

## MZA7E260

### MAGNETIC SENSORS • SENSORS FOR PNEUMATIC CYLINDERS

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.

#### MECHANICAL FEATURES

|                                       |                      |
|---------------------------------------|----------------------|
| Ambient temperature                   | -25 °C ... 130 °C    |
| Cable length                          | 1.25 m               |
| Degree of protection (IP)             | IP67                 |
| Housing design                        | Cuboid               |
| Housing material                      | Zinc die-cast        |
| Increased ambient temperatures > 80°C | Yes                  |
| Material of cable sheath              | PTFE                 |
| Metal housing                         | Yes                  |
| Mounting access, cylinder groove      | From the top         |
| Number of cores                       | 3                    |
| Sensor height                         | 4.3 mm               |
| Sensor length                         | 19 mm                |
| Sensor surface position               | Center of the device |
| Sensor width                          | 6.15 mm              |
| Strong vibration / motion             | Yes                  |
| Version                               | 6.2mm T-groove       |

#### ELECTRICAL FEATURES

|   |               |
|---|---------------|
| Cross/short circuit identification possible | No            |
| Hysteresis                                  | 1 mm          |
| Low sensitivity                             | No            |
| Low switching hysteresis                    | Yes           |
| Magnetic sensitivity                        | 2.8 mT        |
| Max. output current                         | 150 mA        |
| No-load current                             | 15 mA         |
| Number of pins                              | 3             |
| Number of switching outputs                 | 1             |
| Operating voltage                           | 10 V ... 30 V |
| Reed contact                                | No            |
| Relative repeat accuracy                    | 0.1 mm        |
| Reverse polarity protection                 | Yes           |
| Sensor surface (active)                     | Middle area   |
| Setting via teach-in                        | No            |

## ELECTRICAL FEATURES

|  |                       |
|--|-----------------------|
| Short-circuit protection                       | Yes                   |
| Suitable for safety functions                  | No                    |
| Switching frequency                            | 1000 Hz               |
| Two switching points                           | No                    |
| Type of electrical connection                  | Cable connector M8    |
| Type of switching function                     | Normally open contact |
| Type of switching output                       | PNP                   |
| Voltage drop                                   | 2 V                   |
| Voltage type                                   | DC                    |
| With LED display                               | No                    |
| With monitoring function of downstream devices | No                    |

## OTHER FEATURES

|                                |               |
|--------------------------------|---------------|
| Cylinder sensors               | Yes           |
| Cylinder version               | With T-groove |
| For T-groove                   | Yes           |
| Harsh environmental conditions | Yes           |
| Metallic sensor surface        | No            |
| Oil and cooling lubricants     | Yes           |
| Short travel path              | No            |

## Other

|                      |                           |
|----------------------|---------------------------|
| Packaging dimensions | 77.0mm x 25.0mm x 123.0mm |
| Shipping weight      |                           |
| Article number       | 85365019                  |

## Classification

|                   |          |
|-------------------|----------|
| ipf product group | 700      |
| eClass 8.0        | 27270105 |
| eClass 9.0        | 27270105 |
| eClass 9.1        | 27270105 |
| ETIM-5.0          | EC002544 |
| ETIM-6.0          | EC002544 |
| ETIM-7.0          | EC002544 |

## Connection

## Dimensional drawing

### Installation



Mounting / installation may only be carried out by a qualified electrician!

### Disposal



## Software

Please download the software or driver required for operating your new device on our homepage: [www.ipf.de](http://www.ipf.de)

## 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.