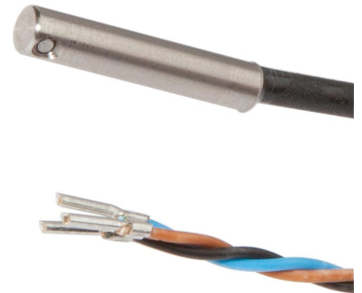


## MZR4E007

### Magnetic field sensors • Sensors for C-slot

sensor magnetic, cylinder, 4.1mm rounded groove, Ø4mm 20long, 10-30V DC, 1x PNP NO, Cable 3m PUR (Polyurethane), IP67, Stainless steel 1.4305, LED, 6mT, 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
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	6 mT
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	4 mm
Cable length	3 m
Sensor surface position	Device edge area below the light emitting diode
Length	20.5 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
Line diameter	2.5 mm

## Other features

Suitable for	4.1mm C-slot (round groove)
Cylinder manufacturer	SMC
Harsh environmental conditions	Yes
Oil and cooling lubricants	Yes

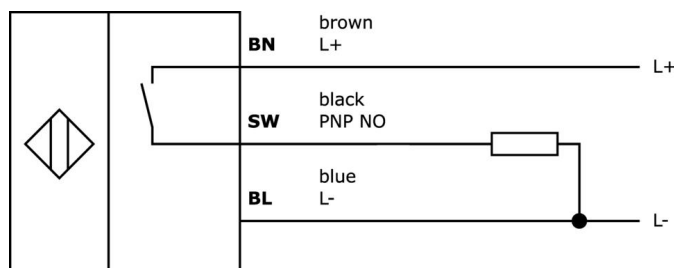
## Classification

ETIM 8	EC002544 Magnetic proximity switch
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## More

IPF Product Group	223 pneumatic cylinder sensors (diverse)
packaging dimensions	123 x 77 x 25 mm
gross weight	49 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

## Connection



## Extract accessories program

### 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

### VY850001



Inverter/signal-inversion/turn-off  
delay, 85x65x18mm, 0.01-10s, 12-  
30V DC, 1x NC/NO, Clamp 8pin,  
IP40, Plastic, Plug-in jumpers

### VY850002



Inverter/signal-inversion/turn-off  
delay, 85x65x18mm, 0.01-10s, 12-  
30V DC, 1x NC/NO, Clamp 8pin,  
IP40, Plastic, Plug-in jumpers

### AY000141



Plastic sheath, Ø17mm, Inner  
diameter 10mm, -40-250°C, Glass  
fiber with silicone rubber, Short-  
term resistance to weld spatter  
1200°C, Tensile strength 400N,  
Flexible, Flame retardant, yard  
good

### 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

### VK003076



Cable connector, Angular, Suitable  
for self-assembly, Soldering  
connection, 4A, 60V, -40-85°C, M8  
Male (connector) 3pin, IP67, Brass

### VK003078



Cable connector, Straight, Suitable  
for self-assembly, Soldering  
connection, Ø3.5-5mm, 4A, 60V, -  
40-85°C, M8 Male (connector)  
3pin, IP67, Brass

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.