IPF ELECTRONIC

Data sheet IC180157 • Subject to alteration! Version: 02.12.2019

IC180157
INDUCTIVE SENSORS • FULL-METAL HOUSING

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.

MECHANICAL FEATURES

Active area material of sensor	Stainless steel 1.4305
Ambient temperature	-25 °C ... 130 °C
Cable length	10 m
Degree of protection (IP)	IP65
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4305
Increased ambient temperatures > 80°C	+
Material of cable sheath	Silicone
Mechanical mounting condition for sensor	Flush
Number of cores	3
Pressure-proof	-
Sensor length	71 mm
Thread length	60 mm
Thread pitch	1 mm
Thread size, metric	18

ELECTRICAL FEATURES

Cascadable	-
Max. output current	150 mA
No-load current	15 mA
Reverse polarity protection	+
Short-circuit protection	+
Suitable for safety functions	-
Supply voltage	7 V ... 35 V
Switching distance	5 mm
Switching frequency	30 Hz
Type of electrical connection	Cable
Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With monitoring function of downstream devices	-

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OTHER FEATURES

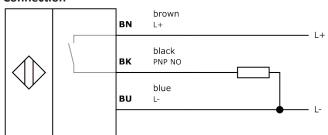|	
Feeding technology	+
Harsh environmental conditions	+
Hygienic and wet area	+
Metallic sensor surface	+
Oil and cooling lubricants	+

Other

Packaging dimensions	124.0mm x 35.0mm x 149.0mm
Shipping weight	0.26kg
Tariff code	85365019

Classification

ipf product group	206
eClass 8.0	27270101
eClass 9.0	27270101
eClass 9.1	27270101
ETIM-5.0	EC002714
ETIM-6.0	EC002714
ETIM-7.0	EC002714

Connection

Dimensional drawing

Installation

Mounting / installation may only be carried out by a qualified electrician!

Disposal

Software
Please download the software or driver required for operating your new device on our homepage: www.ipf.de

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.
LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.