

## MZ070176

### Magnetic field sensors • Sensors for pneumatic cylinders

sensor magnetic, cylinder, 6.2mm T-groove, 4,6x18x5mm, 10-30V DC, 1x PNP NO, Cable connector M8 3pin 0.3m PUR (Polyurethane), IP67, Zinc die-cast, LED, 2.8mT, mounting From the top, 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	150mA
Absolute hysteresis	1mm
Short-circuit protection	Yes
No-load current	15mA
Magnetic sensitivity	2.8mT
Number of pins	3
Switching frequency	1000Hz
Sensor surface (active)	Middle area
Voltage drop	2V
Reverse polarity protection	Yes
Absolute repeat accuracy	0.1mm
Operating voltage (DC)	10 - 30V

**Mechanical features**

Design	Cuboid
Width	5mm
Height	4.6mm
Cable length	0.3m
Sensor surface position	Center of the device
Length	18mm
Mounting access, cylinder groove	From the top
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**

Cylinder version	With T-groove
Harsh environmental conditions	Yes
Oil and cooling lubricants	Yes
Ambient temperature	-25 - 70°C
Version	For 6.2mm T-slot

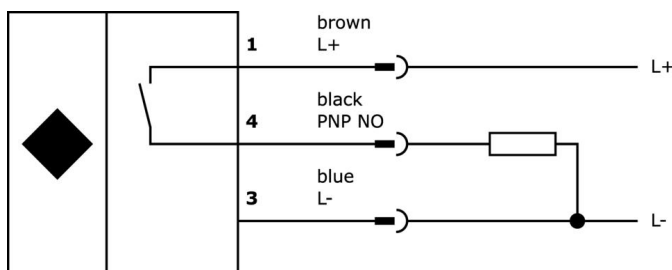
**Classification**

ETIM 8	EC002544 Magnetic proximity switch
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**More**

IPF Product Group	220 pneumatic cylinder sensors
packaging dimensions	120 x 100 x 17 mm
gross weight	20 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

**Connection**



**Installation**



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

**Disposal**



**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.

For suitable connection and mounting accessories, please refer to our website [www.ipf-electronic.com](http://www.ipf-electronic.com).

**Dimensional drawing**

