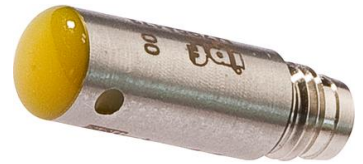


## MZR9A173

### 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 |

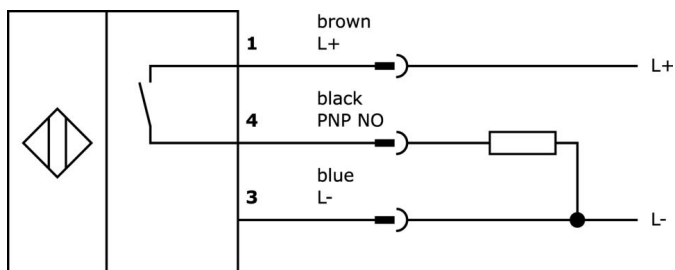
## Classification

|        |                                    |
|--------|------------------------------------|
| ETIM 8 | EC002544 Magnetic proximity switch |
|--------|------------------------------------|

## 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, 3x0.34mm<sup>2</sup>, PUR (polyurethane), 60V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

### VY030170

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

### VYR91170

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

### VK030F84

Connection cable, 0.3m, M8 socket 3-pin straight, M12 connector 3-pin straight, 3x0.34mm<sup>2</sup>, PUR (polyurethane), 60V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

### VY030174

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

### VY000004

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

### 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

### VYR90270

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

### 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.