

## 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                         |

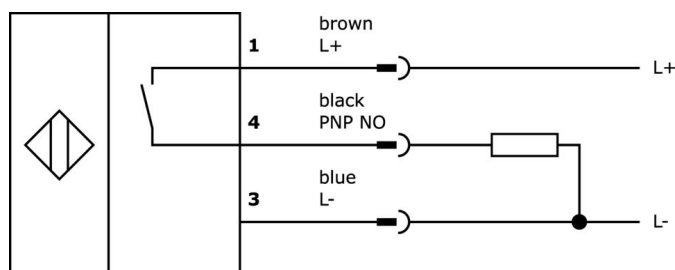
## Classification

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

## More

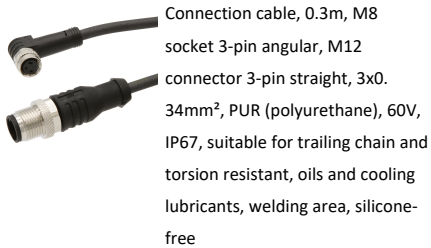
|                       |                                          |
|-----------------------|------------------------------------------|
| IPF Product Group     | 223 pneumatic cylinder sensors (diverse) |
| packaging dimensions  | 120 x 100 x 50 mm                        |
| gross weight          |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

## Connection



## Extract accessories program

### VK030F80



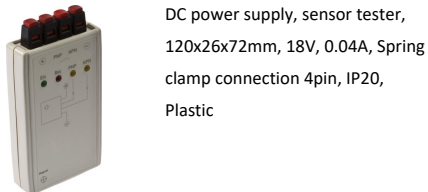
### VK030F84



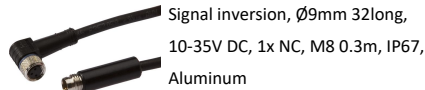
### NG530002



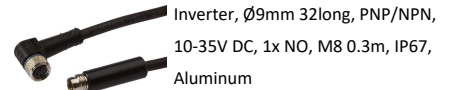
### VY000004



### VYR90270



### VYR91170



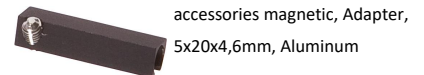
### AV000142



### AY98C293



### AM000081



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.