

IB186050 INDUCTIVE SENSORS • ENLARGED AMBIENT TEMPERATURE

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	Vectra®
Ambient temperature	0 °C ... 230 °C
Cable length	3 m
Degree of protection (IP)	IP50
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4305
Increased ambient temperatures > 80°C	+
Material of cable sheath	PTFE
Mechanical mounting condition for sensor	Flush
Pressure-proof	-
Sensor length	30 mm
Thread length	25 mm
Thread pitch	1 mm
Thread size, metric	18

ELECTRICAL FEATURES

Cascadable	-
Connection to amplifier	+
Hysteresis	15 %
Norm measuring plate	18x18x1
Suitable for safety functions	-
Switching distance	5 mm
Switching frequency	300 Hz
Type of electrical connection	Connector M12
Type of switching function	Amplifier
Type of switching output	Other
With monitoring function of downstream devices	-

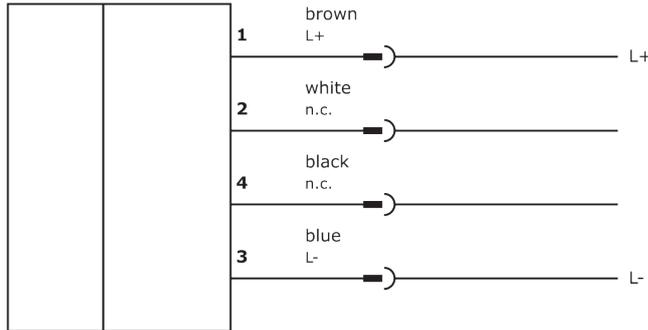
Other

Packaging dimensions	124.0mm x 28.0mm x 149.0mm
Shipping weight	0.18kg
Tariff code	85365019

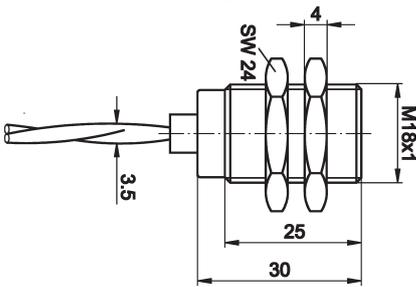
Classification

ipf product group	202
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.