



perfect in sensors.

# The new solution for hydraulic cylinders

## posichron<sup>®</sup> EasyMount

Magnetostrictive position sensors  
for external mounting on hydraulic cylinders



Displacement



Angle



Inclination



# posichron® EasyMount

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## Curious about a new, innovative sensor solution for hydraulic cylinders?

You probably know it: The displacement sensors in the hydraulic cylinders you use have served their purpose without any problems for many thousands of operating hours. And suddenly - standstill! Nothing works anymore, the sensor is defective, the machine is stopped.

What follows is cost-intensive and time-consuming maintenance work. The removal of hydraulic cylinders and complete sensors, complex repair work, reinstallation and recalibration are all factors that every operator wants to keep as manageable as possible for reasons of time and cost. Not to be neglected are the costs that have already been incurred during sensor installation by drilling through the piston rod - because this is necessary for internally installed sensors.

ASM now presents a new non-contact and wear-free sensor solution that significantly simplifies installation, maintenance and repair and thus saves time and money. With this new concept, only the sensor magnet is installed inside the hydraulic cylinder.

The sensor itself from the proven and robust posichron® sensor family is mounted on the outside of the hydraulic cylinder. Only the external and therefore easily accessible sensor is repaired or replaced if necessary.

Browse further and find out more about

- how the new sensor solution works in detail
- what other advantages this innovative concept offers
- which product variants are available

For further questions, please contact our sensor specialists at any time. Contact details can be found on the last cover page of this brochure.

## The technology of posichron® EasyMount at a glance:

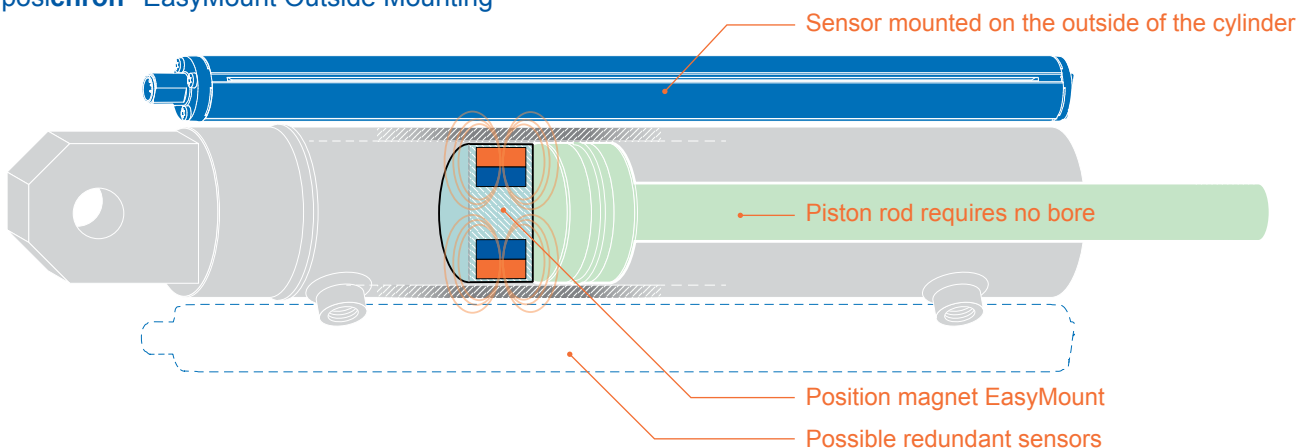
posichron® sensors measure linear positions absolutely, contact-free and wear-free. Due to their robustness and high shock resistance, they are predestined for use under harsh environmental conditions. The availability in different designs makes this sensor family versatile.

The new solution developed by our engineers makes the posichron® system for hydraulic cylinder applications even more variable: Due to the new, strong magnet fixed in the cylinder, the sensor can be mounted on the outside of the hydraulic cylinder instead of inside the cylinder as usual.

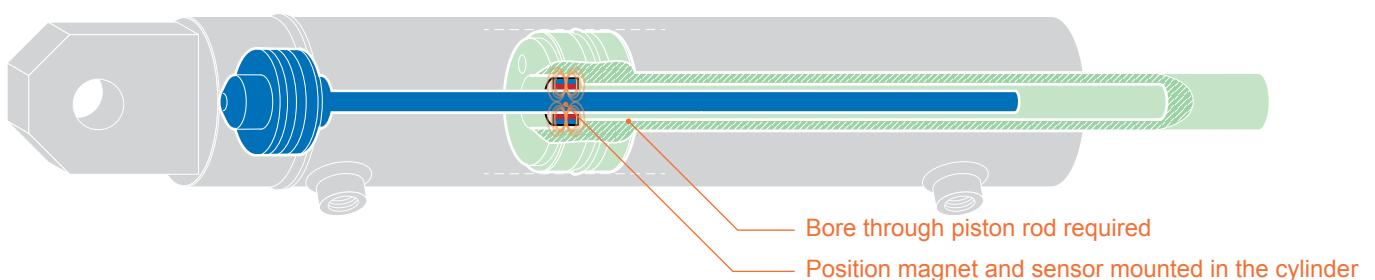
In particular, large measuring lengths and pistons with small diameters can now be realized much more cost-effectively or even at all - the time-consuming and costly drilling of the piston rod to accommodate the sensor is no longer necessary. In case of maintenance or repair, the sensor is easily accessible from the outside.

Regardless of whether you want the new solution with an internal magnet and an externally mounted sensor or prefer the classic posichron® version - you get a mature and reliable technology.

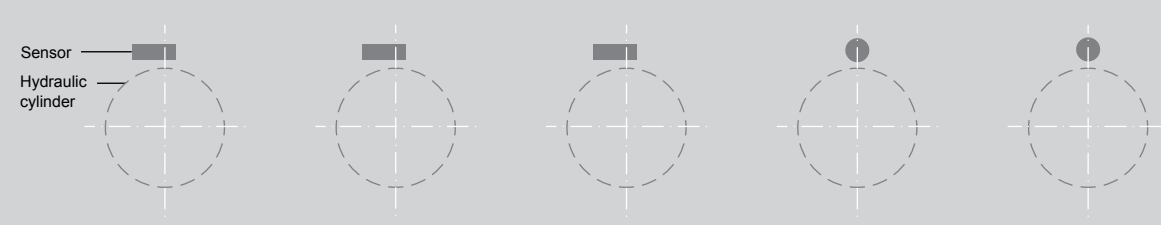
### posichron® EasyMount Outside Mounting



### posichron® Interior Mounting



## Selection guide posichron® sensors for EasyMount

	PCFP23	PCFP24	PCFP25	PCRP21	PCRP32
<b>Applications</b>		Tight mounting spaces		Standard industrial applications	Underwater
<b>Profile cross-section</b>	36 x 13 mm	43 x 12 mm	28 x 8 mm	Ø 25 mm	Ø 28 mm
					
<b>Protection class</b>	IP64	IP67 optional IP67/69 <sup>1)</sup>	IP64 optional IP67	IP64	IP68/69 <sup>1)</sup>

<sup>1)</sup> = with IP69 connector

## Specifications posichron® sensors for EasyMount

<b>Measurement range</b>	100 ... 5,750 mm
<b>Housing material</b>	AlMgSi1 / Zn / V4A
<b>Resolution</b>	Analogue: 16 Bit f.s., min. 10 µm SSI: 5, 10, 20, 50, 100 µm CAN-Bus: 50 µm
<b>Linearity</b>	L10 (±0,10 % f.s.)
<b>Repeatability</b>	±3 µm
<b>Output</b>	Voltage 0 ... 10 V, 0.5 ... 10V, 0.5 ... 4.5V Current 4 ... 20 mA, 3 wire Voltage or current output, programmable (PMU) Synchronous-serial (SSI) CANopen-Bus, SAE J1939
<b>Temperature range</b>	-40 ... +85°C

## The advantages of posichron® EasyMount at a glance:

- Easy sensor installation due to external mounting
- No deep hole drilling necessary
- Easy maintenance and repair
- Redundant sensor assembly possible (up to 4-fold)
- Measuring lengths up to 5,750 mm
- Installation in synchronous cylinder possible

## Applications

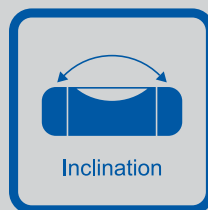
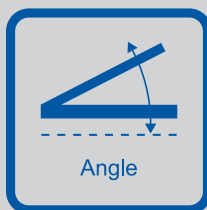
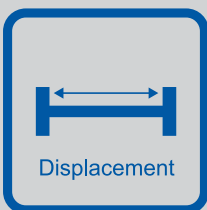
The posichron® EasyMount sensor solution is suitable for many hydraulic cylinder applications. In particular, posichron® EasyMount is also suitable for thin pistons where there is no space for sensor internal mounting and for long pistons where a through-hole with sensor internal mounting causes high costs.

Well protected against shocks, vibrations, moisture and dirt, posichron® sensors are generally the solution for demanding and harsh operating conditions.



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[www.asm-sensor.com](http://www.asm-sensor.com)



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