

## MZ0701AB

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

sensor magnetic, cylinder, 6.2mm T-groove, 6,3x30x6,2mm, 10-30V DC, 1x PNP NO, Cable 10m PUR (Polyurethane), IP67, Zinc die-cast, LED, 2.5mT, mounting Lateral, Short travel path, 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                      |
| Type of switching output      | PNP                        |
| Rated switching current       | 150 mA                     |
| Short-circuit protection      | Yes                        |
| No-load current               | 15 mA                      |
| Magnetic sensitivity          | 2.5 mT                     |
| Switching frequency           | 1000 Hz                    |
| Sensor surface (active)       | Middle area                |
| Voltage drop                  | 2 V                        |
| Reverse polarity protection   | No                         |
| Operating voltage (DC)        | 10 - 30 V                  |

#### Mechanical features

|                                  |                      |
|----------------------------------|----------------------|
| Number of cores                  | 3                    |
| Design                           | Cuboid               |
| Width                            | 6.2 mm               |
| Height                           | 6.3 mm               |
| Cable length                     | 10 m                 |
| Sensor surface position          | Center of the device |
| Length                           | 30 mm                |
| Mounting access, cylinder groove | Lateral              |
| Degree of protection (IP)        | IP67                 |
| Housing material                 | Zinc die-cast        |
| Material of cable sheath         | Plastic (PUR)        |
| Strong vibration / motion        | Yes                  |
| Ambient temperature              | -25 - 70 °C          |

**Other features**

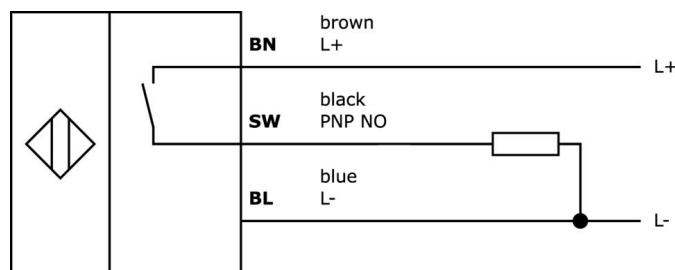
|                                |                         |
|--------------------------------|-------------------------|
| Features                       | short crossing distance |
| Suitable for                   | 6.2mm T-slot            |
| Cylinder version               | With T-groove           |
| 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  | 149 x 124 x 35 mm              |
| gross weight          | 170 g                          |
| Customs tariff number | 85365019                       |
| WEEE number           | 40951076                       |
| Reach-compliant       | Yes                            |
| RoHS-compliant        | Yes                            |

**Connection**

**Extract accessories program****AM000087**accessories magnetic, Cable clip,  
Plastic**AM98A882**accessories magnetic, For sensor  
M207, for Cylinder, Bosch profiled  
barrel, Screw mounting**AM000037**accessories magnetic, Mounting  
clip, 18x19x19mm, span 8.3-9.  
4mm, Plastic, For sensor M207, for  
Cylinder, 8round**AM000038**accessories magnetic, Mounting  
clip, 20x21x19mm, span 10.2-11.  
95mm, Plastic, For sensor M207,  
for Cylinder, 10round**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**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**VY000004**DC power supply, sensor tester,  
120x26x72mm, 18V, 0.04A, Spring  
clamp connection 4pin, IP20,  
Plastic**AM98E153**accessories magnetic, Installation  
tape, 259x9.5mm, Span 35-68mm,  
For sensor M207, Stainless steel

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**

**I** Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

**I** Never use these devices in applications where the safety of a person depends on their functionality.