

IN30F003

Inductive sensors • Increased ambient temperature

Sensor Inductive, M30x1,5 79lang, non-flush, Sn: 15, 10-35V DC, 0-180°C, PNP NO, Cable 10m PTFE, IP50, VA,ATEX

including 2x Nut



Inductive proximity switches are contactless 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	2.5ms
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	150mA
Readiness delay	6ms
Relative hysteresis	15%
Correction factor (aluminum)	0.3
Correction factor (copper)	0.2
Correction factor (brass)	0.6
Correction factor (St37)	1
Correction factor (stainl. steel)	0.7
Short-circuit protection	Yes
No-load current	15mA
Relative repeat accuracy	3%
Residual ripple	10%
Switching distance	15mm
Switching frequency	200Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 35V

Mechanical features

Number of cores	3
Conductor cross-section	0.22mm ²
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	60mm
Thread pitch	1.5mm
Length	79mm
Mechanical mounting condition for sensor	non-flush
Degree of protection (IP)	IP50
Active area material of sensor	Plastic (Vectra®)
Housing material	Stainless steel 1.4305
Material of cable sheath	Plastic (PTFE)
Thread dimension	M30
Ambient temperature	0 - 180°C

Other features

ATEX product marking, dust	II 3D Ex tc IIIB T185°C Dc -25°C<Tamb<180°C
Explosion safety category for dust	ATEX dust-ex-protection, Cat. 3D
Reference medium / object	Standard measuring plate FE360 30x30x1mm
Ambient temperature	0 - 180°C

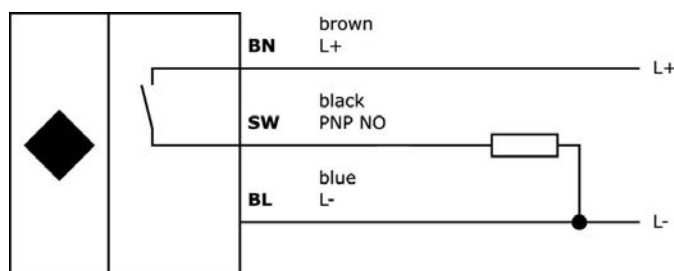
Classification

ETIM 8

More

IPF Product Group	202 inductive sensors (high temperature)
packaging dimensions	149 x 124 x 35 mm
gross weight	374 g
Customs tariff number	85365019
WEEE number	40951076
ATEX-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.

Dimensional drawing

