

## Fast Facts

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### SIMPSpad

The AB proprietary technology SIMPSpad is suitable for linear magneto-inductive position sensing specifically for automotive applications.

#### Market segments

SIMPSpad magneto-inductive sensor technology is ideal for the demanding requirements of position sensors in

- Transmission
- Brake cylinders
- Shock absorbers
- Hydraulic cylinders
- Oil and fuel systems

#### Typical features and benefits

- Fast and accurate position measurement through non-ferro-magnetic materials as well as through water, oil and plastic
- Direct placement onto non-ferrous metal possible or sensor can be mounted directly onto metal
- Flexible magnet orientation, perpendicular to direction of motion is preferred
- Low building height

#### Design freedom and advantages

- Contactless, absolute position sensor
- Ability to sense through non-ferromagnetic metals, as well as water, oil and plastic
- Can be mounted directly on non-ferromagnetic metals
- Magnet-PAD separations > 10 mm possible
- Robust to variation in magnet-PAD spacing
- Can be designed for any magnet orientation, although magnet field perpendicular to direction of motion is preferred
- Simple and robust mechanic construction of the sensor
- Automotive ASIC available
- Various outputs (analogue / digital) feasible
- Good immunity to external electromagnetic fields
- Dual channel operation possible with one magnet and complete galvanic separation of channels
- Considerable flexibility in sensor design to achieve a low and compact space envelope



Find more information on our website: [www.abelektronik.com/SIMPSpad](http://www.abelektronik.com/SIMPSpad)

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#### General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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