

Description

20210 - AL is strain gauge based force sensor constructed from Aluminum alloy. It is provided with full temperature compensation 10°C to 50 °C. It is compact and light weight and easy to install. This is applied to hand held force gauges, hanging scales and controlled feed systems.

Applications

- Hand held Force gauge
- Medical Instruments
- Controlled feed systems
- Test Equipment
- Thread tension control in textile industry

Key Features

High accuracy available as per standard ISO 376:2011.

Complete Environmental Protection – Meets IP 65 for gauge Area

Aluminum Alloy constructions

Wide range of capacities from 1 KGF to 10 KGF.

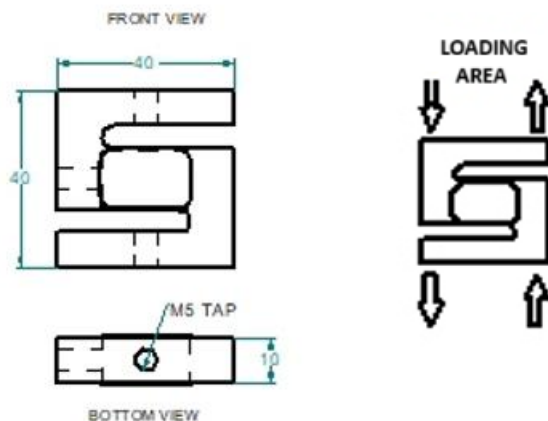
Calibration in mV/V/Ω

Can be **customized** to suit customer's need

Technical Specifications

STANDARD CAPACITY		1, 2, 3, 5, 10	-KGF
PERFORMANCE	Non - Linearity	< ± 0.2 % FSO	
	Non-Repeatability	< ± 0.1 % FSO	
	Creep (30 minutes)	< ± 0.03 % FSO	
	Zero Balance	± 1.0 % FSO	
ELECTRICAL	Output	1.5 mV/V TO 2.00 mV/V	
	Excitation Voltage	Maximum 15 VDC (Suggested 5Vdc / 10 VDC)	
	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%	
	Allowable Side Load	50%	
	Deflection	< 0.5 mm at FSO	
	Cable length	1 Meter	
	Finish Product	Aluminum Alloy	
	As per IS/IEC 60529:2001	IP65	
TEMP.	Operating Temperature	0°C to 60°C	
	Compensated Temperature	10°C to 50°C	
	Temperature Effect on Output	< 0.04 % FSO/ °C	
	Temperature Effect on Zero	< 0.04 % FSO/ °C	
OPTIONAL	ATEX	II 3D EX tcIIIC T60°C DC, II 3G EX ec IIC GC	
	High Temperature Cable	Teflon Cable	
	High Temperature Range	40°C to 90°C (Temperature Effect on Output & Zero : < 0.020% FSO/ °C)	
	Accessories	DLC-6 DLC-6M HH-06 DIGITAL LOAD CONTROLLER (MULTI. O/P)	

Dimension (mm)



CAPACITY	THREAD	CABLE
1 KGF, 2 KGF, 3 KGF, 5 KGF, 10 KGF	M5	1 Meter
All dimensions are in mm.		
Specification are subject to change.		

Electrical Termination

