

IB089179

Inductive sensors • welding-proof

Sensor inductive, M8x1 40long, flush, Sn: 3, 10-30V DC, -40-85°C, PNP NO, M8 plug connector 3-pin, IP69K, V4A, welding proof, factor 1

including Nut



Inductive proximity switches are contactless sensors. They detect all conductive metals, irrespective of whether they are moving or not. The achievable switching distance of the devices depends on the object material and its dimensions. The vibration-resistant sensors can be approached from the side or front. Inductive proximity switches are used for presence detection (e.g. product carriers), positioning (e.g. furnace hatches), counting (e.g. nuts / bolts), speed detection (e.g. on toothed wheels), on conveyor systems (e.g. hose feeds) or for distance measurements (e.g. press-in checks) of metallic objects.

Electrical features

Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Connector M8
Type of switching output	PNP
Rated switching current	100 mA
Relative hysteresis	15 %
Correction factor (aluminum)	1
Correction factor (copper)	1
Correction factor (brass)	1
Correction factor (St37)	1
Correction factor (stainless steel V2A: 1mm)	1
Correction factor (stainless steel V2A: 2mm)	1
Correction factor (stainl. steel)	1
Short-circuit protection	Yes
No-load current	20 mA
Number of pins	3
Switching distance	3 mm
Switching frequency	2000 Hz
Voltage drop	2.5 V
Interference resistance to magnetic fields	Immune against magnetic DC-field
Reverse polarity protection	No
Operating voltage (DC)	10 - 30 V
Magnetic field resistant	Yes

Mechanical features

Tightening torque	5 Nm
Design	Cylinder, screw-thread
Thread length	28 mm
Thread pitch	1 mm
Cable infeed	axial
Length	40 mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP69K
Active area material of sensor	Plastic (LCP)
Housing material	Stainless steel 1.4404
Thread dimension	M8
Ambient temperature	-40 - 85 °C

Other features

Welding area	Yes
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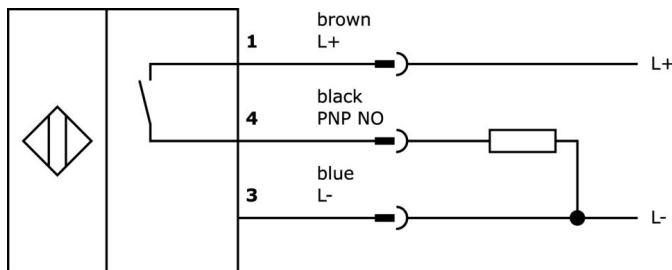
Classification

ETIM 8	EC002714 Inductive proximity switch
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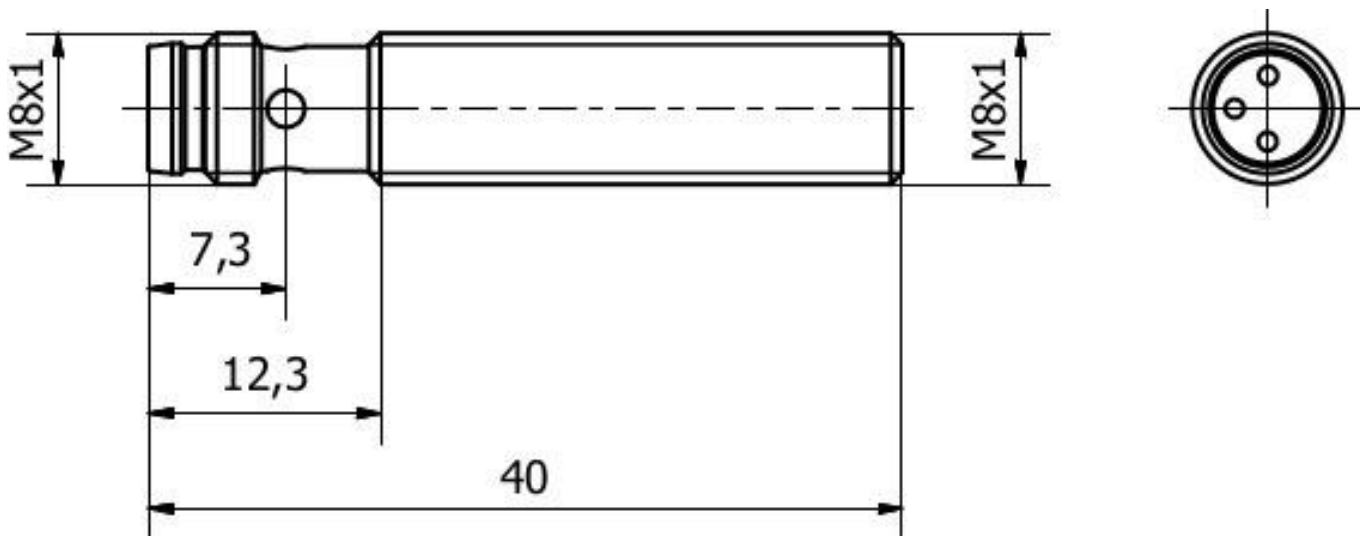
More

IPF Product Group	207 inductive sensors (welding proof)
packaging dimensions	220 x 150 x 10 mm
gross weight	17 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

VK200271



Connection cable, 2m, M8 Female (socket) 3pin Angular, Free conductor end, 3x0.34mm², PUR (Polyurethane), Ø4.3mm, -30-90°C, IP67, With LED display, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silico...

VK500271



Connection cable, 5m, M8 Female (socket) 3pin Angular, Free conductor end 3pin, 3x0.34mm², PUR (Polyurethane), Ø4.3mm, -30-90°C, IP67, With LED display, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, S...

AY000162



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

AY000159



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

VK030F70



Connection cable, 0.3m, M8 socket 3-pin angular, M8 connector 3-pin straight, 3x0.34mm², PUR (polyurethane), 60V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK030F74



Connection cable, 0.3m, M8 socket 3-pin straight, M8 connector 3-pin straight, 3x0.34mm², PUR (polyurethane), 60V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK200071



Connection cable, 2m, M8 Female (socket) 3pin Angular, Free conductor end, 3x0.34mm², PUR (Polyurethane), Ø4.3mm, 60V, -40-90°C, IP67, TPU, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

VK200075



Connection cable, 2m, M8 female (socket) 3pin Straight, free conductor end, 3x0.34mm², PUR (Polyurethane), Ø4.3mm, 60V, -30-90°C, IP67, suitable for trailing chain and torsion resistant, oil and cooling lubricants, welding area, Silicone-free

AY000155



accessories sensor, Clamp sleeve, M12x1 32long, Brass White bronze

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.