

IV400720

Inductive sensors • Switching amplifier for high temperature sensors

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



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

Number of channels	1
Display	LED display
Type of switching function	Normally closed contact/normally open contact
Type of electrical connection	Connector M12
Type of switching output	PNP
Rated switching current	200 mA
Short-circuit protection	Yes
No-load current	25 mA
Number of pins	4
Switching frequency	1000 Hz
Switching capacity	4.8 VA
Switching voltage	24 V
Voltage drop	2 V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30 V
Malfunction message output	Yes
Amplifier for inductive sensors	Yes

Mechanical features

Design	Cuboid
Width	40 mm
Height	42 mm
Length	74.5 mm
Mounting method	Floor fastening
Degree of protection (IP)	IP65
Housing material	Aluminum
Ambient temperature	-25 - 75 °C

Other features

Version	Field device
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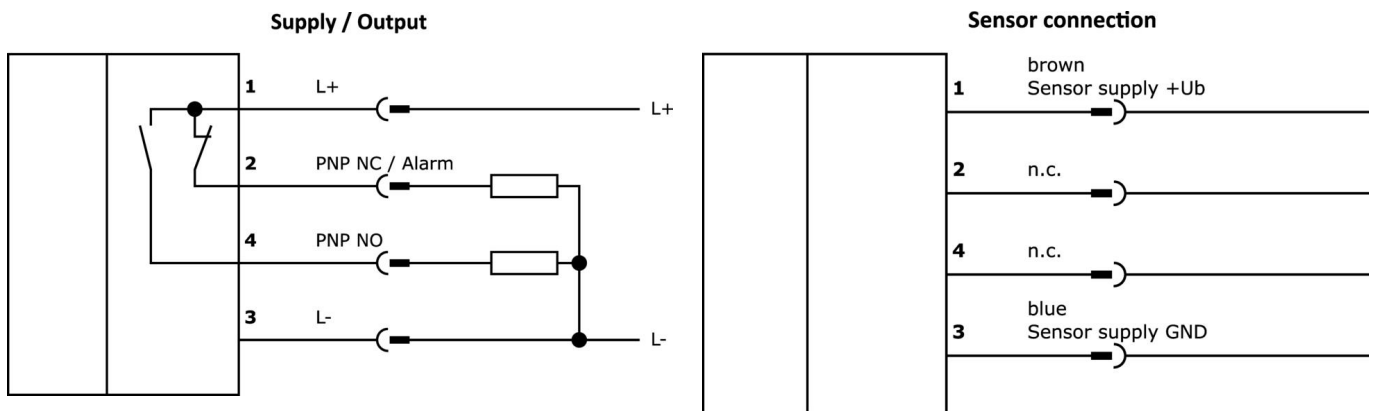
Classification

ETIM 8	EC001485 Isolation amplifier
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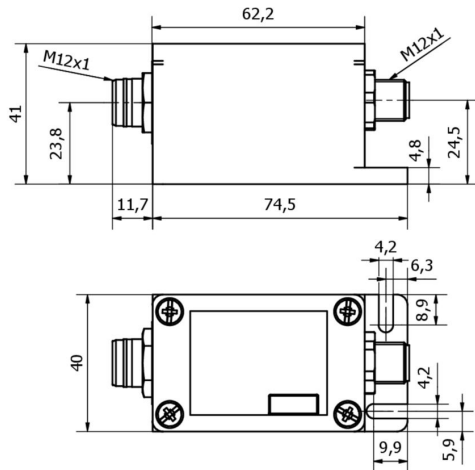
More

IPF Product Group	202 inductive sensors (high temperature)
packaging dimensions	105 x 43 x 43 mm
gross weight	200 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

VK200021



Connection cable, 2m, M12
Female (socket) 3pin Angular, Free conductor end, 3x0.34mm², PUR (Polyurethane), Ø4.3mm, 250V, -30-90°C, IP67, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

VK200025



Connection cable, 2m, M12
Female (socket) 3pin Straight, Free conductor end, 3x0.34mm², PUR (Polyurethane), Ø4.3mm, 250V, -30-90°C, IP67, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

VK003020



Cable socket, angular, self-assembly, screw connection, Ø3-6.5mm, 4A, 240V, -25-90°C, M12 socket 4-pin, IP67, PBT

VK003024



Cable socket, Straight, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 240V, -25-90°C, M12 Female (socket) 4pin, IP67, PBT

VK003021



Cable socket, Angular, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 60V, -25-90°C, M12 Female (socket) 5pin, IP67, PBT

VK003025



Cable socket, Straight, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 60V, -25-90°C, M12 Female (socket) 5pin, IP67, PBT

IB086050



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

IB186050



sensor inductive, M18x1 30long, Flush, Sn: 5, 0-230°C, Other Anschluss an Verstärker, Connector M12 3m Polytetrafluorethylene (PTFE), IP50, Stainless steel 1.4305

VK205321



Connection cable, 2m, M12
Female (socket) 4pin Angular, Free conductor end, 4x0.34mm², PUR (Polyurethane), Ø5.5mm, 250V, -25-90°C, IP67, Shielded, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicon...

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.