

MC120155

Magnetic field sensors • Proximity switches

Magnetic sensor, all-steel, M12x1 69 long, Sn: 40 mm, 18–30 V DC, –25–130 °C, 1x PNP NO, 3-pin 2-meter silicone cable, IP67, VA, 2.8 mT

including Nut

/ Hohe_Schaltfrequenz_und_Schaltabstände
/ Eingebauter_Verstärker



LED-Anzeige Metallhülse_aus_VA

Magnetic proximity switches are contactless sensors. They detect magnetic objects or magnets, regardless of whether they are moving or not. Since magnetic fields penetrate all non-magnetizable materials, the sensors can detect magnets even through non-ferrous metals, stainless steel, aluminum, plastic, wooden walls, or heavy soiling. The achievable switching distance of the devices depends on the strength of the magnetic field acting on them. Magnetic sensors are used for positioning (e.g., position monitoring on lifting devices), speed monitoring (e.g., on conveyor belts or on gear teeth through aluminum housings), or for position detection (e.g., of cargo carriers).

Electrical features

Number of switching outputs	1
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	100 mA
Absolute hysteresis	6 mm
No-load current	20 mA
Magnetic sensitivity	2.8 mT
Switching distance	40 mm
Switching frequency	1000 Hz
Voltage drop	2 V
Operating voltage (DC)	18 - 30 V
ardTEEL_Schutzfunktionen	Short circuit protection Reverse polarity protection

Mechanical features

Number of cores	3
Design	Cylinder, screw-thread
Diameter	12 mm
Thread length	55 mm
Thread pitch	1 mm
Cable length	2 m
Length	69 mm
Degree of protection (IP)	IP67
Active area material of sensor	Stainless steel 1.4305
Housing material	Stainless steel 1.4305
Material of cable sheath	Silicone
Thread dimension	M12
Ambient temperature	-25 - 130 °C
ardTEME_Umgebungsbestaendigkeiten	Öle Kühlschmiermittel

Other features

Harsh environmental conditions	Yes
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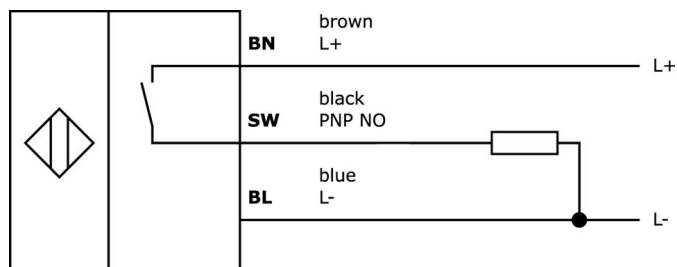
Classification

ETIM 8

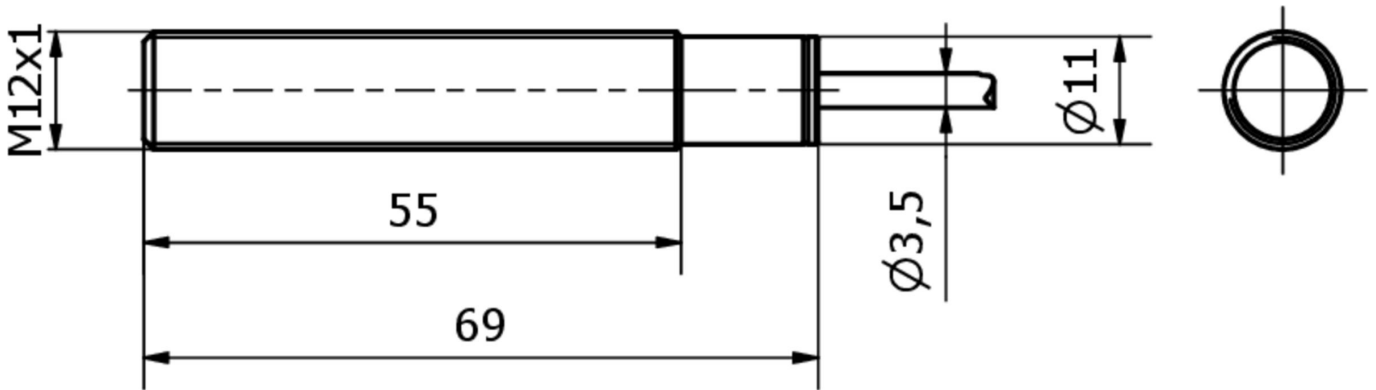
More

IPF Product Group	232 magnetic sensors (high temperature)
packaging dimensions	123 x 77 x 25 mm
gross weight	80 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

AY000141



Plastic sheath, Ø17mm, Inner diameter 10mm, -40-250°C, Glass fiber with silicone rubber, Short-term resistance to weld spatter 1200°C, Tensile strength 400N, Flexible, Flame retardant, yard good

AM000001



Accessories, magnetic, Ø20mm 6.5long, strontium ferrite, internal hole Ø4.3mm, max. 130°C

AM000002



Accessories, magnetic, Ø32mm 15long, strontium ferrite, internal hole Ø5.6mm, max. 130°C

AY000162



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

AY000159



Accessories sensor, mounting tube, Ø12mm 200long, aluminum anodized/anodized

NG530002



DC power supply, single-phase, 99x114x22mm, 24V, 0.1A, Number of relay outputs 2, 100-264V AC 50Hz, 100-264V AC 60Hz, Screw connection, IP20, Plastic, Stabilized, Output voltage, pulsed

VY000004



DC power supply, sensor tester, 120x26x72mm, 18V, 0.04A, Spring clamp connection 4pin, IP20, Plastic

AY000025



accessories, Hexagon nut, M12x1, Wrench size 17mm, Brass Nickel-plated

AY000032



accessories sensor, Ø12mm, Aluminum, For sensor 12mm, for Wall mounting, Screw mounting

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.