mm
Type of analog output	1 - 9V
Type of electrical connection	Connector M12
Short-circuit protection	Yes
Load resistance (voltage output)	1kOhm
No-load current	20mA
Relative repeat accuracy	1%
Reverse polarity protection	Yes
Operating voltage (DC)	11 - 35V
Measuring range	0,5 - 5mm

#### Mechanical features

Design	Cylinder, screw-thread
Thread pitch	1mm
Cable infeed	axial
Length	61mm
Mechanical mounting condition for sensor	flush
Surface	nickel-plated
Degree of protection (IP)	IP67
Housing material	Brass
Material of cable sheath	Plastic (PVC)
Thread dimension	M18
Ambient temperature	-10 - 70°C

#### Other features

Ambient temperature	-10 - 70°C
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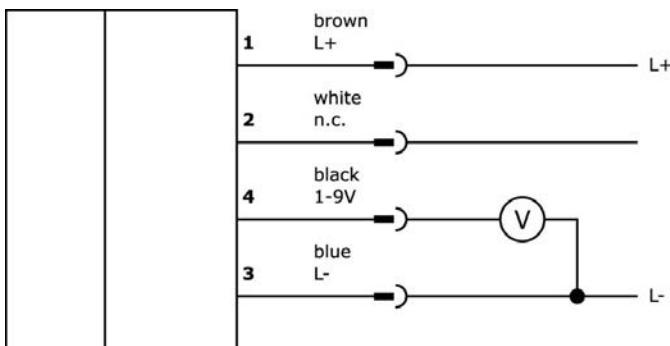
**Classification**

ETIM 8

EC001818 Inductive distance sensor

**More**

IPF Product Group	209 inductive sensors (analog)
packaging dimensions	123 x 77 x 25 mm
gross weight	73 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).