

LHS Laser Height Sensor

The LHS is used for non-contact distance measurement in the field of vehicle dynamics.

- Various laser classes
- Extremely light and small
- Sensor for use on glass and mirror surfaces
- Connection of several sensors via CAN bus
- Special housing for very high temperatures



Laser Height Sensor

Description

The sensor works according to the triangulation principle and is available with different measurement ranges for various height measurement tasks. It provides CAN and analogue outputs and is configured via RS 232 serial interface.

Application

The LHS can be used for non-contact distance measurement, pitch and roll angle measurement as well as for dynamic camber angle measurement. Due to the different tube lengths the sensor can be mounted on almost all vehicles.

Technical data

Measuring range:	500 / 750 / 1000 mm (others on request)
Start of range:	125 / 145 / 245 mm
Linearity:	± 0.05% of range (for 1000 mm: ± 0.1%)
Resolution:	0.01% of range (digital) (for 1000 mm: 0.02%)
Temperature drift:	0.02% of range (0°C)
Measuring freq.:	9.4 kHz (max.)
Light source:	Red semiconductor laser, 660 nm wavelength
Output power:	≤ 5 mW
Laser safety class:	3R (IEC60825-1)
Output interface:	
• digital:	CAN V2.0 B
• analogue:	0 – 10 V
Power supply:	9 – 36 V
Power consumption:	1.5 – 2 W
Protection class:	IP67
Temperatures	
• operating:	-10 - +60 °C
• storage:	-20 - +70 °C
Relative humidity:	5 – 95% (no condens.)
Dimensions (LxWxH):	112 x 20 x 40 mm
Weight:	100 g

Delivery scope

• LHS 500	Art.No. 1550
• Signal/power cable, 3m	included
• Spray guard	included

Accessories

• Distribution cable	Art.No. 1576
• Signal/power cable, 5m	Art.No. 1572
• Signal/power cable, 10m	Art.No. 1573
• 3-point suction mounting	Art.No. 1555
• 3-point magnetic mounting	Art.No. 1556