

## MZR91174

### Magnetic field sensors • Sensors for pneumatic cylinders

sensor magnetic, cylinder, 9mm round, Ø9mm 28long, 10-30V DC, 1x NPN NO, Connector M8 3pin, IP67, Stainless steel, LED, 2.5mT, mounting Lateral, 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      | NPN                        |
| 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          | Stainless steel      |
| Strong vibration / motion | Yes                  |
| Ambient temperature       | -25 - 75 °C          |

## Other features

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

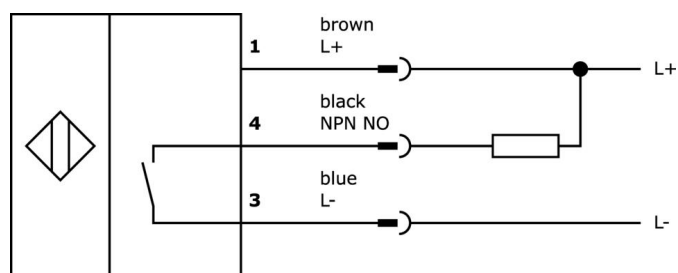
## Classification

|        |                                    |
|--------|------------------------------------|
| 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

### VL300138



Logic module, 26x136x30mm, OR, 2x4fold, 10-30V DC, sensor side M8 Female (socket) 3pin, control side M12 Male (connector) 12pin, IP67, Plastic

### VL300148



Logic module, 26x136x30mm, AND, 4fold, 10-30V DC, sensor side M8 Female (socket) 3pin, control side M12 Male (connector) 12pin, IP67, Plastic, Signal change logic

### VK030F70



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

### VK030F74



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

### 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

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.