

## LHS Laser Height Sensor

The LHS laser height sensor is utilised in vehicle dynamics for non-contact distance measurements. 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 an RS232 serial interface.



### Features

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

### Application

The LHS is used for non-contact distance measurements, pitch and roll angle measurements as well as for dynamic camber angle measurements. Due to the different measuring ranges, the sensor is suitable for use on almost all vehicles.

### Technical Data

Measuring range:	500 / 750 / 1000 mm (others on request)
Start of measuring 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 frequency:	9.4 kHz (max.)
Light source:	Red semiconductor laser, 60 nm wavelength
Output power:	≤ 5 mW
Laser safety class:	3R (IEC60825-1)
Output interface:	
· digital:	CAN V 2.0 B
· analogue:	0 - 10 V
Power supply:	9 - 36 V
Power consumption:	1.5 - 2 W
Protection class:	IP67
Temperatures:	
· operating:	-10 °C - +60 °C
· storage:	-20 °C - +70 °C
Relative humidity:	5 - 95 % (no condens)
Dimensions (LxWxH):	112 x 20 x 40 mm
Weight:	100 g

### Scope of delivery

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

### Optional accessories

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