

**IC180123****Inductive sensors • Full-metal housing**

sensor inductive, all-steel, M18x1 60long, Quasi-flat, Sn: 6, 10-30V DC, PNP NO,  
Connector M12 3pin, IP67, V4A, 20bar

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**

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	200mA
Relative hysteresis	20%
Correction factor (copper)	0.35
Correction factor (stainl. steel)	0.55
Short-circuit protection	Yes
No-load current	14mA
Number of pins	3
Switching distance	6mm
Switching frequency	100Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30V

**Mechanical features**

Alignment of cable entry	axial
Design	Cylinder, screw-thread
Pressure resistance	20bar
Thread length	45mm
Thread pitch	1mm
Cable infeed	axial
Length	60mm
Max. operating pressure	20bar
Mechanical mounting condition for sensor	semi-flush
Degree of protection (IP)	IP67
Active area material of sensor	Stainless steel 1.4404
Housing material	Stainless steel 1.4404
Thread dimension	M18
Ambient temperature	-25 - 70°C

**Other features**

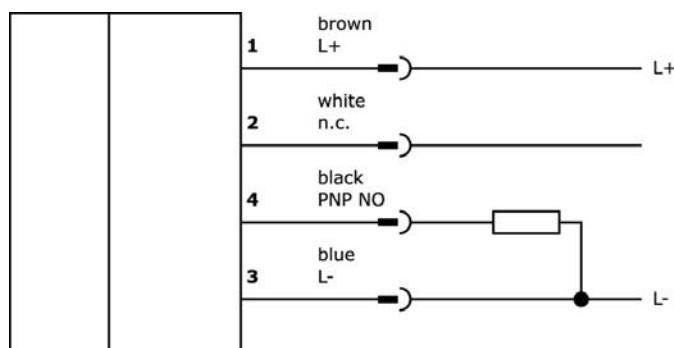
Harsh environmental conditions	Yes
Feeding technology	Yes
Oil and cooling lubricants	Yes
Reference medium / object	Standard measuring plate FE360 30x30x1mm
Ambient temperature	-25 - 70°C

**Classification**

ETIM 8	EC002714 Inductive proximity switch
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**More**

IPF Product Group	204 inductive sensors (all-steel)
packaging dimensions	123 x 77 x 25 mm
gross weight	70 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**