



### Model Number

MB-F32-A2-Y126879

### 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
Installation	on the cylinder	
Output polarity	DC	
Switching range	$s_b$	typ. 50 mm

### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V
Reverse polarity protection	reverse polarity protected	
Short-circuit protection	pulsing	
Voltage drop	$U_d$	$\leq 1.5$ V
Operating current	$I_L$	0 ... 100 mA
No-load supply current	$I_0$	$\leq 30$ mA
Switching state indicator	LED, red	

### Ambient conditions

Ambient temperature	-25 ... 85 °C (-13 ... 185 °F)
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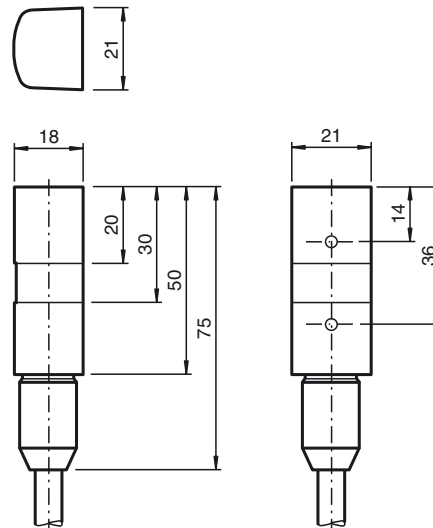
### Mechanical specifications

Connection type	AMP connector with PVC cable, 1.4 m
Core cross-section	0.5 mm <sup>2</sup>
Housing material	Polyamide (PA)
Sensing face	Polyamide (PA)
Degree of protection	IP67

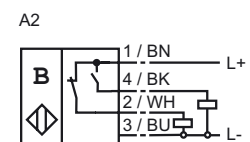
### Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

## Dimensions

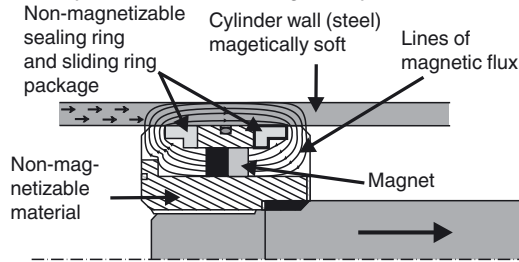


## Electrical Connection



**Magnetic System**

Primary Construction of the Magnetic System



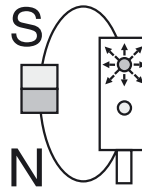
For this sensor principle it is not sufficient to simply mount the permanent magnet onto the piston. A magnetic system has to be constructed which conducts the magnetic flux of the permanent magnets directly into the cylinder wall in order to achieve the strongest possible magnetization. For further 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.



**Antivalent 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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