

Description

Pedal Force Sensor is strain gauge based force sensor designed for pedal force measurements. It is fully temperature compensated with four gage full bridge circuit. It can be installed easily.

Also it can be used in determining force of Brake, clutch and accelerator in automobile testing.

Features

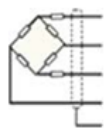
- ❖ 25 to 150 kgf. capacities offered
- ❖ Complete environmental protection – IP 65 class for gage area
- ❖ Standard output 1.5 mV/V available
- ❖ Can be designed as per customer's specific requirements.
- ❖ Can be supplied with suitable digital display unit

Applications

- ❖ Brake pedal force
- ❖ Clutch pedal force
- ❖ Accelerator pedal force
- ❖ Force testing machine

Performance Specification

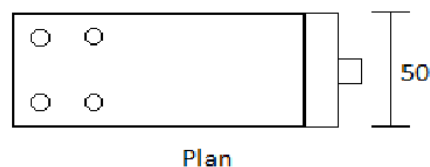
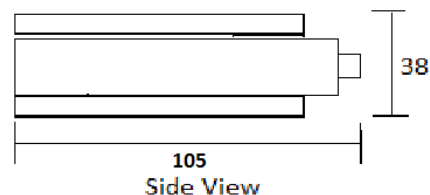
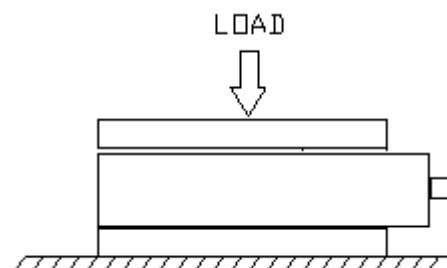
Standard Capacities in Kgf	25 , 50, 100, 150
Excitation Voltage	10 VDC- Maximum 15 VDC
Nominal Output	1.5mV/V
Non – Linearity	< ±0.1% FSO
Hysteresis	< ±0.1% FSO
Non-Repeatability	< ±0.1% FSO
Creep (30 minutes)	< ±0.3% FSO
Zero Balance	±1.0% FSO
Input Resistance	390 Ohms Nominal
Output Resistance	350 Ohms Nominal
Insulation Resistance (50 VDC)	> 1000 Mega Ohms
Cable Length (4 Core Screened)	5 Mtrs
Safe Overload	150% OF RC
Ultimate Overload	200% OF RC
Temp. Compensated Range	10-50 °C
Temperature Effect on Output	< 0.08% FSO/ °C
Temperature Effect on Zero	< 0.05% FSO/ °C
Rotational Angular Deflection	< 0. 2 at FSO
Finish & Construction	Sensing element - Tool Steel Outer Body – Powder Coated MS
Environmental Protection Class	IP65 – Gage area

Electrical Termination

+ Input - Red
+ Output - Green
- Input - Black
- Output - White
Shield - Floated

Options

Mounting Support Provided
Compatible Instruments with Relay output,
4-20 mA or 0-2 Volt Output
Digital Version with RS-485 interface / USB output /
Blue Tooth Telemetry / Wireless Telemetry
Software for Graphic, Tabulation, Reporting & Analysis



Specification are subject to change without prior notice.

All dimensions are in mm.



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