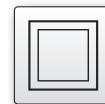


design	6.2 x 6.3 x 30mm 20.2 x 22 x 23mm 17.1 x 16 x 22mm	
T-groove	sensor surface	border area middle area



- ✓ easy mounting
- ✓ high sampling accuracy at low hysteresis
- ✓ integrated amplifier
- ✓ short-circuit and reverse polarity protection
- ✓ high sampling frequency
- ✓ LED display
- ✓ connection with cable, M8- or M12-connector
- ✓ robust metal housing (vibration proof)

**electronic microsensor
shock proof and wear resistant**



description

With automatic machines there is often the requirement to retain a switch signal for certain piston positions of a pneumatic cylinder. For this, magnetic cylinder sensors are used.

These magnetic sensors enable contactless position recognition in the control system in a way which avoids wear and tear.

Magnetic cylinder sensors offer a higher sensing range and at the same time, have a small design.

As magnetic fields penetrate all non-magnetizable materials, the sensor magnets can for example sense through

non-ferrous metal walls, steel walls or aluminium walls.

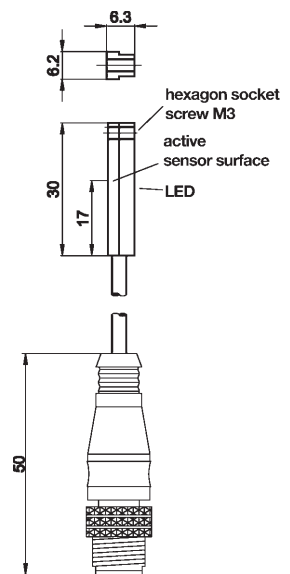
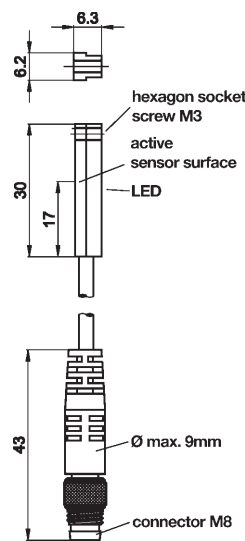
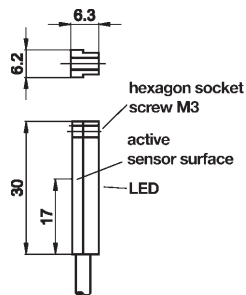
The electronic cylinder sensors can be used on all cylinders made by leading manufacturers (Bosch, Festo, Norgren Martonair, Numatics) and are directly exchangeable against three-wire system technology reed switches.

To keep the same position when exchanging a cylinder sensor the positive stop **AM000076** is offered as an accessory.

application examples

- ▶ detecting the position of a cylinder piston
- ▶ limit of travel enquiry

article-no.	MZ0701A4	MZ070174	MZ070124
connection	2m PUR cable	0.3m M8-cable connector, PUR	0.3m M12-cable connector, PUR
article-no.	-	MZ0701F4	MZ0701E4
connection	-	0.6m M8-cable connector, PUR	0.6m M12-cable connector, PUR
article-no.	-	MZ0701K4	-
connection	-	1.0m M8-cable connector, PUR	-



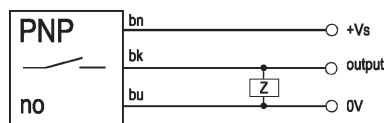
TECHNICAL DATA

sensor surface (active)	middle area	middle area	middle area
output signal	pnp, no	pnp, no	pnp, no
operating voltage	10 ... 30V DC	10 ... 30V DC	10 ... 30V DC
current consumption (w/o load)	≤ 15mA	≤ 15mA	≤ 15mA
output current (max. load)	150mA	150mA	150mA
voltage drop (max. load)	2.0V DC	2.0V DC	2.0V DC
hysteresis	typical 1mm	typical 1mm	typical 1mm
repeatability	±0.1mm	±0.1mm	±0.1mm
sampling frequency	1kHz	1kHz	1kHz
status display	yellow LED	yellow LED	yellow LED
short-circuit protection	+	+	+
reverse polarity protection	+	+	+
housing material	zinc diecast	zinc diecast	zinc diecast
design	6.2x6.3x30mm	6.2x6.3x30mm	6.2x6.3x30mm
operating temperature	-25 ... +75°C	-25 ... +75°C	-25 ... +75°C
system of protection (EN 60529)	IP67	IP67	IP67
connection	2m PUR-cable, 3-wire	M8-connector, 3-pin	M12-connector, 3-pin (assigned)
connection accessories	-	e.g. VK200071, 2m	e.g. VK000021, 2m
mounting accessories	AM000076	AM000076	AM000076

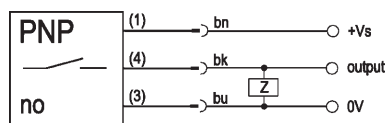
article-no.	MZ070125	MZ070175
connection	M12-connector	M8-connector
TECHNICAL DATA		
sensor surface (active)	border area	border area
output signal	pnp, no	pnp, no
operating voltage	10 ... 30V DC	10 ... 30V DC
current consumption (w/o load)	≤ 15mA	≤ 15mA
output current (max. load)	150mA	150mA
voltage drop (max. load)	2.0V DC	2.0V DC
hysteresis	typical 1mm	typical 1mm
repeatability	±0.1mm	±0.1mm
sampling frequency	1kHz	1kHz
status display	yellow LED	yellow LED
short-circuit protection	+	+
reverse polarity protection	+	+
housing material	zinc diecast	zinc diecast
design	20.2x22x23mm	17.1x16x22mm
operating temperature	-25 ... +75°C	-25 ... +75°C
system of protection (EN 60529)	IP67	IP67
connection	M12-connector, 3-pin (assigned)	M8-connector, 3-pin
connection accessories	e.g. VK200021 , 2m	e.g. VK200071 , 2m
mounting accessories	AM000076	AM000076

connection

cable device

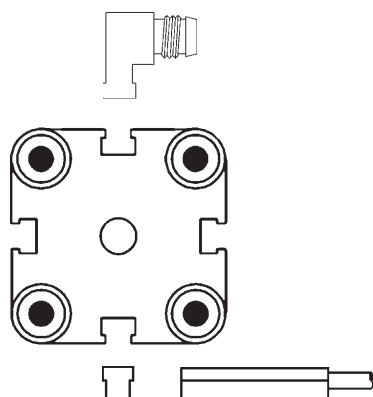


connector device

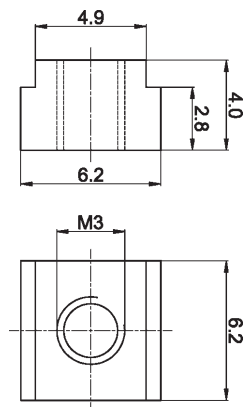


wire colors: bn = brown (1), bu = blue (3), bk = black (4)

mounting



positive stop AM000076



The list of articles contains the standard versions only. Kindly request the availability of other output- and connection functions.

We will be pleased to supply the matching cable socket for your devices with connector. 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.