

MZR40128

Magnetic field sensors • Sensors for C-slot

Sensor Magnetic, cylinder, 3.75mm round groove, Ø3.6mm 20long, 10-30V DC, 1x PNP NO, M12 cable connector 4-pin 0.3m PUR (polyurethane), IP67, stainl. steel, LED, 2.8mT, lateral installation, position of sensor surface at the edge of the device



For many tasks in the field of automation technology, it is necessary to recognize the motional processes in pneumatic and hydraulic cylinders and to detect the position of the piston with precision. For this, magnetic cylinder sensors are used.

Electrical features

Number of switching outputs	1
Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable connector M12
Type of switching output	PNP
Rated switching current	150 mA
Absolute hysteresis	1 mm
Short-circuit protection	Yes
No-load current	10 mA
Magnetic sensitivity	2.8 mT
Number of pins	4
Switching frequency	1000 Hz
Sensor surface (active)	Middle area
Voltage drop	2 V
Reverse polarity protection	Yes
Absolute repeat accuracy	0.1 mm
Operating voltage (DC)	10 - 30 V

Mechanical features

Design	Cylinder plain
Diameter	3.6 mm
Cable length	0.3 m
Sensor surface position	Device edge area below the light emitting diode
Length	20.5 mm
Mounting access, cylinder groove	Lateral
Degree of protection (IP)	IP67
Housing material	Stainless steel 1.4305
Material of cable sheath	Plastic (PUR)
Strong vibration / motion	Yes
Ambient temperature	-25 - 70 °C

Other features

Suitable for	3.5mm C-slot (round groove)
Cylinder manufacturer	Festo
Harsh environmental conditions	Yes
Oil and cooling lubricants	Yes

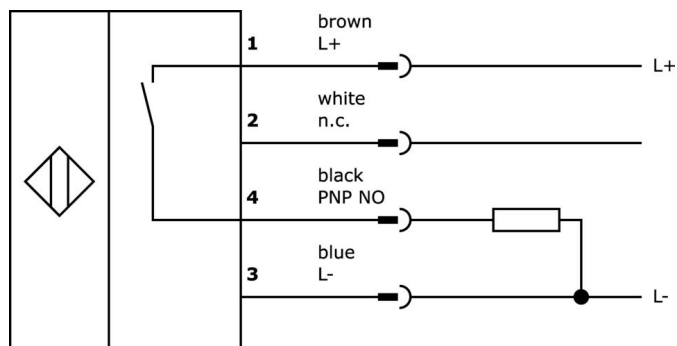
Classification

ETIM 8	EC002544 Magnetic proximity switch
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More

IPF Product Group	220 pneumatic cylinder sensors
packaging dimensions	120 x 100 x 20 mm
gross weight	18 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Extract accessories program

VY000004



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

AV000141



accessories cable socket, Mounting clip, 13.5mm, PPO, Packaging unit 5, Accessories for Cable socket/connector M12

AY000154



Tool, Screwdriver set, Internal hexagon 0.7mm, Internal hexagon 0.9mm, Internal hexagon 1.3mm, Internal hexagon 1.5mm, Internal hexagon 2mm, Slot 1.5mm, Slot 2mm, Slot 2.5mm, Chromium steel

CI200120



counter pulse, 60mm long, 10kHz, 1x preset, 10-30V DC, 1x PNP NO (NO), Connector M12 4pin, IP67, Plastic, Adding

VY200120



time stage, Turn-on/turn-off delayed, Ø20mm 60long, 65s, 10-30V DC, 1x NO, M12 4pin, IP67, Plastic, Teach-In

VY030125



time stage, Turn-on delay, 0-0.15s, 10-35V DC, 1x NO, M12 3pin 0.3m, IP67, Plastic, Potentiometer

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

AY98A607



accessories sensor, Teflon cap, Ø16mm 16long, inner thread 12, Polytetrafluorethylene (PTFE)

AM000081



accessories magnetic, Adapter, 5x20x4,6mm, Aluminum

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.