

**IB080076****Inductive sensors • Distance measurement**

sensor inductive, analog, M8x1 60long, Quasi-flat, Sn: 0-4, 15-30V DC, 0-10V, Connector M8 3pin, IP67, Brass Chrome-plated, resolution 1µm

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**

Resolution	0.001mm
Type of analog output	0 - 10V
Type of electrical connection	Connector M8
Readiness delay	50ms
Correction factor (aluminum)	0.28
Correction factor (copper)	0.25
Correction factor (brass)	0.4
Correction factor (St37)	1
Correction factor (stainl. steel)	0.68
Short-circuit protection	Yes
No-load current	10mA
Number of pins	3
Reverse polarity protection	Yes
Absolute repeat accuracy	0.3mm
Operating voltage (DC)	15 - 30V
Measuring range	0 - 4mm

**Mechanical features**

Design	Cylinder, screw-thread
Thread length	45mm
Thread pitch	1mm
Cable infeed	axial
Length	60mm
Mechanical mounting condition for sensor	semi-flush
Surface	Chrome-plated
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PBTP)
Housing material	Brass
Thread dimension	M8
Ambient temperature	-25 - 70°C

**Other features**

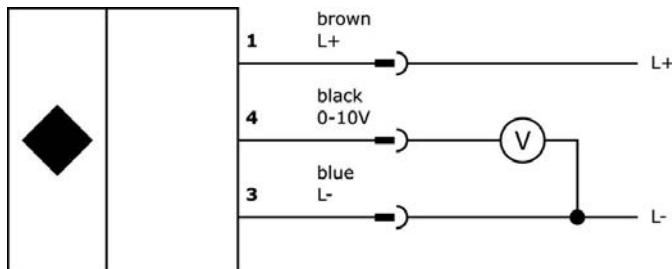
Ambient temperature	-25 - 70°C
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**Classification**

ETIM 8	EC001818 Inductive distance sensor
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**More**

IPF Product Group	209 inductive sensors (analog)
packaging dimensions	123 x 77 x 25 mm
gross weight	20 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).

**Dimensional drawing**