



SPEEDWAGON

Non-Contact optical speed measurement

- Contactless detection
- Incremental encoder and programmable trigger in one
- > No Slip
- > Plug & Play Play



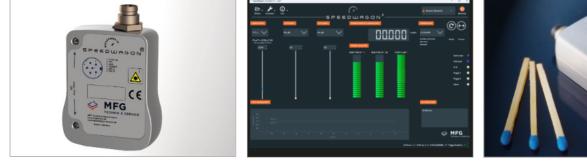


Further information are available on our Website: **www.speedwagon-sensors.com**

Non-Contact optical speed measurement

The innovation for your production - simple and universal!

Speedwagon measures the speeds of moving tracks and piece goods in order to monitor, control and regulate production systems. The big advantage: The measurement is non-contact, purely optical, without mechanical components and therefore slip-free. In contrast to measuring wheels and other mechanical processes, Speedwagon achieves greater measuring accuracy and does not damage the material due to mechanical stress. In addition, the system is also able to take on a trigger function, i.e. to output a start pulse, e.g. for marking devices, as soon as a previously defined increment value has been reached. Speedwagon is suitable for almost all materials and surfaces - even for reflective and smooth glass surfaces. Operation is intuitive.



User friendly: Simple process integration an programming

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Technical Details

Optical Data	
Measuring distance	15 60 mm
Wave length	850 nm

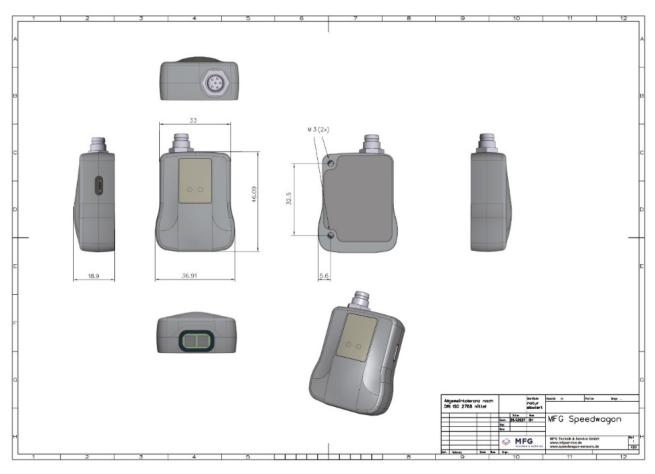
Electric Data		
Supply voltage	5 32 V	
Power consumption	100 mA	
Sampling rate	0,9 ms	
Response time	3,6 ms	
Temperature range	-10 60 °C	
Analog Output encoder	HTL / TTL 10nF/150kHZ	
Wave length	850 nm	
Accuracy	+/- 0,3 % **	
Speed	< 0,5 135 m/min. 2.250 mm/sec ***	
Acceleration	< 8 g	
Output trigger	PNP / NPN / push-pull	
Output Error	PNP	
Protection Class	III	

Mechanical Data		
Housing material	Aluminium	
Full encapsulation	Yes	
Protection class	IP67, on the housing side with installed connector	
Connection type	Connector M8, 6 Pin	
Programming port	Micro-USB	

Miscellaneous	
Software	Speedwagon Connect
Optional accessories	Mounting brackets. Signal connection cable. Programming cable

*) This product is a standard product and not a safety component in the sense of the Machinery Directive. Calculation based on the nominal load of the components. average ambient temperature 2s · c. Frequency of use 8760 h / a. All electronic failures are considered dangerous failures.
**) Error limit for the systematic measurement error according to DIN 1319-1: 1995. Valid between 1 m / min ... 120 m / min. Till 40 m/min the deviation will be lower. Regular adjustment required.
**) Depending on the material, this value is better or worse. Top speed is of shining metallic surfaces to be expected and the lowest maximum speed with white-matt paper.





Dimensions: HousingSpeedwagon

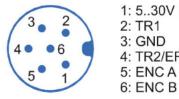


Illustration: Pin Assignment





GERMANY



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