

# CE

# **Model Number**

MB-F32-A2-5M

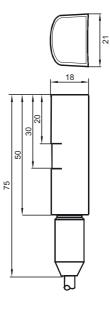
### **Features**

- For hydraulic cylinder
- Zero-contact detection of piston position
- No holes are required in the cylinder •
- Freely positionable .
- Simple, protected attachment .

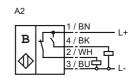
## **Technical Data**

General specifications				
Switching element function		PNP	NO/NC	
Rated operating distance	s <sub>n</sub>			
Installation		on the cylinder		
Output polarity		DC		
Switching range	sb	typ. 50 mm		
Nominal ratings				
Operating voltage	UB	10 30 V		
Reverse polarity protection		reverse polarity protected		
Short-circuit protection		pulsing		
Voltage drop	Ud	≤ 1.5 V		
Operating current	ΙL	0 100 mA		
No-load supply current	lo	≤ 30 mA		
Switching state indicator		LED, red (output 1); LED, yellow (output 2)		
Ambient conditions				
Ambient temperature		-25 85 °C (-13 185 °F)		
Mechanical specifications				
		cable PVC , 5 m		
Core cross-section		0.5 mm <sup>2</sup>		
Housing material		Polyamide (PA)		
Sensing face		Polyamide (PA)		
Degree of protection		IP67		
Compliance with standards and directives				
Standard conformity				
olanda do		EN 60947-5-2:2007 IEC 60947-5-2:2007		

## **Dimensions**



# **Electrical Connection**





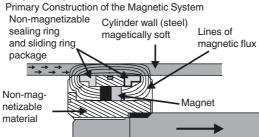
Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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## **Magnetic System**



For this sensor principle it is not sufficient to simply mount the permanent magnet onto the piston. A magnetic system has to be constructed which conducts the magnetic flux of the permanent magnets directlt into the cylinder wall in order to achieve the strongest possible magnetization. For further details regarding the construction of magnetic systems, refer to the manual. A field trial is generally recommended before practical operation!

#### Magnets

The magnets are axially magnetized. It must be ensured that all magnets are mounted with the same polarity!

#### **Definition of polarity**

An approaching permanent magnet with the north pole pointing towards the cable connection of the sensor causes output 1 to respond and the red LED to light.



#### Antivalient output

By means of the sensor's antivalent output stage the appropriate output can be chosen depending on the polarity of the magnetic system or the mounting location of the sensor

#### Mounting

The sensor is mounted directly on the surface towards the cylinder axis. For this purpose, pressure bands, tightening straps, or hose band clamps can be used.

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