



OptoSpeed

Optical Sensor for true ground speed measurement



OptoSpeed is a optical Sensor for precise non-contact measurement of low true ground speed regardless of wheel / drive slip. Ground distance has to be configured. Precision measurement starting at 0.01 km/h to 20.0 km/h.

Applications e.g.:

- in-door vehicles
- slow mobile machines
- autonomous vehicles

OptoSpeed is a optical Sensor for measurement of true ground speed of vehicles, machines or objects moving relative to the Sensor.

The forward speed of e.g. an indoor transportation vehicle, fork lift, conveyor belt, off-highway vehicle and rail applications is measured contactless thus unsusceptible to wheel / drive slip and effective tyre circumference. Direction of movement is measured.

The sensor is built in a small, rugged sealed casing.

Benefits

- Precise measurement of the true ground speed independent on wheel slip and effective tyre circumference
- High dynamics for monitoring, control and closed-loop control
- Movement in X and Y Axis direction is measured.

Technical data:

Power supply:	9 to 28 V DC
Current consumption:	< 200 mA
Temperature range:	Storage: -40 °C to +85 °C Operation: 0 °C to +60 °C
Output signal:	Quadratur Encoder 5000 Pulses / m (1388.89 Hz km-1 h-1) differential output and RS-232
Dynamics:	10 Hz Update Rate
Speed range:	0.01 km/h up to 20 km/h (100mm distance to Ground)
Dimensions:	73.5 mm x 60 mm x 22.5 mm (LxWxH, less cable)
Connector:	DIN M12 male plug 12 Pos.
Mounting:	Base plate parallel to Ground, Distance 50 to 400 mm
Warranty:	2 Years
Environmental protection:	IP6KX, IPX7, IPX8 acc. to ISO 20653

Available from:



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