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**INNOVATIONS
AND TRENDS**

Low-jitter multi-channel hall-effect speed sensors with galvanic insulation



Multi-channel hall effect speed sensors with galvanic insulation

The multi-channel hall-effect speed sensor is available for 3-channel and 4-channel railway applications. The multi-channel speed sensor family (DSD 25) comprises of two galvanic separated circuits, each having up to two phase shifted square wave signals proportional to the rotary speed. They have three or four independent sensing elements consisting of magnetic biased differential hall-effect semiconductors with static behaviour (frequency down to 0 Hz). This lowers jitter and static characteristics that are extremely important for modern propulsion control systems. The versatility of these sensors means one can create different combinations for applications such as propulsion control, wheel slip protection (WSP) and signalling (ATP, ATC, TPWS, ECTS, CBTC). This can be a cost effective solution as applications can be combined for retrofit and upgrade cases.

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Subject to further change