

IB086050

Inductive sensors • Increased ambient temperature

sensor inductive, M8x1 30long, Flush, Sn: 2, 0-140°C, Other Anschluss an Verstärker, Connector M12 3m Polytetrafluorethylene (PTFE), IP50, V2A

including 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

Type of switching function	Amplifier
Type of electrical connection	Connector M12
Type of switching output	other
Relative hysteresis	15 %
Switching distance	2 mm
Switching frequency	300 Hz
Reverse polarity protection	Yes
Connection to amplifier	Yes

Mechanical features

Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	23 mm
Thread pitch	1 mm
Cable length	3 m
Cable infeed	axial
Length	30 mm
Maximum tightening torque	3 Nm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP50
Active area material of sensor	Plastic (Vectra®)
Housing material	Stainless steel (V2A)
Material of cable sheath	Plastic (PTFE)
Thread dimension	M8
Ambient temperature	0 - 140 °C

Other features

Reference medium / object	Standard measuring plate FE360 8x8x1mm
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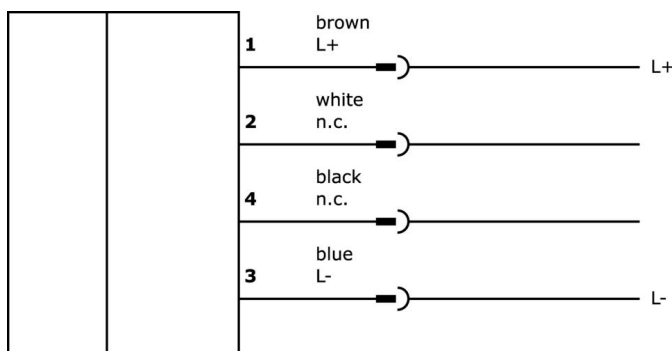
Classification

ETIM 8	EC002714 Inductive proximity switch
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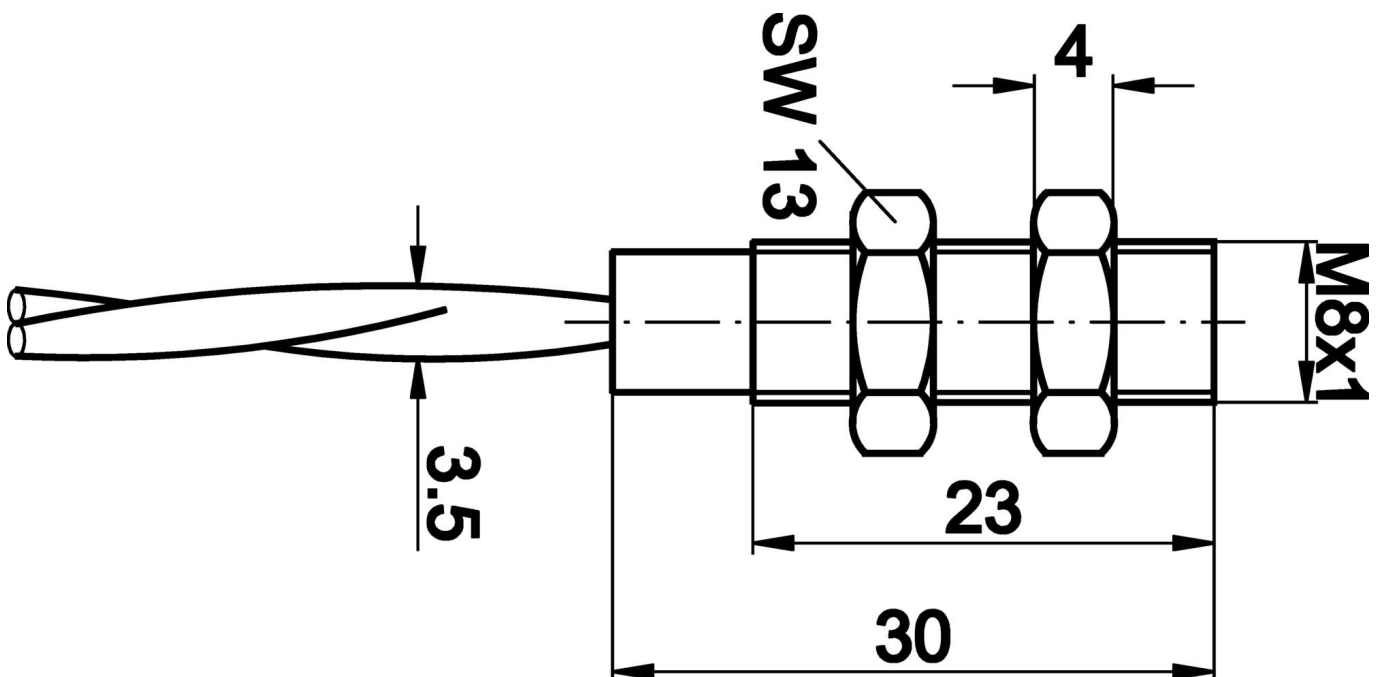
More

IPF Product Group	202 inductive sensors (high temperature)
packaging dimensions	149 x 124 x 28 mm
gross weight	180 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

AY000010



accessories sensor, Ø8mm, Aluminum, For sensor 8mm, for Wall mounting, Screw mounting

AY000024



accessories, Hexagon nut, M8x1, Wrench size 13mm, Brass Nickel-plated

AY000162



Accessories, magnetic, Ø43mm, neodymium-iron-boron, inside thread M5, rubber

AY000159



accessories sensor, Mounting pipe, Ø12mm 200long, Aluminum Anodised

AY000115



accessories sensor, Fixture kit, Metal, ball joint

IV120450



amplifier inductive, high-temperature, M12x1 55long, 10-35V DC, NO/NC, M12 plug-in connection 4pin 2m PUR (polyurethane), IP65, V2A, with LED display

IV400720



amplifier inductive, High-temperature, 42x86x40mm, 10-30V DC, PNP Normally open/ normally closed, Plug-in connection M12 4pin, IP65, Aluminum, With LED display

AY98A607



accessories sensor, Teflon cap, Ø16mm 16long, inner thread 12, Polytetrafluorethylene (PTFE)

AY98C293



accessories sensor, Teflon cap, M8x1 5long, Polytetrafluorethylene (PTFE)

You can find further accessories on our homepage



Installation

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



Disposal

WEEE number according to § 6 para. 3 ElektroG: 40951076

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.