



ipf develops unipolar magnetic sensors

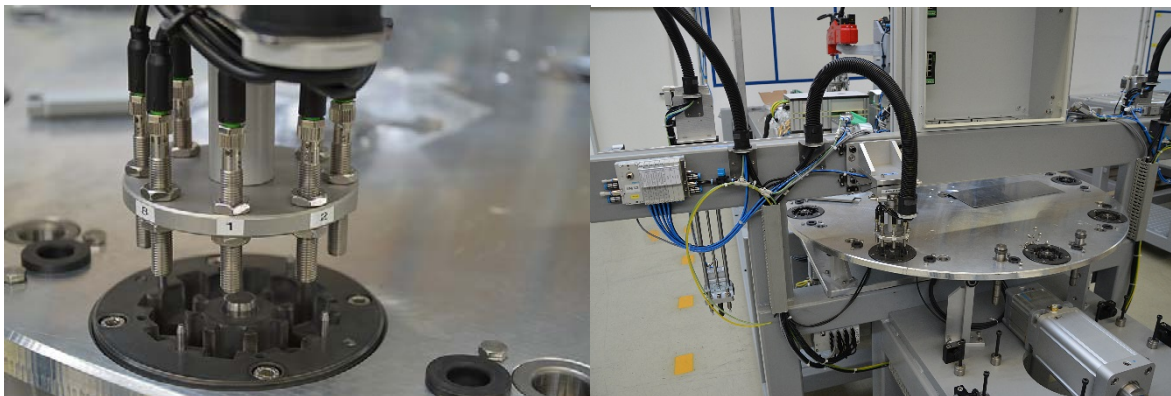
It may happen that clients have to check the alignment or position of permanent magnets, i.e. magnets in the installed state. Exactly for such applications the **MC080180** and **MC080185** from ipf are made.

Both sensors are highly accurate and sturdy, whereby they differ on which magnetic pole they generate a 24V DC switching signal.

Model **MC080180** reacts to a south pole, type **MC080185** signals the detection of a north pole. This function is even ensured if the magnet being queried is located behind a non-magnetic material. A magnetic flux density of $B > 10\text{mT}$ is necessary, so that the sensor is able to respond. Equipped with degree of protection IP67 and a stainless steel sensor surface, the extremely durable sensors can be exposed to oily or damp environmental conditions. An LED is integrated in the 3-pin M8 panel connector that indicates the switching status. Thanks to their compact M8 design and a total length of only 59mm including connector, the devices can be installed even within the smallest spaces. They feature a switching frequency of 500Hz, the operating temperature range extends from -25°C to $+70^{\circ}\text{C}$ and they are both short-circuit proof as well as protected against polarity reversal.

For a customer in Austria, ipf enabled an alignment check for magnets for the automated production of rotors in the field of custom machine construction.

The complete application report is published in the corresponding section of the ipf website: <http://www.ipf-electronic.de/en/products/applications/>



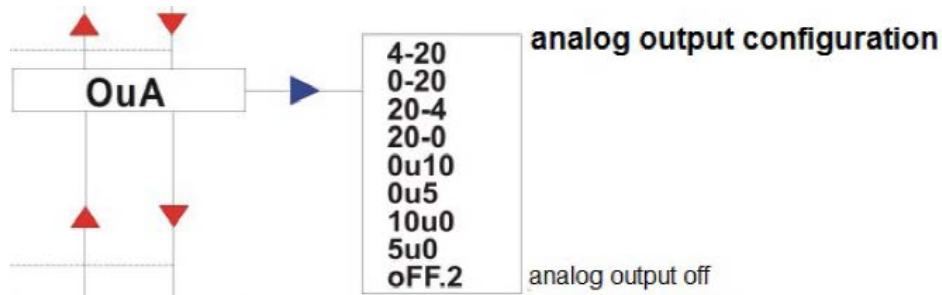
Rotary table with multiple stages



Even more flexibility for the DW34/35/36 pressure sensor series

As a result of many requests from customers for a 0-10V analog output, ipf now offers this option. During configuration, you are able to choose software-wise between 4-20mA and 0-10V.

In detail, the following options are available:



The revised manuals can be found in the download area for the corresponding products.

Laser scanners for building automation and security

These laser-based systems function according to the time of flight principle.

The **PY930900** (Sn 9.9x9.9m) and **PY930905** (Sn 5x5m) offer access protection, respectively detection of persons within the area surrounding automatic industrial doors. Optimal safety is guaranteed by this high-precision technology. As the laser beams on 4 planes provide a dynamic orientation, more safety in the door threshold and its proximity is offered. The devices with category 2 replace current solutions such as contact edges, light beams and lightgrids.

The **PY930908** (Sn 25x25m) is an ideal solution whenever you would like to ensure high levels of detection and security. This competitive device that provides teach-in and plug & play prevents goods and buildings from theft, intrusion and vandalism.





News about magnetic cylinder sensors

Magnetic sensors are very frequently used in industrial systems and in building technology. With the magnetic sensors of the series MZ07 from ipf electronic, it is possible to query the position of piston rods in pneumatic cylinders contactlessly. Although they are often exposed to high mechanical impacts and temperatures, they operate reliably because of their wear-free characteristic. Keep in mind that all MZ-sensors are fully electronic, based on their GMR effect. In addition to the fact that they can be used in various applications, they are easy to mount in the widest range of cylinder types and offer an outstanding price-performance ratio.

Successor model for MZ072187

The **MZ072187** will be replaced by the **MZ072188**. As far as the price and the technical details are concerned, nothing has changed.

Concerning housing and mounting, some changes have to be considered: The sensor is still insertible from above, but must not be twisted in the groove. Instead, it is clamped provisionally with two rubber plates at the cable outlet. The sensor is finally mounted with a hexagon socket screw, which is fixed by means of knurls in the upper part of the T-groove.



ipf introduces M12-connector version

The new **MZ070146** magnetic cylinder switch, which has an M12-connector, is wear-free and applicable up to +130°C.

In addition to the very short design in an aluminum housing, the sensor provides an LED inside the M12-connector. As they feature degree of protection IP67, an operating temperature range from -20°C to +130°C and are both short-circuit proof as well as protected against polarity reversal, they are suitable for use even in the most demanding applications.

