

## GST SERIES GEAR LEVER LOAD CELL

The GST Series of Gear Lever Load Cells are designed for the detection and measurement of driver input forces on a sequential gearbox. The measured signal is used within the vehicles ECU to control the gear change strategy.

The output signal is a linear 0.5 to 4.5V and is proportional to the amount of force applied. Installation is a simple M10 x 1.5 thread or a straight 12.7mm (Quaife type) lever. Construction is aluminium with a built-in amplifier. The supply and signal are compatible with all standard ECUs used in motorsport.

The load cell is supplied from stock without a cover. Two optional covers of either aluminium or nylon are also available from stock, or the user can customise their own cover and fix with a supplied M5 screw.

The typical application is for use as: Flat Shift, Quickshifter, Torque Cut, Ignition Cut and Clutch-free Gearshift on race vehicles.

## TECHNICAL SPECIFICATIONS

<b>Range</b>	±150N (approx ±15kg or ±33lbf)
<b>Safe Over Range</b>	±2000N (approx ±200kg or ±440lbf)
<b>Accuracy</b>	±0.5% FS Combined Linearity & Hysteresis (CNLH)
<b>Thermal Effects</b>	Zero ±0.01% FS/°C (Sensitivity ±0.01% of Reading /°C)
<b>Supply</b>	5 to 40V d.c. (less than 20mA)
<b>Output</b>	0.5V to 4.5V (±0.5%) 2.5V at rest with +V in direction of marked arrow
<b>Operating Temperature Range</b>	-20°C to 85°C
<b>Compensated Temperature Range</b>	0°C to 85°C
<b>Construction</b>	Aluminium
<b>Electrical Connection</b>	100cm, 55 spec, 26AWG Cable + DR25 Sleeve
<b>Mounting Options</b>	M10 x 1.5 or 12.7mm diameter straight (Quaife)
<b>Weight (excluding cable)</b>	No Cover: 100g. Aluminium or Nylon Cover: 160g

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

## Sensors For Motorsport

### Features

- ±150N
- Sequential Gearbox
- Built-In Amplifier
- 5V—40V Supply
- ±0.5% Accuracy
- Rugged Construction

### Applications

- Gear Shift
- Steering
- Machine Control
- General Testing

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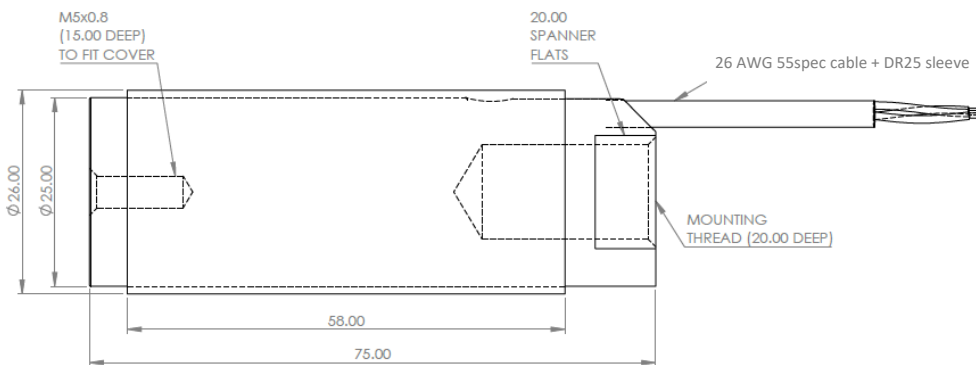
GST 08.22

# PART NUMBER CONFIGURATOR

**GST - 150** -  -  -

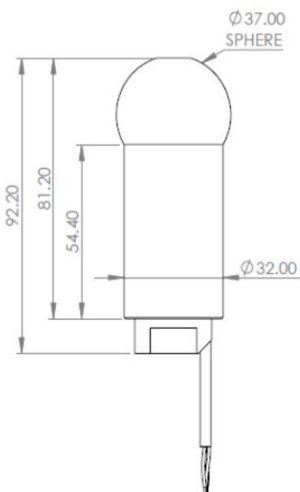
<b>Thread Size</b>	M10 x 1.5	1		
	Quaife 12.7mm (1/2 Inch) Diameter Plain Shaft	6		
<b>Cover Type</b>	No Cover		000	
	Aluminium Domed - 207300		ADM	
	Nylon Straight - 207150		NST	
<b>Special Code</b>	None			000

## MECHANICAL DETAILS

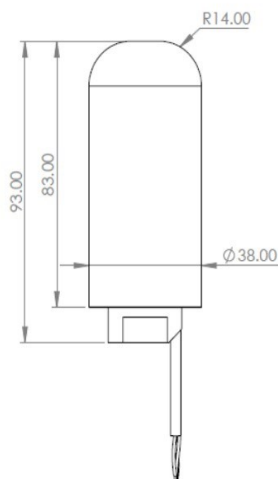


## COVER OPTIONS

ALUMINIUM DOMED



NYLON STRAIGHT



## CONNECTION DETAILS

+V Supply	0V Supply	Signal
Red	Black	White

*Sense*  
*Analyse*  
*Control*

### Services For:

- Sensors
- Data Logging
- Telemetry
- Controls
- Wiring

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