***CORRail 1000***



As wheel-slip influenced measurement technologies show non-negligible systematic measurement errors, they do not meet today’s technology demands.

Microwave- and Radar sensors, as well as GPS sensors have to deal with different external influences and quickly reach their limit.

For the first time, the Hasler® CORRail 1000 sensor offers a contact-less, track-bed independent, direct measurement of a rail vehicle’s speed and operating direction, using the railhead as a reference.

In order to work even in harshest environments, particular care was taken to ensure robustness as well as easy maintenance and care.

As an illumination source, robust high-power infrared LED are used. To increase operational safety, an optical channel indicates soiling on the front glass which can also be replaced easily in case of a damage.

Therefore, the Hasler® CORRail 1000 Sensor meets all demands for an objective, reproducible measurement of a railway vehicle's longitudinal dynamics in the fields of:

* Drive Systems (slip-free measurement of speed, acceleration, wheel slip)
* Measurement of braking distance
* Navigation / positioning

The Hasler® CORRail 1000 Sensor at a glance:

* Track independent, highly dynamic direct measurement
* Speed range 0.2 ... 400 km/h
* Reliable data acquisition during braking and coasting to standstill
* Standstill detection (< 0.2 km/h)
* Direction detection
* Extremely robust design for sensor mounting on the bogie
* Illumination by robust and extremely long-life, high-power, infrared LED
* Optical soiling detection in %-steps for highest functional reliability
* Programmable analogue and digital standard outputs
* Low maintenance and service costs

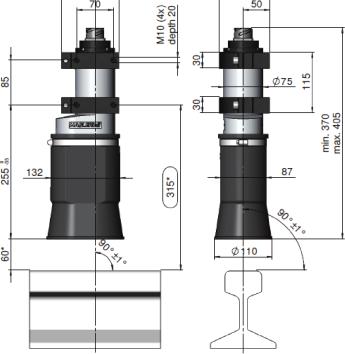
For further information about the product, please do not hesitate to contact one of our collaborators, he will be happy to help.

evaluate HaslerRail

***CORRail 1000***

Forward—

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Main Contact

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| --- | --- |
| Main technical data  Reference surface | Railhead |
| Speed measurement range | 0.2 to 400 km/h |
| Digital pulse output | 1440 pulses/meter (programmable from 1 ... 10'000 pulses/meter) |
| Working distance / -range | 125 ± 50 mm |
| Linearity in speed range | ± 0.1 % (determined on a dynamometer at T = 20 °C) |
| Supply voltage | 24 ... 110 VDC |
| Power consumption | < 40 W |
| Illumination wavelength | 810 nm CAUTION! Invisible IR-radiation! |
| Dimensions excl. connector | 132 mm x 370 .. 405 mm |
| Dimensions filter electronics | 101 x 125 x 229,5 mm (WxHxD) |
| Weight sensor head, aluminium | approx. 3’500 g |
| Weight filter electronics | approx. 2’500 g |
| Life time | > 100’000 h |
| Degree of protection | Sensor: IP68 filter electronics: IP20 |

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