

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

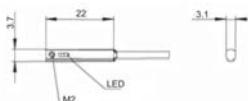
**M8-cable connector
300mm**



MZR40770

C-groove (Festo)
teach-in

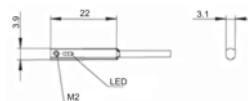
**M8-cable connector
300mm**



MZR40771

C-groove (SMC)
teach-in

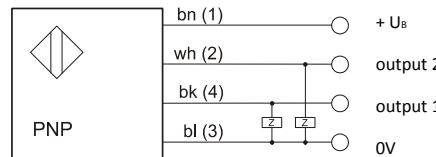
**M8-cable connector
300mm**



TECHNICAL DATA

sensor surface (active)	middle area	middle area	middle area
output signal	2 x pnp, no	2 x pnp, no	2 x pnp, no
operating voltage	10 ... 30V DC	10 ... 30V DC	10 ... 30V DC
output current per switching output (max. load)	≤ 25mA	≤ 25mA	≤ 25mA
magnetic sensitivity	±1.5 ... ±13.5mT	±1.5 ... ±13.5mT	±1.5 ... ±13.5mT
contact travel (depending of magnetic- / air gap)	< 50mm	< 50mm	< 50mm
repeat accuracy	≤ 0.1mT	≤ 0.1mT	≤ 0.1mT
hysteresis	1 ... 1.35mT	1 ... 1.35mT	1 ... 1.35mT
status display	+	+	+
short-circuit protection	+	+	+
reverse polarity protection	+	+	+
dimensions	6.5 x 5.0 x 25mm	3.7 x 3.1 x 22mm	3.9 x 3.1 x 22mm
housing material	aluminium	plastic	plastic
operating temperature	-25 ... +80°C	-25 ... +80°C	-25 ... +80°C
system of protection (EN60529)	IP67	IP67	IP67
connection	M8-connector, 4-pin	M8-connector, 4-pin	M8-connector, 4-pin
connection accessories	e.g. VK200375	e.g. VK200375	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!

