

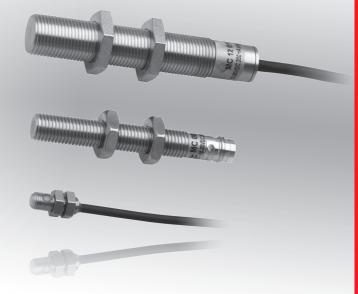


proximity switches 1000

design M5x0.5

M8x1 M12x1

flush sensing range 40mm



- √ stainless steel housing
- ✓ LED display
- √ integrated amplifier
- ✓ short-circuit and reverse polarity protection
- √ devices with thread to EURONORM
- √ high sampling frequency and sensing range
- √ connection with cable, M8- or M12-connector

super small M5x0.5 temperatures up to +130°C











description

In control technology, these magnet sensors serve the task of non-contact and wear-free position recognition. They are used everywhere where inductive proximity switches reach the limits of their usefulness.

Compared with inductive sensors, they offer a significantly higher sensing range.

Even the smallest model, M5x0.5mm, has a 40mm sensing range on the magnet **AM000009**.

With the appropriate type of magnets, even greater sensing ranges can be achieved.

The object to be recognized has to be provided with a magnet, as it is only this that the sensors react to.

As magnet fields penetrate all non-magnetizable materials, the sensors can recognize magnets e.g. through non-ferrous metal walls, stainless steel walls, aluminium walls, plastic walls or wooden walls.

application examples

- position recognition from the exterior through stainless steel pipes
- > speed inquiries in the case of rotating shafts
- position inquiries on chain guides
- inquiries concerning door positions







magnetic sensors

1000 proximity switches



| article-no. connection temperature | MC050176 cable connector -25 +70°C | MC0501A6 cable -25 +70°C | MC080100 cable -25 +70°C | MC080170 M8-connector -25 +70°C |
|---------------------------------------|--|--------------------------------|--------------------------------|---|
| | M5x0.5 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 | M5x0.5 | SW 13 | M8x1 SW 13 |
| TECHNICAL DATA | | | | |
| sensing range * | 40mm | 40mm | 40mm | 40mm |
| output signal | pnp, no | pnp, no | pnp, no | pnp, no |
| operating voltage | 8 30V DC | 8 30V DC | 8 30V DC | 8 30V DC |
| current consumption (w/o load) | ≤ 20mA | ≤ 20mA | ≤ 20mA | ≤ 20mA |
| output current (max. load) | 200mA | 200mA | 200mA | 200mA |
| voltage drop (max. load) | 2.0V DC | 2.0V DC | 2.0V DC | 2.0V DC |
| hysteresis (Sn) real sensing range Sr | 5 15% Sn ±10% | 5 15% Sn ±10% | 5 15% Sn ±10% | 5 15% Sn ±10% |
| sampling frequency | 1kHz | 1kHz | 1kHz | 1kHz |
| status display | yellow LED | yellow LED | yellow LED | yellow LED |
| short-circuit protection | + | + | + | + |
| reverse polarity protection | + | + | + | + |
| housing material | stainless steel | stainless steel | stainless steel | stainless steel |
| design | M5x0.5 | M5x0.5 | M8x1 | M8x1 |
| operating temperature | -25 +70°C | -25 +70°C | -25 +70°C | -25 +70°C |
| system of protection (EN 60529) | IP67 | IP67 | IP67 | IP67 |
| connection | M8-cable connector, 3-pin | cable, 2m, PUR | cable, 2m, PUR | M8-connector, 3-pin |
| connection accessories | e.g. VK200075 , 2m, straight, PUR | - | - | e.g. VK200075 , 2m, straight, PUR |
| * referring to the magnet AM000009 | AY000045 | AY000045 | AY000047 | AY000047 |
| ipf electronic gmbh | Kalver Straße 27 For | n +49 (0) 2351 / 9365-0 | www.ipf.de subject | to alteration! |







proximity switches 1000

| | | proximi | ity switches 1000 |
|--|-----------------------|---|---------------------|
| | | | |
| article-no. | MC120100 | MC120120 | MC120155 |
| connection | cable | M12-connector | cable |
| temperature | -25 +70°C | -25 +70°C | -25 +130°C |
| | M12x1 SW 17 LED 11 | M12x1 SW 17 | M12x1 SW 17 LED |
| TECHNICAL DATA sensing range * output signal | 40mm pnp, no | 40mm pnp, no | 40mm pnp, no |
| | | · · · | |
| operating voltage | 8 30V DC | 8 30V DC | 8 30V DC |
| current consumption (w/o load) | ≤ 20mA | ≤ 20mA | ≤ 20mA |
| output current (max. load) | 200mA | 200mA | 100mA |
| voltage drop (max. load) | 2.0V DC | 2.0V DC | 2.0V DC |
| hysteresis (Sn) | 5 15% | 5 15% | 5 15% |
| real sensing range Sr | Sn ±10% | Sn ±10% | Sn ±10% |
| sampling frequency | 1kHz | 1kHz | 1kHz |
| status display | yellow LED | yellow LED | yellow LED |
| short-circuit protection | + | + | + |
| reverse polarity protection | + | + | + |
| housing material | stainless steel | stainless steel | stainless steel |
| design | M12x1 | M12x1 | M12x1 |
| operating temperature | -25 +70°C | -25 +70°C | -25 +130°C |
| system of protection (EN 60529) | IP67 | IP67 | IP67 |
| connection | cable, 2m, PUR | M12-connector, 3-pin | cable, 2m, silicone |
| connection accessories | - | e.g. VK200025 , 2m, straight, PUR | - |
| mounting accessories | AY000049 | AY000049 | AY000049 |
| * referring to the magnet AM000009 | | | |
| | | | |





magnetic sensors

1000 proximity switches



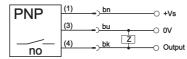
connection

cable device M5, M8, M12



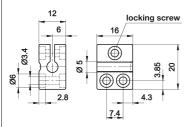
wire colors: bn = brown (1), bu = blue (3), bk = black (4)

connector device M5, M8, M12

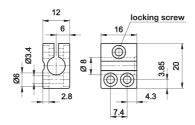


quick clips

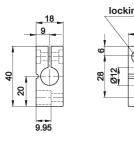
AY000045

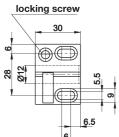


AY000047



AY000049





quick clips with positive stop



| ARTICLE-NO. | DESCRIPTION | DESIGN | NOTES |
|-------------|-------------------------------------|----------------------|-------------------------------|
| AY000045 | quick clip | Ø5mm | PA6 / galvanized steel screws |
| AY000047 | quick clip | Ø8mm | PA6 / galvanized steel screws |
| AY000048 | quick clip with positive stop | Ø8mm | PA6 / galvanized steel screws |
| AY000049 | quick clip | Ø12mm | PA6 / galvanized steel screws |
| AY000050 | quick clip with positive stop | Ø12mm | PA6 / galvanized steel screws |
| AM000001 | accessories, magnet, bariumferrite | Ø20mm / length 6.5mm | bore 4.3mm |
| AM000002 | accessories, magnet, bariumferrite | Ø30mm / length 15mm | bore 5.6mm |
| AM000009 | accessories, magnet, bariumferrite | Ø30mm / length 10mm | can be fastened with adhesive |
| AM000010 | accessories, magnet, plastic jacket | Ø35mm / length 17mm | bore 5.6mm |
| AM000020 | accessories, magnet, neodelta | Ø10mm / length 3mm | can be fastened with adhesive |

This data sheet 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.



