IN800423

Inductive sensors ● Increased switching distance

sensor inductive, Ø80mm 40long, Non-flush, Sn: 70, 10-55V DC, PNP Anticoincidence,
Connector M12 4pin, IP67, PBT

including 1x Screwdriver

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	Exclusive-OR
Type of electrical connection	Connector M12
Type of switching output	PNP
Rated switching current	400mA
Setting procedure	Potentiometer
Relative hysteresis	15%
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	10mA
Number of pins	4
Residual ripple	15%
Switching distance	70mm
Switching frequency	75Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 55V
Output functions	Switching point

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Mechanical features

Alignment of cable entry	axial
Design	Cylinder plain
Diameter	80mm
Cable infeed	axial
Length	40mm
Mechanical mounting condition for sensor	non-flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PBT)
Housing material	PBT
Ambient temperature	-25 - 70°C

Other features

Number of sensor surfaces	1
Reference medium / object	Standard measuring plate FE360 210x210x1mm
Ambient temperature	-25 - 70°C

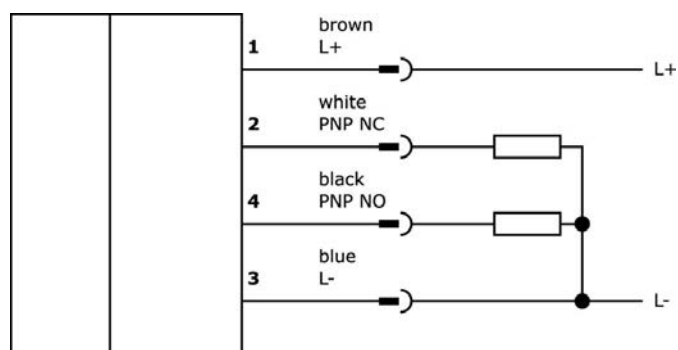## Classification

ETIM 8	EC002714 Inductive proximity switch

More

IPF Product Group	203 inductive sensors (diverse)
packaging dimensions	157 x 97 x 58 mm
gross weight	473 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

AbN
automation

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.

Dimensional drawing

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