



Description

Radial Force Sensor RFS-200 is strain gauge based load cell with full temperature compensation. **It is provided with in built overload & under protection during transit and during operation** and it is easy for installation. It is fitted with Self Aligning ball bearing housing. Entire sensor is constructed from tool steel. RFS are typically applied in pair, one on each end of rotating shaft. RFS makes a significant contribution for more productive operations at an improved quality. Higher capacity version is available upon request.

Applications

Used for measuring web tension of materials drawn over a rotating roller of-

Web Processing Equipment For:

- Paper
- Foil
- Film
- Magnetic Tape
- Plastic Tape
- Thin Metal Web
- Textile / Non- Wovens

Web Converting Equipment For:

- Coating
- Printing
- Embossing
- Slitting
- Laminating
- Winder / Unwinder
- Web Converter

Key Features

Ideal for industrial Radial Force Sensing.

Complete Environmental Protection – Meets IP 65 class

Electro less nickel-plated tool steel constructions

Wide range of capacities from 10 KGF to 200 KGF.

In built over load / under load Construction

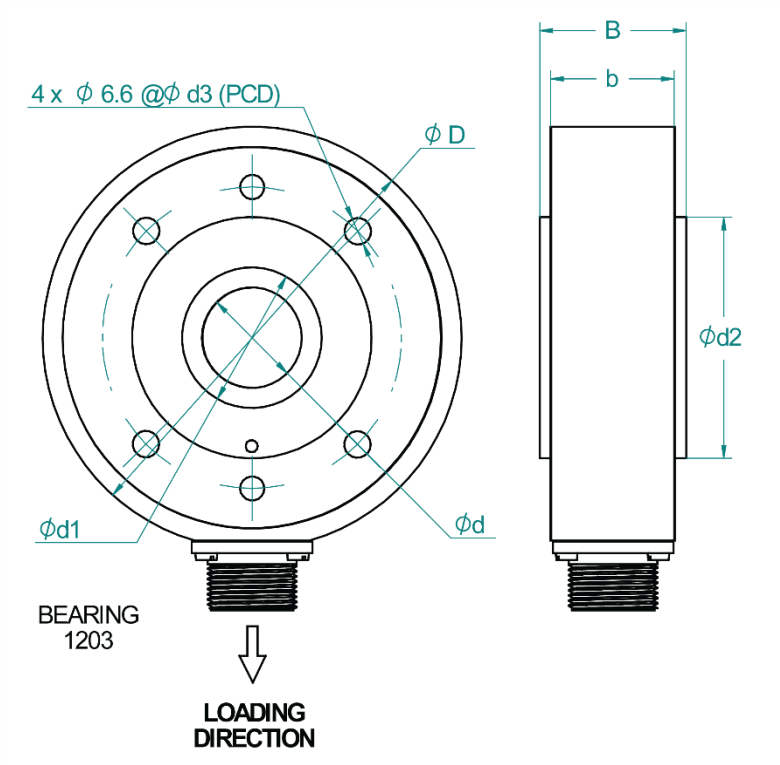
Standardized output 1.5 mV/V offered

Calibration in mV/V/ Ω

Technical Specifications

STANDARD CAPACITY(KGF)		10, 20, 50, 75, 100, 150, 200
PERFORMANCE	Non - Linearity	< ± 0.05 % FSO
	Non-Repeatability	< ± 0.05 % FSO
	Combine Error	< ± 0.05 % FSO
	Creep (30 minutes)	< ± 0.03 % FSO
	Zero Balance	$\pm 1.0\%$ FSO
ELECTRICAL	Output	1.5 mV/V
	Excitation Voltage	Maximum 15 VDC (Suggested 5VDC / 10VDC)
	Input Resistance	375 Ω (Ohms)
	Output Resistance	350 Ω (Ohms)
	Insulation Resistance	(100 VDC) > 1000 Mega Ω (Ohms)
STRUCTURE	Safe Overload Of Rated Capacity	150%
	Ultimate Overload of Rated Capacity	250%
	Allowable Side Load	50%
	Deflection	< 0.5 mm at FSO
	Finish Product	Electro less nickel-plated tool steel
	Cable Length(4 Core Screened)	5 Pin Connector Gland with 8 Meter Cable
	As per IS/IEC 60529:2001	IP65
TEMPERATURE	Operating Temperature	0°C to 60°C (Optional 90°C, 120°C, 150°C)
	Compensated Temperature	10°C to 50°C (Optional 90°C, 120°C, 150°C)
	Temperature Effect on Output	< 0.04 % FSO/ °C
	Temperature Effect on Zero	< 0.04 % FSO/ °C
	Loading Direction	Towards Dot Mentioned on Cover (Downward Towards Connector)

Dimension (mm)

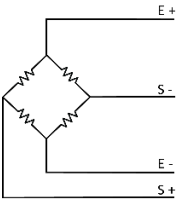


CAPACITY-KGF	d	d1	d2	d3	D	b	B	Bearing	CABLE
10-100	17	22	60	75	105	32	38	1203	8 Meter
20-200	25	32	70	95	125	40	48	1205	8 Meter

All dimensions are in mm.

Specification are subject to change.

Electrical Termination



Excitation(E+)	Red
Signal(S-)	White
Excitation(E-)	Black
Signal(S+)	Green
Shield	