

MZ07E177

Magnetic field sensors • Sensors for T-slot

sensor magnetic, cylinder, 6.2mm T-groove, 6,3x20x5,2mm, 10-30V DC, 1x PNP NO, Cable connector M8 3pin 0.3m PUR (Polyurethane), IP67, Aluminum, LED, 2.8mT, 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 | 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) | Middle 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 |
| Conductor cross-section | 0.14 mm ² |
| Design | Cuboid |
| Width | 5.2 mm |
| Height | 6.3 mm |
| Cable length | 0.3 m |
| Sensor surface position | Center of the device |
| Length | 20 mm |
| Mounting access, cylinder groove | Lateral |
| Degree of protection (IP) | IP67 |
| Housing material | Aluminum |
| Material of cable sheath | Plastic (PUR) |
| Strong vibration / motion | Yes |
| Ambient temperature | -25 - 70 °C |

Other features

| | |
|--------------------------------|---------------|
| Suitable for | 6.2mm T-slot |
| Cylinder version | With T-groove |
| Harsh environmental conditions | Yes |
| Oil and cooling lubricants | Yes |

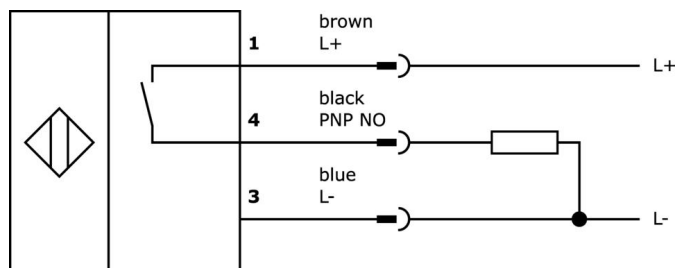
Classification

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

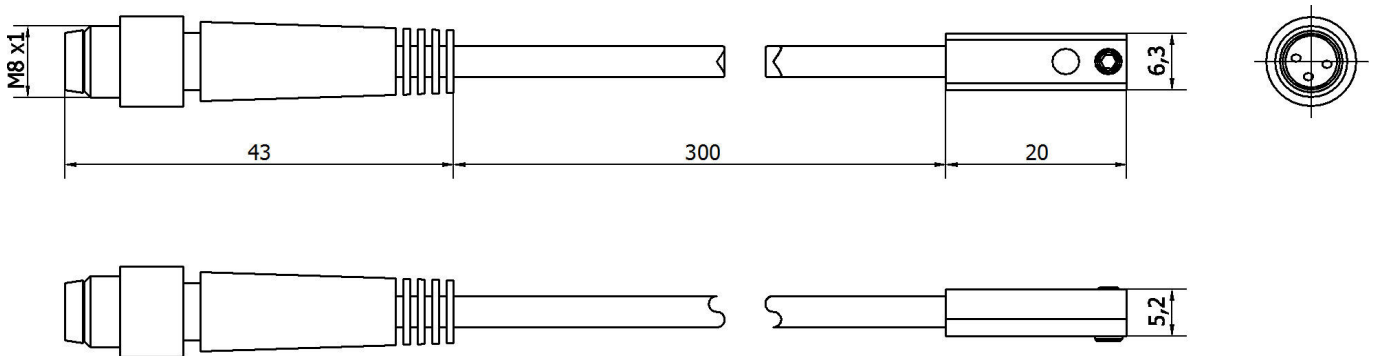
More

| | |
|-----------------------|--------------------------------|
| IPF Product Group | 220 pneumatic cylinder sensors |
| packaging dimensions | 120 x 100 x 15 mm |
| gross weight | 17 g |
| Customs tariff number | 85365019 |
| WEEE number | 40951076 |
| Reach-compliant | Yes |
| RoHS-compliant | Yes |

Connection



Dimensional drawing



Extract accessories program

AM000087



accessories magnetic, Cable clip,
Plastic

VK003070



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

VK003074



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

AM98E153



accessories magnetic, Installation
tape, 259x9,5mm, Span 35-68mm,
For sensor MZ07, Stainless steel

VK200271



Connection cable, 2m, M8 Female
(socket) 3pin Angular, Free
conductor end, 3x0.34mm², PUR
(Polyurethane), Ø4.3mm, -30-
90°C, IP67, With LED display,
Suitable for trailing chain and
torsion resistant, Oil and cooling
lubricants, Welding area, Silico...

VK500271



Connection cable, 5m, M8 Female
(socket) 3pin Angular, Free
conductor end 3pin, 3x0.34mm²,
PUR (Polyurethane), Ø4.3mm, -30-
90°C, IP67, With LED display,
Suitable for trailing chain and
torsion resistant, Oil and cooling
lubricants, Welding area, S...

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

VK200071



Connection cable, 2m, M8 Female
(socket) 3pin Angular, Free
conductor end, 3x0.34mm², PUR
(Polyurethane), Ø4.3mm, 60V, -
40-90°C, IP67, TPU, Suitable for
trailing chain and torsion resistant,
Oil and cooling lubricants, Welding
area, Silicone-free

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.