

IV120450

Inductive sensors • Switching amplifier for high temperature sensors

amplifier inductive, high-temperature, M12x1 55long, 10-35V DC, NO/NC, M12 plug-in connection 4pin 2m PUR (polyurethane), IP65, V2A, 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	300 mA
Short-circuit protection	Yes
No-load current	25 mA
Number of pins	4
Switching frequency	1000 Hz
Switching voltage	24 V
Voltage drop	2 V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 35 V
Amplifier for inductive sensors	Yes

Mechanical features

Number of cores	4
Design	Cylinder, screw-thread
Thread length	48 mm
Thread pitch	1 mm
Cable length	2 m
Length	55 mm
Mounting method	Counter thread
Degree of protection (IP)	IP65
Housing material	Stainless steel (V2A)
Material of cable sheath	Plastic (PUR)
Thread dimension	M12
Ambient temperature	-25 - 75 °C

Other features

Version	Field device
---------	--------------

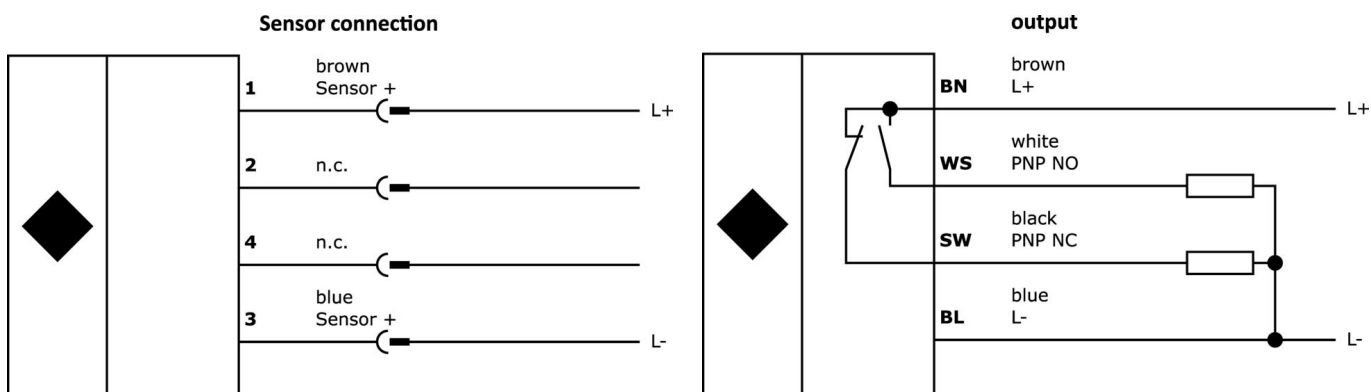
Classification

ETIM 8	EC001485 Isolation amplifier
--------	------------------------------

More

IPF Product Group	202 inductive sensors (high temperature)
packaging dimensions	149 x 124 x 28 mm
gross weight	120 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Extract accessories program

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

AY000162



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

AY000159



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

VK003026



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

VK003028



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

VK003079



Cable connector, Straight, Suitable
for self-assembly, Soldering
connection, Ø3.5-5mm, 4A, 30V, -
40-85°C, M8 Male (connector)
4pin, IP67, Brass

VK003179



Cable connector, Straight, Suitable
for self-assembly, Screw
connection, Ø3.5-5mm, 4A, 30V, -
40-85°C, M8 Male (connector)
4pin, IP67, Brass

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.