



RHL SERIES RHL4 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 Miniature 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 with standard measurement ranges of 200mm or 500mm, the RHL4 is ideal for use on all types of vehicle. With a measurement rate of up to 4KHz and linearity of 0.1% ensures a fast and accurate recording of real-time car data.

On-board compensation ensures that different track colours and surfaces are correctly measured without error.

The RHL4'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 Souriau Connector or a low profile Cable Exit can be selected.

TECHNICAL SPECIFICATIONS

Ranges	200mm (60-260) or 500mm (100-600) Other Ranges Available Upon Request
Resolution	0.02mm
Linearity	±0.1% of Full Scale
Measurement Rate	250, 500, 1000, 2000, 4000Hz (Factory Set)
Averaging Filter	9 Position and Moving 32 Step
Thermal Effects	0.03% FS/°C
Output	1 to 5V
Ambient Light	<10,000Lx
Supply	11-30V (50mA)
Operating Temperature Range	0°C to +95°C
Storage Temperature Range	-20°C to +95°C
Construction	Black Aluminium Casing, Plastic Replacable Lens
Electrical Connection	Cable: 100cm 26AWG, 55Spec Wire + DR25 Sleeve Connector: Size2 Souriau Connector
Protection Class	IP67
Laser Type	1mW, 670nm, Class 2 (DIN EN 60825-1 2008)
Vibration and Shock	20G 10Hz-1kHz & 15G 6ms (IEC 68-2-29)
Weight	50g (Excluding Cable or Mating Connector)
Options	Custom Filters, Cable Length, Connector and Labelling

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

Sensors For Motorsport

Features

- Miniature Size
- 200 & 500mm Range
- 0-95°C Temp Range
- 4KHz Measurement Rate
- ±0.1% Linearity
- Replaceable Lens

Applications

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

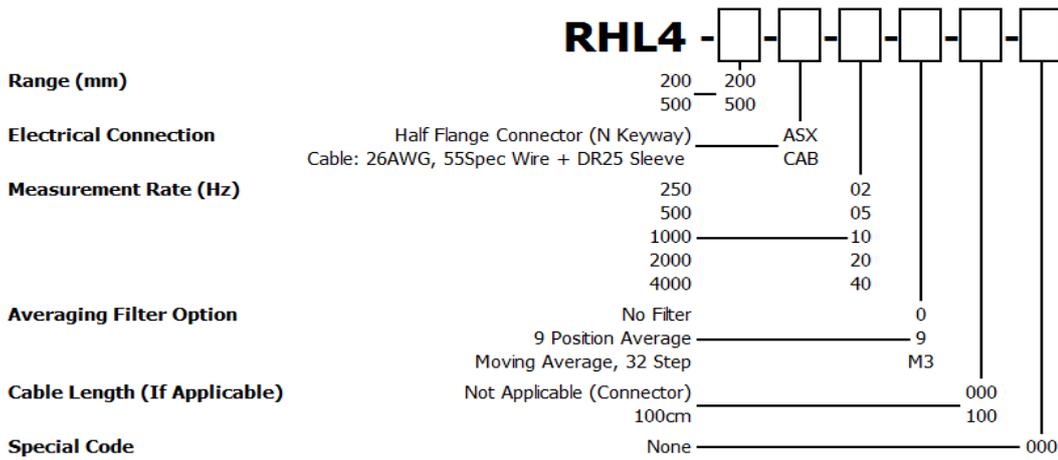
kasensors.com

sales@kasensors.com

+44(0)1476 568057

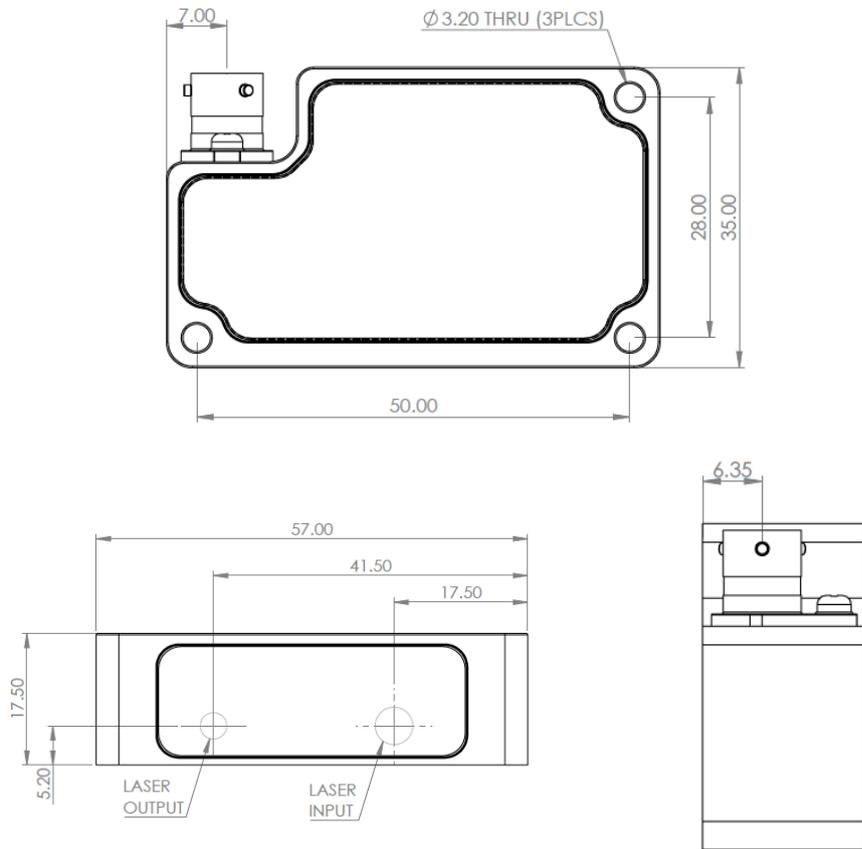
RHL4 10.18

PART NUMBER CONFIGURATOR



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
Wire Colours (Pin Numbers for Connector Type Souriau 8STA-0-02-05-PN)			

*Sense
Analyse
Control*

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact us

KA Sensors Ltd
Unit 14 & 15
The Old Malthouse
Springfield Road
Grantham
Lincolnshire
United Kingdom
NG31 7BG

kasensors.com
sales@kasensors.com
+44(0)1476 568057

RHL4 10.18