

## MZA72176

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

Sensor Magnetic, cylinder, 6.2mm T-slot, 4.3x19x6.2mm, 10-30V DC, 1x PNP NO, M8 cable connector 3-pin 0.3m PUR (polyurethane), IP67, zinc diecast, LED, 2.8mT, installation from above, position of sensor surface center of device



For many tasks in automation technology, it is necessary to recognize the movement processes in pneumatic and hydraulic cylinders and to precisely detect the position of the piston. This is where magnetic cylinder sensors are used, which are attached to the cylinders using adapters or directly from the outside.

#### 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
No-load current	15 mA
Magnetic sensitivity	2.8 mT
Number of pins	3
Switching frequency	1000 Hz
Sensor surface (active)	Middle area
Voltage drop	2 V
Absolute repeat accuracy	0.1 mm
Operating voltage (DC)	10 - 30 V
ardSOCA_ElektrischerAnschluss	Cable connector M8 3-pin 0.3m
ardTEEL_Schutzfunktionen	Reverse polarity protection

**Mechanical features**

Design	Cuboid
Width	6.15 mm
Height	4.3 mm
Cable length	0.3 m
Sensor surface position	Center of the device
Length	19 mm
Maximum tightening torque	0.1 Nm
Mounting access, cylinder groove	From the top
Degree of protection (IP)	IP67
Housing material	Zinc die-cast
Material of cable sheath	Kunststoff (PUR)
Ambient temperature	-25 - 70 °C
ardSOCA_Abmessungen	19x6.15x4.3mm
ardTEME_Umgebungsbestaendigkeiten	Öle   Kühlschmiermittel   starke Erschütterungen/ Bewegungen

**Other features**

Suitable for	6.2mm T-slot
Cylinder version	With T-groove
Harsh environmental conditions	Yes

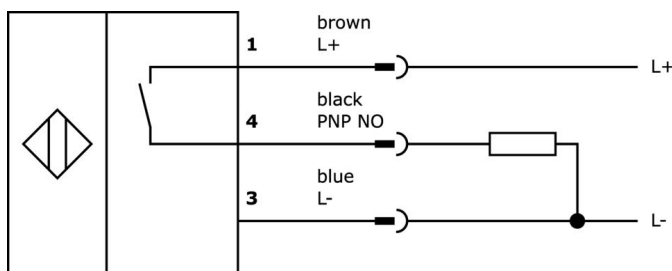
**Classification**

ETIM 8	EC002544 Magnetic proximity switch
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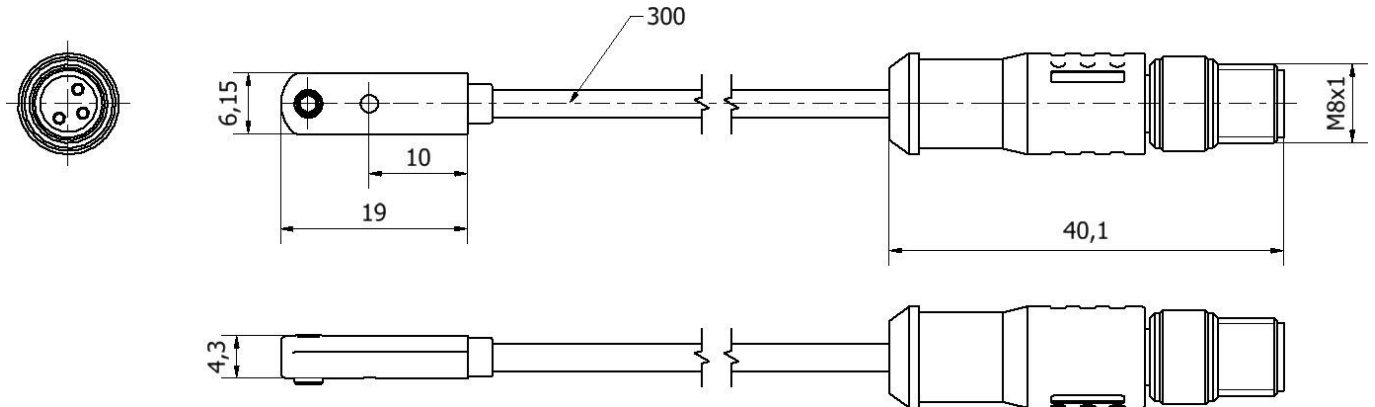
**More**

IPF Product Group	221 pneumatic cylinder sensors (low cost / reed)
packaging dimensions	120 x 100 x 17 mm
gross weight	11 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

**Connection**



**Dimensional drawing**



**Extract accessories program**

**VY000004**



DC power supply, sensor tester, 120x26x72mm, 18V, 0.04A, Spring clamp connection 4pin, IP20, Plastic

**AV000142**



accessories cable socket, Mounting clip, 8.5mm, PPO, Packaging unit 5, Accessories for Cable socket/connector M8

**VY030170**



time stage, Turn-off delay, 0-0.15s, 10-35V DC, 1x NO, M8 3pin 0.3m, IP67, Plastic, Potentiometer

**VY030174**



time stage, Turn-off delay, 0-0.15s, 10-35V DC, 1x NO, M8 3pin 0.3m, IP67, Plastic, Potentiometer

**AM000087**



accessories magnetic, Cable clip, Plastic

**AM98A882**



accessories magnetic, For sensor MZ07, for Cylinder, Bosch profiled barrel, Screw mounting

**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

**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

**VYR90270**



Signal inversion, Ø9mm 32long, 10-35V DC, 1x NC, M8 0.3m, IP67, Aluminum

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.