

MZR9A173

Magnetic field sensors • Sensors for pneumatic cylinders

sensor magnetic, cylinder, 9mm round, Ø9mm 28long, 10-30V DC, 1x PNP NO, Connector M8 3pin, IP67, Aluminum, LED, 2.5mT, mounting From the top, Sensor surface position Center 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	Connector M8
Type of switching output	PNP
Rated switching current	150 mA
Absolute hysteresis	1 mm
Short-circuit protection	Yes
No-load current	15 mA
Magnetic sensitivity	2.5 mT
Number of pins	3
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	9 mm
Sensor surface position	Center of the device
Length	28 mm
Degree of protection (IP)	IP67
Housing material	Aluminum
Strong vibration / motion	Yes
Ambient temperature	-25 - 75 °C

Other features

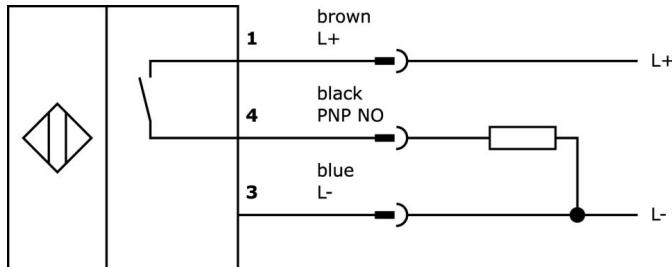
Harsh environmental conditions	Yes
Oil and cooling lubricants	Yes
Version	For 9mm round

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 17 mm
gross weight	10 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

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

VY030170

time stage, Turn-off delay, 0-0.15s,
10-35V DC, 1x NO, M8 3pin 0.3m,
IP67, Plastic, Potentiometer

VY030174

time stage, Turn-off delay, 0-0.15s,
10-35V DC, 1x NO, M8 3pin 0.3m,
IP67, Plastic, Potentiometer

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

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

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.