

IB080071

Inductive sensors • Distance measurement

Sensor Inductive, analog, M8x1 46lang, flush, Sn: 0-2, 12-36V DC, 0-10V, M8 connector 3pin, IP67, VA, resolution 5µm

including 2x Nut



analog output 0...10V
resolution 5µm

Inductive proximity switches are non-contact sensors. They detect all conductive metals, regardless of whether they are moving or not. The achievable switching distance of the devices depends on the object material and its dimensions. The vibration-insensitive sensors can be approached laterally or frontally. Inductive proximity switches are used for presence detection (e.g. product carriers), positioning (e.g. oven doors), counting (e.g. nuts / screws), speed detection (e.g. on gear wheels), on conveyor systems (e.g. hose feeders) or distance measurements (e.g. press-fit control) of metallic objects.

Electrical features

Response/decay time	0.5ms
Resolution	0.005mm
Type of analog output	0 - 10V
Type of electrical connection	Connector M8
Short-circuit protection	Yes
Load resistance (voltage output)	4kOhm
No-load current	10mA
Linearity deviation	0,06 - 0,14mm
Number of pins	3
Relative repeat accuracy	1%
Temperature drift over entire measuring range	5%
Reverse polarity protection	Yes
Absolute repeat accuracy	0.02mm
Operating voltage (DC)	12 - 36V
Measuring range	0 - 2mm

Mechanical features

Design	Cylinder, screw-thread
Thread length	34mm
Thread pitch	1mm
Cable infeed	axial
Length	46mm
Maximum tightening torque	7Nm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic
Housing material	Stainless steel
Thread dimension	M8
Ambient temperature	-10 - 70°C

Other features

Ambient temperature	-10 - 70°C
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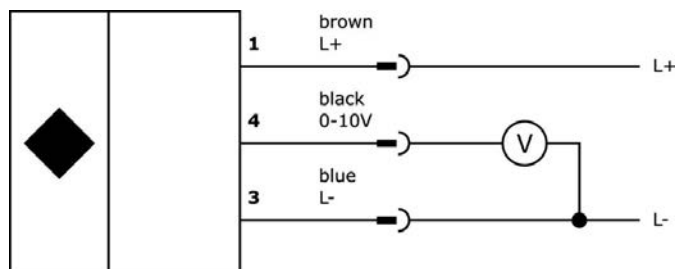
Classification

ETIM 8

More

IPF Product Group	209 inductive sensors (analog)
packaging dimensions	120 x 100 x 10 mm
gross weight	19 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.