

MC050176

Magnetic field sensors • Proximity switches

sensor magnetic, all-steel, M5x0.5 14long, Sn: 40mm, 8-30V DC, 1x PNP NO, Cable connector M8 3pin 0.3m PUR (Polyurethane), IP67, Stainless steel 1.4305, LED, 2.8mT

including Nut



Magnetic proximity switches are contact-free sensors. They detect magnetic objects and - or magnets, regardless of whether they move or not. Since magnetic fields penetrate all non-magnetizable materials, the sensors can detect magnets through walls made of nonferrous heavy metal, stainless steel, aluminum, plastic, wood or through excessive sailing, for instance. The achievable sensing range of the devices depends on the strength of the affecting magnetic field. Magnetic sensors are used for positioning (e.g. position checks on hoisting gear), speed checks (e.g. on conveyor belts or transmission cog wheels through the aluminum housings) or for position detection (e.g. of goods carriers).

Electrical features

Number of switching outputs	1
Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable connector M8
Type of switching output	PNP
Rated switching current	150 mA
Absolute hysteresis	6 mm
Short-circuit protection	Yes
No-load current	20 mA
Magnetic sensitivity	2.8 mT
Number of pins	3
Switching distance	40 mm
Switching frequency	1000 Hz
Voltage drop	2 V
Reverse polarity protection	Yes
Operating voltage (DC)	8 - 30 V

Mechanical features

Design	Cylinder, screw-thread
Diameter	5 mm
Thread length	14.5 mm
Thread pitch	0.5 mm
Cable length	0.3 m
Length	14.5 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	Plastic (PUR)
Thread dimension	M5
Ambient temperature	-25 - 70 °C

Other features

Harsh environmental conditions	Yes
Oil and cooling lubricants	Yes

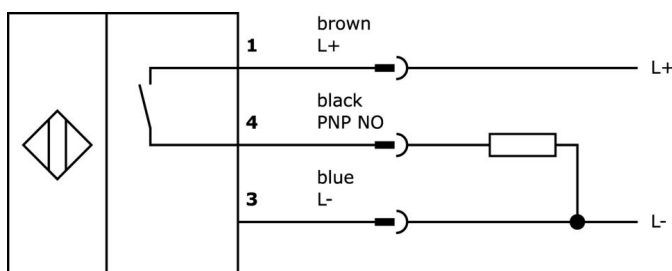
Classification

ETIM 8	EC002544 Magnetic proximity switch
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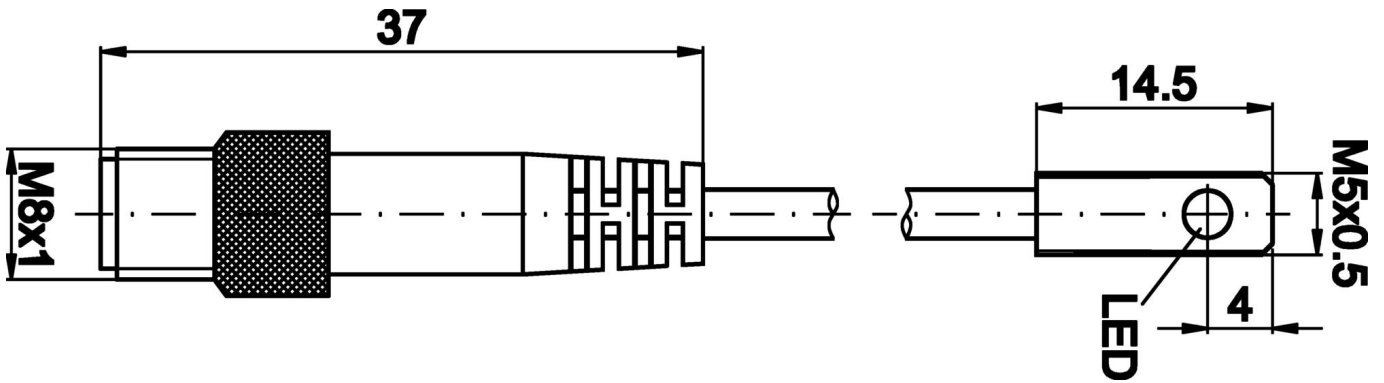
More

IPF Product Group	230 magnetic sensors
packaging dimensions	120 x 100 x 17 mm
gross weight	20 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

AY000018



accessories sensor, Ø5mm, Aluminum, For sensor 5mm, for Wall mounting, Screw mounting

AY000023



accessories, Hexagon nut, M5x0.5, Wrench size 7mm, Brass Nickel-plated

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

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

VK000038



Adaption, M8 Female (socket) 3pin Straight, M8 Male (connector) 4pin Straight, 24V, -25-85°C, IP67, Oil and cooling lubricants, Welding area

VK000036



Adaption, M8 Female (socket) 3pin Straight, M12 Male (connector) 3pin Straight, 24V, -25-85°C, IP67, Oil and cooling lubricants, Welding area

VY000004



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

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

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.