

**IN180107****Inductive sensors • Norm switching distance**

sensor inductive, M18x1 82long, Non-flush, Sn: 8, 10-60V DC, PNP NO, Cable 2m PVC, IP67, PA 6 (synthetic)

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	Cable
Type of switching output	PNP
Rated switching current	200mA
Relative hysteresis	10%
Correction factor (aluminum)	0.4
Correction factor (copper)	0.3
Correction factor (brass)	0.4
Correction factor (St37)	1
Correction factor (stainl. steel)	0.7
Short-circuit protection	Yes
No-load current	8mA
Line diameter	5mm
Relative repeat accuracy	5%
Switching distance	8mm
Switching frequency	200Hz
Voltage drop	2.5V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 60V

**Mechanical features**

Number of cores	3
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	58mm
Thread pitch	1mm
Cable length	2m
Cable infeed	axial
Length	81.5mm
Mechanical mounting condition for sensor	non-flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PA6)
Housing material	PA 6 (synthetic)
Material of cable sheath	Plastic (PVC)
Thread dimension	M18
Ambient temperature	-25 - 70°C

**Other features**

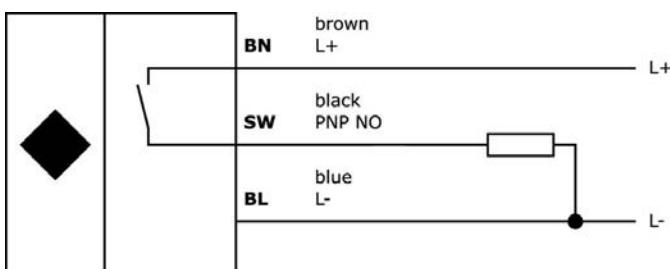
Reference medium / object	Standard measuring plate FE360 18x18x1mm
Ambient temperature	-25 - 70°C

**Classification**

ETIM 8	EC002714 Inductive proximity switch
--------	-------------------------------------

**More**

IPF Product Group	203 inductive sensors (diverse)
packaging dimensions	121 x 76 x 50 mm
gross weight	130 g
Customs tariff number	85365019
WEEE number	40951076
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**