Fast Facts

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 linear 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

General Note This Fast Fact does not give any information on product availability. The information given is just meant to describe the product and is not to be considered as guaranteed characteristics in the legal sense. All products are subject to design changes in the interest of further technical development.