

MOUNTING ACCESSORIES

IPF ELECTRONIC

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High-End in High-Tech.



SCAN QR CODE AND READ FLYER DIGITALLY

FITS, WOBBLES AND HAS AIR...

However, this should definitely not apply to the assembly of sensors, because without reliable sensor technology nothing works in many industrial sectors today, be it in mechanical and plant engineering, in automation, in manufacturing technology, in process technology, in fluid technology and so on and so forth.

Therefore, mounting that is optimally matched to the application is just as important as the sensor itself. After all, an incorrectly mounted sensor can lead to malfunctions and thus significantly impair the proper operation of machines and systems, up to and including longer downtimes with costly production losses.

Although ipf electronic cannot know every single application requirement in detail, we have nevertheless set ourselves the goal in the development of mounting accessories to offer optimal solutions for as many different installation situations and also operating conditions as possible. Our universal mounting systems, for example, are the result of this ambition. They not only provide users with more flexibility, but also save them from costly special designs or time-consuming in-house developments for their sensor mounting.

In addition to the mounting accessories, ipf electronic also offers a range of other solutions, e.g. for the protection of sensors and connection components. And to make the daily practice of professional sensor installation and mounting much easier, we also supply the appropriate tools.

As rich as ipf electronic's range of diverse sensor technologies, so versatile is the selection of practical mounting accessories and more, as the following overview of the entire range of our proven solutions shows.

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REQUIREMENTS FOR MODERN ASSEMBLY SOLUTIONS

Fastening systems should be versatile, reliable and, if required, very resistant as well as robust in order to be able to solve a wealth of different tasks. However, the requirements for practice-oriented mounting solutions are far more multi-layered and complex than just the desire for a solid fastening.

Modern mounting solutions must allow flexible alignment of the devices and at the same time always be stably positioned when the mounting position is reached. Shocks, strong impacts or vibrations are the order of the day in industrial practice. On the other hand, there are applications in which the mounting material must not allow any leeway, because the installation situation of a sensor must be exactly reproduced in order to be able to install the new sensor without readjustment when replacing the device.

Sometimes there is also the wish to use a sensor and mounting solution more flexibly and thus to be able to position it at different locations. Or mounting accessories are needed that protect the devices in a special way, e.g. from the effects of welding spatter.

Other challenges can include other adverse environmental conditions, such as very low or elevated ambient temperatures, chemicals, oils or the use of cleaning agents, which not only demand a great deal of the sensor technology itself, but also of the respective mounting system in terms of durability.

The examples could probably be continued endlessly at this point. Basically, this is an extremely broad catalog of very different requirements that are covered by ipf electronic's extensive range of solutions.

MOUNTING PLUS ADJUSTMENT -MORE FREEDOM DURING MOUNTING

MOUNTING BRACKET

In various designs with slotted holes (e.g. **AO000389**) for sufficient clearance for adjusting the sensor attached to the bracket after mounting.

Many sensors need to be adjusted after mounting so that they are correctly aligned for reliable detection. Our flexible mounting solutions offer extremely diverse options for this.



PRECISION FLANGES/ANGLES

Made of aluminum (e.g. **AP000019/AP000020**) to accommodate a mounting plate connected to a mounting bracket. Three spring-loaded screws integrated in the mounting plate enable high-precision sensor adjustment.

BALL JOINTS

Made of aluminum (e.g. **AY000143**) with plenty of clearance for highly accurate sensor adjustment in all directions. The sensors can be mounted on an adapter plate with a wide variety of mounting angles.

UNIVERSAL HOLDER

(e.g. **AY000117**) make complex and costintensive special designs for sensor mounts superfluous. The multifunctional basic module with ball joint and M6 threaded pin for fastening in a slot stone of an industrial profile enables simple and immovable sensor mounting in any position and orientation.

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MOUNTING PLUS ADJUSTMENT -ONE SYSTEM FOR ALMOST EVERYTHING

The universal mounting system consists of a comprehensive range of field-proven solutions for flexible, simple, accurate and individual mounting of sensors. The modular system is supplied according to customer requirements and is optionally available in a robust case set **AY000173**.

The basis of the mounting system is formed by two aluminum tubes with 12mm diameter (length 200mm and 500mm), which can be individually shortened and stably fixed with a variety of clamp holders (e.g. with the holding magnet **AY000162** for the foot clamp holder **AY000161**).

A special feature: Since the mounting tubes are not roughened on the surface but ground, they have an exactly round shape for an absolutely positive connection with maximum clamping force.

The system is supplemented by a wide range of add-on, parallel and cross-clamp holders, including adjustable versions..



STANDARD MOUNTING -PROVEN IN PRACTICE AND PARTICULARLY VERSATILE

Our range of standard mounts already includes many different solutions covering an extremely wide field of applications for a wide variety of sensor technologies.

Here is just a small excerpt from our range.

HEXAGON NUTS

With various metric thread dimensions and width across flats made of different materials (e.g. **AY000025** made of brass) for optical, inductive, capacitive sensors, laser sensors, magnetic field sensors, temperature sensors, ...



ALUMINUM CLAMPS

For wall mounting with screw fixing (e.g. **AY000010**) for fiber optic, inductive, capacitive, optical sensors, magnetic field sensors, ultrasonic sensors, laser sensors, magnetic displacement and angle measuring systems.



QUICKCUFFS

Without stop made of plastic (e.g. **AY000049** for sensors with 12mm diameter) for optical, inductive, capacitive sensors, laser sensors, magnetic field sensors, temperature sensors, ...

ACCESSORIES ROTARY ENCODERS

Spring arm (e.g. AV000146) for the use of measuring wheels AV000043 for the acquisition of position or number of revolutions in connection with a rotary encoder.





Our fasteners with positioning enable sensor mounting in a mounting position specified by the respective accessory, e.g. by a defined fixed stop. The mounting material thus always clearly reflects the desired device positioning. The decisive advantage: When replacing the sensor, the device does not have to be repositioned.



MOUNTING WITH POSITIONING -ALWAYS UNAMBIGUOUS, WITHOUT FUSS OR QUIBBLE.

QUICKCUFFS

With fixed stop made of plastic for wall mounting with screw fastening (e.g. **AY000050**). The sensor is pushed from one side into the hole provided for this purpose up to the fixed stop and is thus in the intended position.

CLIMATE HOUSES

With fixed stop and internal holes in various diameters (e.g. **AY000155** made of brass with 8mm internal hole). With two nuts, the sleeve can be integrated into a mounting plate, for example. The mounting screw ensures a secure clamping of the sensor.

SCREW-IN SLEEVES

In stainless steel V4A, pressure resistant up to 100bar, with compression fitting for media temperatures from -40°C to +350°C for mounting thermocouples (resistance thermometer).

MOUNTING FOR CYLINDER SENSORS -RELIABLE ACCESSORIES FOR SPECIAL APPLICATIONS Cylinder sensors are used for sensing the piston rod position in pneumatic cylinders. Our cylinder sensors prove themselves anew every day in many industrial sectors, including in particularly demanding environments. Reliable, robust mounting is, of course, part of the package for us.



Made of stainless steel with different spans (e.g. **AM000061**) for our cylinder sensors **MZ13** and **MZ07**.



ROUND CYLINDER-FASTENINGS

Specially developed for mounting our cylinder sensors on round cylinders with different diameters: Mounting clamps (e.g. AM000012 or AM000038), mounting bands (e.g. AM000030).







PROFILE CYLINDER-FASTENINGS

Specially developed for mounting our cylinder sensors on various profile cylinders, e.g. mounting clamps made of zinc (e.g. **AM000005**) or aluminum (e.g. **AM000073**).



TIE RODS FASTENERS

Specially developed for mounting our cylinder sensors MZ07 on pneumatic cylinders with tie rod, e.g. mounting clamps made of aluminum (AM000071).





AND MORE...

Clamps (**AM000076**), Adapters (e.g. **AM000081, AM000036**)

COMPREHENSIVE PROTEC-TION IN ANY SITUATION

Adverse or particularly harsh environmental conditions, e.g. dust, dirt, high or low temperatures, humidity, etc., can be extremely hard on the sensors and the connection components. The right protection in the right place ensures reliable and, above all, long-lasting operation of the sensor solution in any situation.

RECESSED HOUSING/ SURFACE MOUNT HOUSING

(e.g. **AV000108**) with cable entries in robust industrial design (impact-resistant plastic) in protection class IP66 for a wide operating temperature range from -40°C to +120°C.



TEFLON CAPS

With internal thread (e.g. **AY98A607**) protect the active surface of **inductive or magnetic field sensors** from potentially damaging external influences, e.g. from weld spatter.





AIR PURGE EQUIPMENT

Made of metal (e.g. **AO000095**) for optical sensors, especially in applications with high dirt loads. The attachments with compressed air connection always keep the optics of the sensors free of dust and dirt deposits..



TOP PANELS

Made of plastic with glass insert (e.g. **AO000297**) as heat or thermal protection for the sensor optics.



MECHANICAL STOPS

(e.g. **AY000064**) as metal top adapters for inductive sensors, with which robust small interrogations can be realized in a simple and reliable way. The limited stroke of the steel bolt prevents "hitting" the active sensor surface and thus damaging the detector coil. The stops convince with a very high reproducibility and switching point accuracy.

PROTECTIVE HOSES

(e.g. **AY000141**) made of glass fiber with silicone rubber, designed for ambient temperatures from -40°C to +250°C, for versatile use on cables. The protective hose is resistant to welding spatter up to +1200°C for a short time and has a tensile strength up to 400N.

MORE FLEXIBILITY IN ANY POSITION

Our versatile mounting solutions convince with their wide range of applications. With our special mounts we also provide even more flexibility.

HOLDING MAGNETS

(e.g. **AY000129**) are ideal for the mobile attachment of sensors, camera systems and LED articulated arm and gooseneck lights, for example. The holding magnets enable simple and variable, and thus always flexible, attachment of universal mounts, for example, to any ferromagnetic surface with high holding force..



TABLE CLAMPS

(e.g. **AE000022**) made of robust steel for flexible mounting of our LED articulated arm and gooseneck lights. So that the light is always exactly where you need it.

TRIPODS

(e.g. **AO000579**) made of aluminum for flexible positioning of our high-speed cameras **OC29** for monitoring high-speed industrial processes in various applications.



We have developed special mounts for our camera auxiliary lights so that the light is always exactly where it should be during image processing.







ALWAYS PERFECTLY ILLUMINATED

MOUNTING BRACKET

(e.g. **AO000653** and **AO000654**) made of aluminum for our ring lights (diameter 130mm) and dark field lights **EF750xxx**.

FLEXIBLE MOUNTING

(e.g. our universal mounting system case set AY000173) for the spotlights of the series ES46xxx.

MOUNTING SYSTEM

(e.g. the holders **AE000007/AE000008** with adapter **AE000009**) made of aluminum for mounting and aligning the lighting and camera sensor.

SIMPLY RELIABLE FOR PRESSURE SENSORS

Our robust and precise Pressure sensors are mainly used in pneumatic and hydraulic applications. The solutions are highly valued in many industrial applications because they are easy to operate and always provide reliable measured values. Simply reliable - like our mounting solutions.

ADAPTER

(e.g. **AD000017** and **AD000018**) made of stainless steel for our Pressure sensors of the **DW35** series with G1/4" process connection.



MOUNTING BRACKET

(e.g. **AD000015** Mounting bracket with pushin adapter) for screw mounting of our pressure switches of the **DW16** series and pressure transmitters of the **DT16** series.



QUICKCUFFS

(e.g. **AD000014**) made of plastic for screw mounting of our pressure transmitters series **DT16** and pressure switches series **DW16**.





If you don't have the right tools at hand for mounting and installation, you lose a lot of time and often also patience. This does not have to be the case, because with our tools around the professional sensor installation and mounting, the work simply becomes easier.









TOOLS SIMPLE, INSTEAD OF HEAVY AND COMPLICATED

TORQUE LOCKS

(AV000140) for defined tightening of hexagonal screw connections on connectors or for secure fastening of connecting cables on field distributors. Optimum tightening torque ensures a permanently tight connection and protects against material damage and expensive reworking. Set consisting of: Torque wrench, setting tool and key inserts with 9mm wrench width (M8 cable connectors/sockets) and 13mm wrench width (M12 cable connectors/sockets).

MULTI-TOOLS

(AY000154) fit in any pocket. A total of eight tools, including Allen keys for mounting our cylinder sensors and mini screwdrivers for adjusting potentiometers on sensors. The Allen keys with 2.5mm and 0.7mm are also usually missing in other tool sets.

STRIPPING PLIERS

(e.g. **AV000132**) for particularly robust and durable connection cables, e.g. made of PUR or silicone, whose cable sheaths cannot always be stripped easily with **conventional** tools. With our stripping pliers for sheath thicknesses between 3.2mm and 4.4mm or 4.4mm to 7mm, this is done in one easy step: Insert the cable for the desired section length into the pliers, set down the sheath and pull it off the cable, done!

AND MUCH MORE...

(e.g. mini slot screwdriver (**AY000070**) for easy and exact adjustment of potentiometers on various sensors. Or **our** fiber cutter (**AL000007**) for the precise and clean cutting of light cables.



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