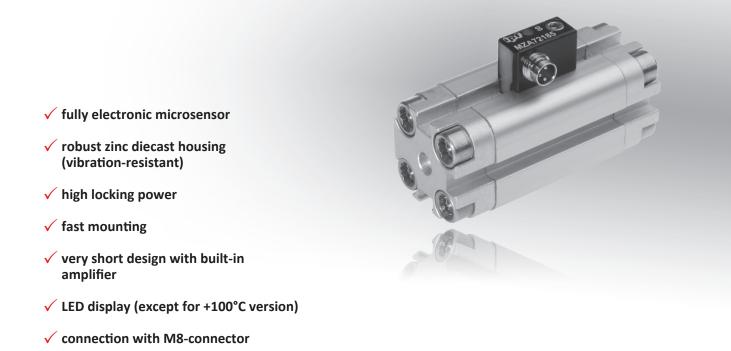


dimensions

9.2 x 16.5 x 20mm

**T**-groove cylinders

sensor surface middle area below the connector





### description

On automatic machines, there is often the requirement that a switching signal must be received at certain piston positions of a pneumatic cylinder. Here, magnetic cylinder sensors are used.

The pistons of the pneumatic cylinders are equipped with a ring magnet. The magnetic field penetrates non-magnetizable materials. As a result, the position of the piston can be detected through the cylinder wall.

For decades, magnetic cylinder sensors from *ipf electronic* have been characterized by outstanding reliability and robustness.

The new devices of the MZA7 series continue this tradition. The housing is made of diecast zinc; the electronics function contactlessly and are thus wear-free. The compound provides the necessary impermeability and protects the circuit board from any possible impacts.

A new fastening mechanism ensures simple installation (can be inserted from above) and, at the same time, a secure hold. 3 different devices are available for selection:

The MZA70175 is suitable for standard applications. The previous devices MZ070175 and MZ070173 can be replaced with this device.

The MZA70155 is designed for elevated ambient temperatures of up to +100°C.

The MZA72185 has a very short travel path.

The devices can be used on all cylinders from leading manufacturers and are directly interchangeable with reed switches that use three-wire system technology. To retain the same position when replacing a cylinder sensor, the locking stop AM000076 is available as an accessory.

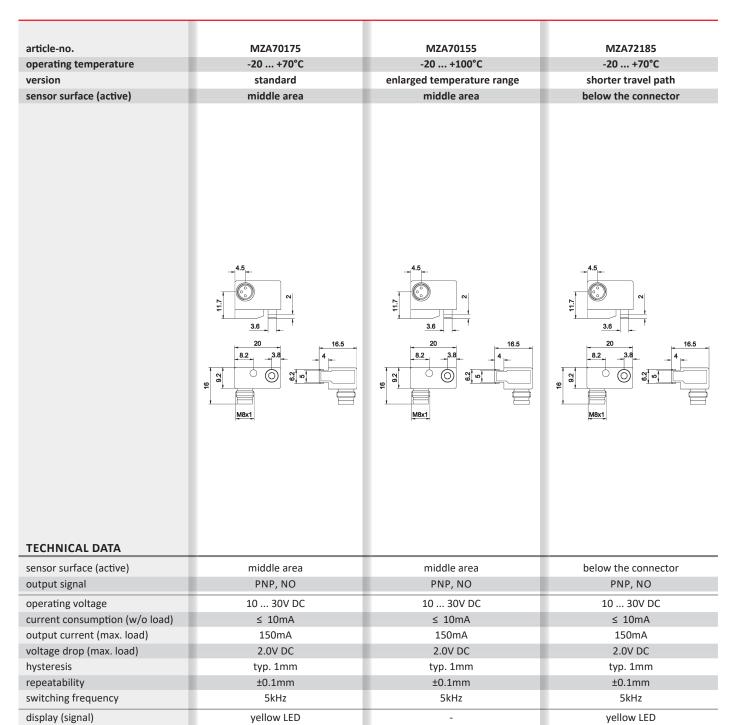
### application examples

- position detection of a cylinder piston
- end position sensing

### **MAGNETIC SENSORS**

**1450 CYLINDER SENSORS** 





+

+

zinc diecast

9.2x16.5x20mm

-25 ... +70°C

IP67

M8-connector, 3-pin

e.g. VK200075

AM000076 positive stop

cable clip AM000087

+

+

zinc diecast

9.2x16.5x20mm

-25 ... +100°C

IP67

M8-connector, 3-pin

e.g. VK200075

AM000076 positive stop

cable clip AM000087

-

+

zinc diecast

9.2x16.5x20mm

-25 ... +70°C

IP67

M8-connector, 3-pin

e.g. VK200075

AM000076 positive stop

cable clip AM000087

short-circuit protection

operating temperature

connection accessories

mounting accessories

degree of protection (EN 60529)

housing material

dimensions

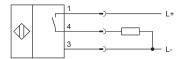
connection

reverse polarity protection



#### connection

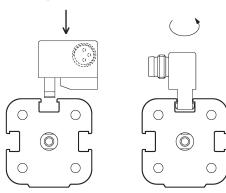
connector device



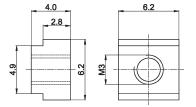
1 = L+, 3 = L-, 4 = PNP NO

wire colors: BN = brown (1), BU = blue (3), BK = black (4)

mounting



#### positive stop with clamp fastening AM000076



#### ACCESSORIES

article-no.	description	material
AM000076	positive stop for T-groove	zinc
AM000087	cable clip for T-groove	plastic

This data sheet contains only the available standard versions. Please contact us for other output and connection versions.

We will be pleased to supply the matching cable socket for your connector devices. Please refer to the list in catalog chapter "accessories" under "cable sockets **ipf**-SENSORFLEX®" or search our website for "VK".

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

This data sheet as well as your personal contact can be found at www.ipf-electronic.com

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# **MAGNETIC SENSORS**

1450 CYLINDER SENSORS



## NOTES

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