

**GSS SERIES GEAR SHIFT** LOAD CELL

The GSS Series of Miniature Load Cells are designed for the detection and measurement of tension and compression forces in Gear Shift Application.

Construction is stainless steel with a built-in amplifier, allowing for a very simple installation with only a 3 wire connection needed. Mechanical mounting is via M6 or M8 threads.

The output signal is proportional to the amount of force applied and is linear 0.5 to 4.5V which can be connected to most common ECU's. The typical application is for use such as: Flat Shift, Quickshifter, Torque Cut, Ignition Cut and Clutch-free Gearshift on race vehicles.

The Load Cells are generally installed into the actuator rod or cable on sequential gearboxes.

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Range	±500N, ±1000N or ±2000N	^	Applic
Safe Over Range	150% of Range	•	Gea
Accuracy	±1% FS Combined Linearity & Hysteresis (CNLH)	.	Susp
Thermal Effects	Zero $\pm 0.01\%$ FS/°C (Sensitivity $\pm 0.01\%$ of Reading /°C)	.	• Stee
Output	0.5V to 4.5V (2.5v Offset, ±0.5%) +V in Compression		
Supply	5V (±0.5V) Ratiometric or 8-16V	'	Peda
Operating Temperature Range	-20°C to +125°C	•	• Aero
Compensated Temperature Range	0°C to +125°C	•	Gen
Construction	Stainless Steel and Aluminium		
Electrical Connection	100cm, 55Spec, 26AWG Cable + DR25 Sleeve		
Thread Size	M6 x 1 or M8 x 1.25 (Left Hand/Right Hand)		
Protection Class	IP67. Dust & water tight. Immersion to 1m for 30mins	b	of1syste
Weight	30g—40g, Dependant on Thread Size (Excluding Cable)	s	ales@k

## **TECHNICAL SPECIFICATIONS**

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

PRESSURE | TEMPERATURE | FORCE | TORQUE | POSITION | SPEED | ACCELERATION | GYRO

Analyse Control

Sense

## Features

- ±500N to ±2000N
- Miniature Size .
- 5V or 8-16V Supply .
- IP67 Sealed
- ±1% Accuracy
- **Rugged Construction**

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GSS KA019F-DS (rev1)

