

# KEEPING TRACK

## SENSORS FOR

- Displacement
- Angle
- Inclination
- Acceleration
- Vibration
- Pressure
- Temperature
- Flow
- Level



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## DISPLACEMENT SENSORS

Inductive/magnetostrictive

The inductive displacement sensors operate wear-free according to the inductive half bridge principle. Different mechanical variants are available, e.g. with gauge or ball joint, cable or plug output.

Stroke up to 1,500 mm  
Integrated or external electronics  
Programmable



## SLOT TRANSDUCER

Stroke up to 20 mm  
Calibrated electronics



## SENSORS

With return spring/bellows

Stroke up to 100 mm  
Housing ø 10 to 25 mm  
Integrated or external electronics



## ELECTRONIC MODULES

The modules incorporate all electronics for the operation of inductive displacement and angle sensors (stable oscillator, demodulator and amplifier).

With in house ASIC, current or voltage output,  
1 or 2 channels, PCB, standard DIN rails or die cast aluminum housing.

## MODULAR DESIGN

For fast and cost-effective development and manufacture of customized displacement sensors.

Displacement sensor components:  
Stainless steel housing  
Screening and electronics  
Precision coil  
Rust-proof plunger





## PRESSURE SENSORS

The pressure sensors have thick-film ceramic measuring cells. High reliability and reproducibility along with a compact and sturdy design make these devices ideal for series application.

## ANGLE SENSORS

Measuring angle up to 120°  
Housing  $\varnothing$  36 to 62 mm  
Integrated or external electronics



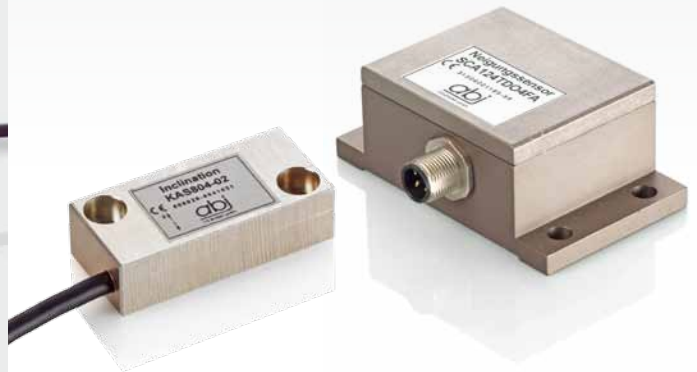
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## INCLINATION SENSORS ...

... also suitable for acceleration and vibration

These capacitive measuring elements are highly accurate and impact-resistant. This is achieved by special MEMS technology using high-purity silicon. These sensors can withstand the hardest impacts without drift due to deformation of the test mass.



## INDUCTIVE SENSORS

SM34 series inductive sensors have a housing diameter of only 10 mm, integrated electronics and output signals from 0 to 10 VDC or 4 to 20 mA in a two-wire system. They detect displacements of 5, 10, 15 or 20 mm.

## NON-STANDARD TYPES

Cost-effective manufacture of customized types

## ACCELERATION SENSORS

As an industrial acceleration sensor, the ABJ-420S is ideal for use in confined spaces and hard to reach installation sites. Due to its compact design, the degree of protection IP68, measuring range up to 100 g and cost-effectiveness, the ABJ-420S can be used efficiently with 4–20 mA signal converters.

# ROBUST AND SENSITIVE

## STANDARD RANGE OF DISPLACEMENT AND ANGLE SENSORS

SERIES	TYPE	STROKE	ELECTRONICS	REMARKS
SM 20/21/22	ø 8/ø 10 mm	up to 20 mm	external	miniature type
SM 24	M 12 x 1	up to 15 mm	external	housing M 12 x 1
SM 26	ø 12 mm	up to 200 mm	external	available as gauge type
SM 263	ø 12 mm	up to 200 mm	integrated	two-wire system
SM 30/31	M 30 x 1,5	up to 15 mm	integrated/programmable	housing M 30 x 1,5
SM 32/33	25 x 25 mm	up to 15 mm	integrated/programmable	aluminium housing
SM 34	ø 8/ø 10 mm	up to 20 mm	integrated	available in two-wire system
SM 40/41	ø 25 mm	up to 200 mm	integrated/programmable	standard displacement sensor
SM 42/43	ø 25 mm	up to 360 mm	integrated/programmable	optimised displacement sensor
SM 44	30 x 30 mm	up to 200 mm	integrated	robust stainless steel housing
SM 48	80 x 60 x 26,5 mm	up to 20 mm	integrated	pass through measuring tag
SM 60/61/62	ø 36,5 mm / ø 58 mm	up to 120°	external/integrated	compact
SM 70	ø 10/SW 41	up to 1500 mm	integrated	magnetostrictive/pressure-proof

## STANDARD RANGE OF INCLINATION, ACCELERATION AND VIBRATION SENSORS

SERIES	MEASURING RANGE	MEASURING AXES	OUTPUT SIGNAL	CONNECTION
KAS9xx	± 15° to ± 90° ± 0,259 g to ± 18 g	X / Y or Z	0,5 ... 4,5 V	1 m cable or M8
KAS2xx	± 1,5° to ± 90° ± 0,026 g to ± 18 g	X / Y	4 ... 20 mA	M12 or cable
KAS100x	± 15° to ± 180°	X / Y	digital	M12 or cable

**SCHREIBER**  
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