

dimensions **3.7 x 3.1 x 22mm**
 3.9 x 3.1 x 22mm
 6.5 x 5.0 x 25mm

C-groove cylinder	sensor surface	middle area
T-groove cylinder	sensor surface	middle area



- ✓ fully sunken and (as a result) protected installation in the groove
- ✓ teach-in based setting
- ✓ teach tool included in the delivery package
- ✓ high level of switching accuracy
- ✓ LED switch status display
- ✓ connection via M8-cable connectors

**2 switching points are teachable
can be applied from the top**



description

The new teachable magnetic cylinder sensors from ipf electronic are characterized by two, freely programmable, independent switch points. However, all the electronics are integrated in the sensor housing. The MZ070770 is suitable for installation in profiled T-grooves and the MZR40770 is suitable for profiled C-grooves (Festo). In addition, there is the MZR40771, which is used in the profiled C-grooves of SMC cylinders.

The two switch points can be quickly and conveniently set when installed. This is done without push buttons with the aid of user friendly teaching tools. As such, the unwanted programming of changes is largely avoided, resistance against environmental influences is greatly increased and protection class IP67 is retained.

Carrying out quick electronic alignment when installed has replaced the task of looking for the switch points manually.

Problems with the settings, as a result of indentations in the cylinder housing, belong to the past. Two LEDs on the top side of the sensor carry out the functions of the operating display. They also provide information about the programming status and display error signals. As a result of the integrated EEPROM, the switch points are securely stored, even in the event of power cuts.

applications example

- ▶ installation- and handling technology
- ▶ pneumatic cylinders
- ▶ clamping elements
- ▶ robotics
- ▶ picker arms

article-no.

cylinder

setting

connection

MZ070770

T-groove

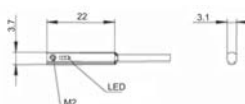
teach-in

M8-cable connector
300mm


MZR40770

C-groove (Festo)

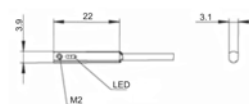
teach-in

M8-cable connector
300mm


MZR40771

C-groove (SMC)

teach-in

M8-cable connector
300mm


TECHNICAL DATA

sensor surface (active)

output signal

middle area

2 x pnp, no

middle area

2 x pnp, no

middle area

2 x pnp, no

operating voltage

output current per switching output (max. load)

magnetic sensitivity

contact travel (depending of magnetic- / air gap)

repeat accuracy

hysteresis

10 ... 30V DC

≤ 25mA

±1.5 ... ±13.5mT

< 50mm

≤ 0.1mT

1 ... 1.35mT

10 ... 30V DC

≤ 25mA

±1.5 ... ±13.5mT

< 50mm

≤ 0.1mT

1 ... 1.35mT

10 ... 30V DC

≤ 25mA

±1.5 ... ±13.5mT

< 50mm

≤ 0.1mT

1 ... 1.35mT

status display

short-circuit protection

reverse polarity protection

+

+

+

+

+

+

+

+

+

dimensions

housing material

operating temperature

system of protection (EN60529)

6.5 x 5.0 x 25mm

aluminium

-25 ... +80°C

IP67

3.7 x 3.1 x 22mm

plastic

-25 ... +80°C

IP67

3.9 x 3.1 x 22mm

plastic

-25 ... +80°C

IP67

connection

connection accessories

M8-connector, 4-pin

e.g. VK200375

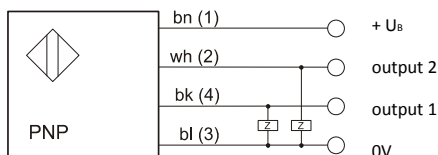
M8-connector, 4-pin

e.g. VK200375

M8-connector, 4-pin

e.g. VK200375

connection


bn = brown (1), wh = white (2), bk = black (4), bl = blue (3)
terminal designation of the cable socket in brackets

Warning:

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