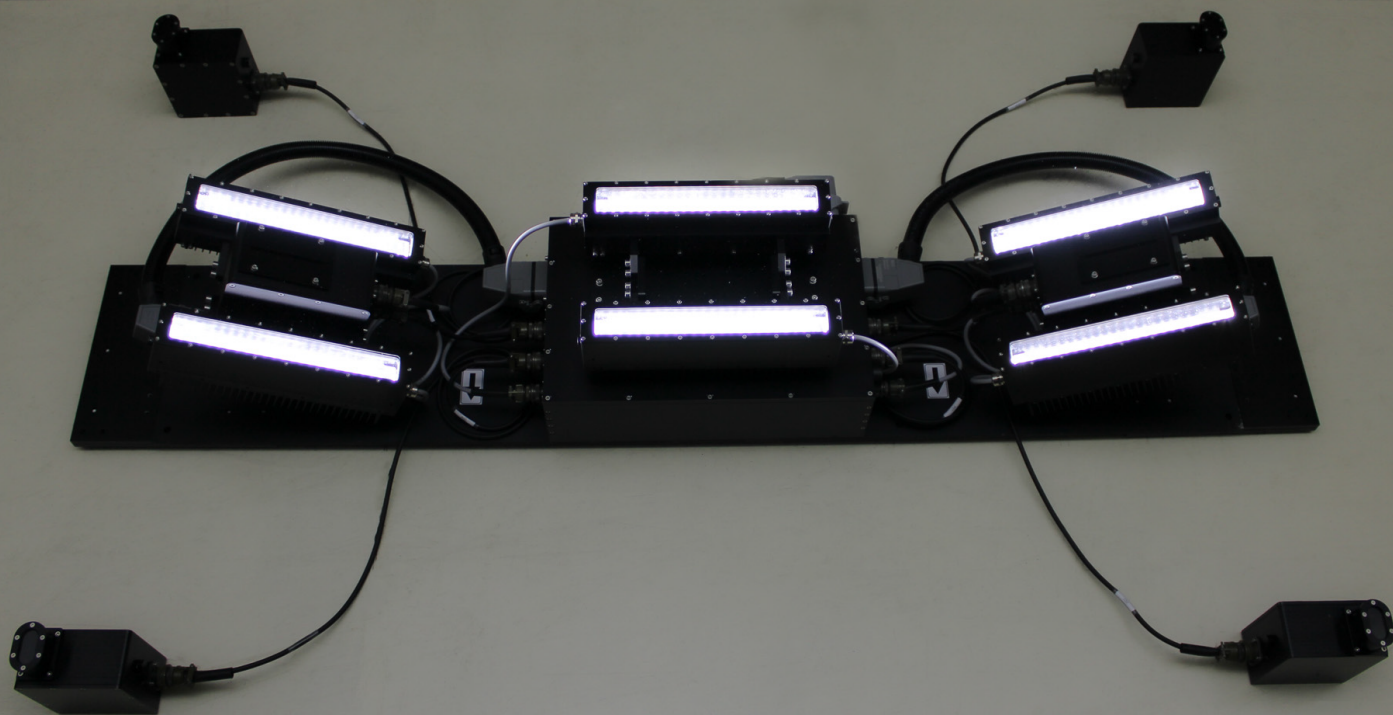


OverHead Line S80



The Contactless Overhead Line diagnostic and measuring equipment it is installable on any type of railway vehicle. It can measure height and stagger and can be used outside and inside tunnels. The OHL S80 system performs measurements without contact with a frequency that makes it suitable to vehicles up to 350km/h , in night or day conditions.

OHL S80 system will include an automatic locating device so that each measurement point can be matched with a proper survey positioning. The system will continuously acquire information from GPS and encoder devices in order to determine the exact position.

The OHL S80 system includes software for measurement analysis and display also in real time during the acquisition phase. The operators can customize line data/details and alert thresholds for the production of the proper data reporting.

Technical description

Wire Height accuracy Roof referenced	$\pm 3\text{mm}$ ($\pm 2\sigma$, for 95% of measures)
Wire Stagger accuracy , roof referenced	$\pm 3\text{mm}$ ($\pm 2\sigma$, for 95% of measures)
Wire Height accuracy , rail referenced (compensated)	$\pm 8\text{mm}$ ($\pm 2\sigma$, for 95% of measures) With optimum car body stiffness
Wire Stagger accuracy , rail referenced (compensated)	$\pm 8\text{mm}$ ($\pm 2\sigma$, for 95% of measures) With optimum car body stiffness
Sampling speed (Hz) (E.g. sampling longitudinal step at different speeds)	Up to 8000Hz Sampling step of 1,25mm at 36km/h (10m/s) Sampling step of 6,25mm at 180km/h (50m/s) Sampling step of 12,5mm at 360km/h (100m/s)
Stagger operating range	$\pm 500\text{mm}$
Height operating range	$\pm 1500\text{mm}$
Wire detected	Up to 2 wires
Operating Humidity	15% - 85%



Compatible for the integration with ADTS Pole Detection and Measurement Unit (PDMU)

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