

Correvit[®] S-350D: 2-Axis Speed Sensor with Direction Detection

Corrsys-Datron is extending the proven Correvit S-350 sensor series to include a new sensor with direction detection. The new Correvit S-350D sensor is capable of detecting driving direction – forward or backward – throughout the entire speed range. This makes it ideally suited for applications such as parking maneuvers or tests with utility vehicles, e.g. forklift trucks. The changes in direction are displayed via CAN bus as well as the analog and digital output.



Fig. 1: Corrsys-Datron Correvit[®] S-350D sensor with electronics and optional gyro

Technical Data

Speed range	0,5 ... 250 km/h
Angle range	±30°
Angle resolution	<±0,1
CAN Bus	2.0B
USB (full speed)	2.0
Analog/digital outputs	yes
Measurement frequency	250 Hz

Applications

High-precision slip-free measurement of distance, speed (longitudinal/transversal) and angle for dynamic vehicle testing including steady-state circular-course driving (ISO 4138).

Forward/backward detection provides additional information for longitudinal testing, e.g. coasting tests, testing forklift trucks, or examination of vehicle braking behavior.

Naturally, the new S-350D sensor comes with all the beneficial features of the established Correvit S-350 sensors:

- Excellent accuracy on all track surfaces, even under the most challenging environmental conditions
- Lightweight design for easy handling
- Measurement frequency of 250 Hz
- High-quality optics with the newest optoelectronic components and high-performance signal processing based on DSP and FPGA
- Durable technology ensures negligible service and maintenance requirements

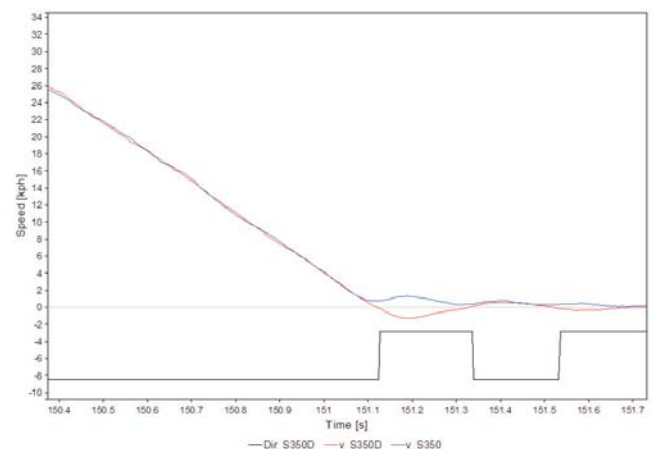


Fig. 2: Braking with vehicle swinging back; S-350D sensor (red) compared with a customary sensor of the S-350 series (blue)

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