

MZR4C181

Magnetic field sensors • Sensors for C-slot

sensor magnetic, cylinder, 3.75mm rounded groove, Ø3,6mm 16long, 10-30V DC, 1x PNP NO, Cable connector M8 3pin 0.3m PUR (Polyurethane), IP67, Stainless steel 1.4305, LED, 2.8mT, mounting Lateral, Sensor surface position Border area 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 M8
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	3
Switching frequency	1000 Hz
Sensor surface (active)	Border area / edge area
Voltage drop	2 V
Reverse polarity protection	Yes
Absolute repeat accuracy	0.1 mm
Operating voltage (DC)	10 - 30 V

Mechanical features

Number of cores	3
Design	Cylinder plain
Diameter	3.6 mm
Cable length	0.3 m
Sensor surface position	Device edge area below the light emitting diode
Length	16.5 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

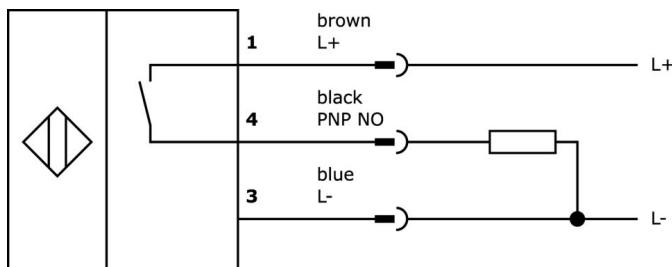
Suitable for	3.5mm C-slot (round groove)
Cylinder manufacturer	Festo
Harsh environmental conditions	Yes
Oil and cooling lubricants	Yes

Classification

ETIM 8	EC002544 Magnetic proximity switch
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More

IPF Product Group	223 pneumatic cylinder sensors (diverse)
packaging dimensions	120 x 100 x 50 mm
gross weight	20 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection

Extract accessories program

VK030F80



Connection cable, 0.3m, M8
socket 3-pin angular, M12
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

VK030F84



Connection cable, 0.3m, M8
socket 3-pin straight, M12
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

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

VYR90270



Signal inversion, Ø9mm 32long,
10-35V DC, 1x NC, M8 0.3m, IP67,
Aluminum

VYR91170



Inverter, Ø9mm 32long, PNP/NPN,
10-35V DC, 1x NO, M8 0.3m, IP67,
Aluminum

AV000142



accessories cable socket,
Mounting clip, 8.5mm, PPO,
Packaging unit 5, Accessories for
Cable socket/connector M8

AY98C293



accessories sensor, Teflon cap,
M8x1 5long,
Polytetrafluoroethylene (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

I Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

I Never use these devices in applications where the safety of a person depends on their functionality.