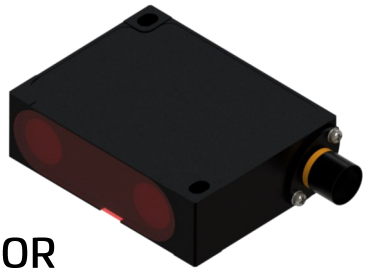
ka sensors
SENSE | ANALYSE | CONTROL



RHL Series
RHL3 Laser Ride Height Sensor

The RHL Series of Laser Ride Height Sensors are designed to withstand the harsh environments of industrial and motorsport applications.
Our RHL3 Sensor incorporates a small diameter visible laser that is reflected off the track surface to a precision CCD detector which determines the height from the ground.
Supplied in two standard measurement ranges of 200mm (60-260mm) or 500mm (200-700mm). With a measurement rate of 750Hz and linearity of 0.2 to 0.5%, this ensures a fast and accurate recording of real-time car data.
The RHL3's construction of anodized aluminium provides protection against high vibration and temperature. However, in the event of damage, the plastic lens can easily be replaced.
Also offered is a choice of electrical connection; either Deutsch Connector or a low profile Cable Exit can be selected.

Technical Specifications

Ranges	200mm (60-260) 500mm (200-700)
Resolution	200mm is 0.1mm 500mm is 0.6mm
Linearity	200mm is ±0.2% FS 500mm is ±0.5% FS
Measurement Range	750Hz
Thermal Effects	0.08% FS/°C
Output	1 to 5V
Ambient Light	<4000LX
Supply	11-30V (50mA)
Operating Temperature Range	0°C to +110°C
Storage Temperature Range	-20°C to +125°C
Construction	Black Anodized Aluminium Casing, Plastic Replacable Lens
Electrical Connection	Cable: 100cm 26AWG, 55Spec Wire + DR25 Sleeve Connector: Deutsch ASL Connector
Protection Class	IP67
Laser Type	1mW, 670nm, Class 2 (DIN EN 60825-1 2007)
Vibration and Shock	20G 10Hz-1kHz & 15G 6ms (IEC 68-2-29)
Weight	90g (Excluding Cable or Connector)
Options	AV Mounts, Cable Length, Connector and Labelling

KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice.

Sensors For Motorsport

Features

- 200 or 500mm Range
- 0-110°C Temp Range
- Rugged Construction
- ±0.2% Linearity
- Replaceable Lens

Applications

- Ride Height
- Suspension Setup
- Chassis Distortion
- Bodywork Deflection

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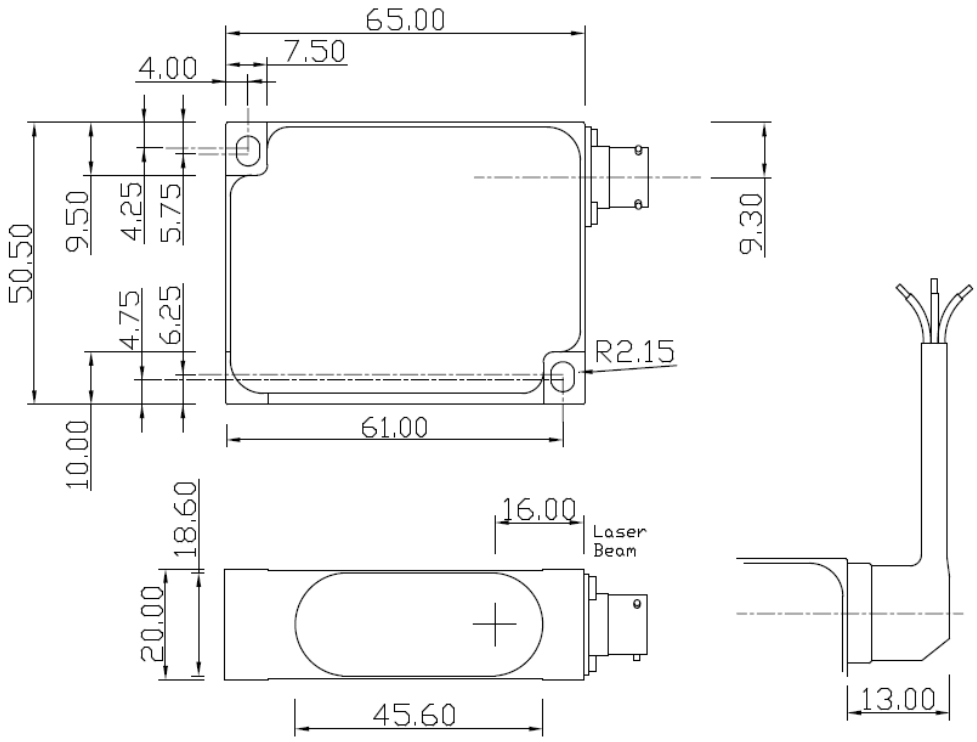
Part Number Configurator

RHL3 - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

Range (mm)	200 500	200 500
Electrical Connection	Deutsch ASL Connector Cable: 26AWG, 55Spec Wire + DR25 Sleeve	ASL CAB
Pin Type	Pins Sockets Not Applicable	P S 0
Key Way	A Key Way (Yellow) C Keyway (Orange) N Key Way (Red) Not Applicable	A C N 0
Cable Length (If Applicable)	Not Applicable (Connector) 100cm	000 100
Special Code	None	000

The KA configuration tool is used to specify a standard KA Sensor, other options are available.

Mechanical Details



Connection Details

+Ve Supply	0V Supply	Signal	Not Connected
Red (Pin1)	Black (Pin2)	White (Pin3)	Pin 4 & 5

Sense
Analyse
Control

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

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