

Description

CE Certified 20610 – F is strain gage based load cell with temperature compensation over 10 to 50°C range. It is universal load cell for compression & tension force measurements. This has Female threads at both ends for fixing it into the system. It is very useful for in line force measurements. It is constructed from tool steel for toughness & ruggedness. It is sealed for IP65 protection class for environment.

Features

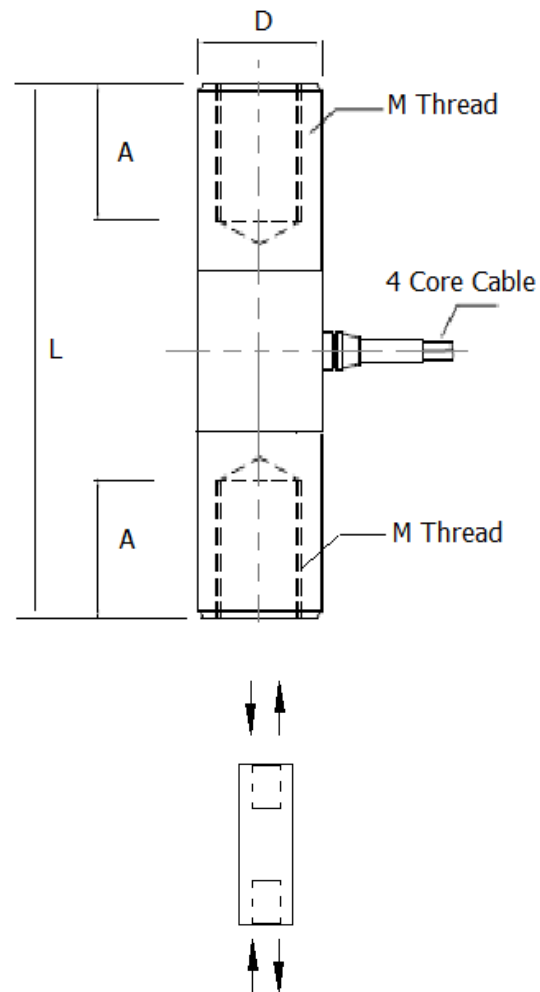
- ❖ **CE Rated** ❖ 1,2,5,7.5,10,15,20,30,40,50,75,100,150,200,300,450TF Capacities available.
- ❖ High Alloy Tool Steel construction for resistance against shock and overload.
- ❖ It is light weight and portable.
- ❖ High Temperature version for foundry applications is available upon request.
- ❖ Male thread version Model 20610 – M is available.
- ❖ Can be designed to fit your dimensional needs.
- ❖ Can be supplied with suitable electronic transmitter, indicator, and controller.

Applications

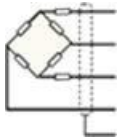
- ❖ Line tension measurement
- ❖ Hanging type of weighing
- ❖ Force measurement in hydraulic system
- ❖ Calibration of testing machine
- ❖ Thrust measurement
- ❖ Industrial process control

Performance Specification

| | |
|--------------------------------|--|
| Offered Capacities-Tf. | 1,2,5,7.5,10,15,20,30,40,50,75,100,150,200,300,450 |
| Excitation Voltage | 10 VDC- Maximum 15 VDC |
| Nominal Output | 2.0 m V/ V |
| Non - Linearity | < ±0.2% FSO (Full Scale Output) |
| Hysteresis | < ±0.2% FSO |
| Non-Repeatability | < ±0.2% FSO |
| Creep (30 minutes) | < ±0.1% FSO |
| Zero Balance | ±1.0% FSO |
| Input Resistance | 775 ± 15 Ohms |
| Output Resistance | 700 ± 3 Ohms |
| Insulation Resistance (50 VDC) | > 1000 Mega Ohms |
| Cable Length | 5 Meters – 4 core screened |
| Safe Overload | 150% of Rated Capacity |
| Ultimate Overload | 200% of Rated Capacity |
| Temp. Compensated Range | 0-60°C |
| Temperature Effect on Output | < 0.0025% FSO/ °C |
| Temperature Effect on Zero | < 0.0030% FSO/ °C |
| Deflection | < 0.4 mm at FSO |
| Finish & Construction | Electro less Nickel Plated Tool Steel |
| Environmental Protection Class | Meets IP65 |



Electrical Termination



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

Options

- ❖ **Mounting Accessories**
- ❖ **4-20 mA / 0-2 Volt Output**
- ❖ **Digital Version with RS-485 interface**
- ❖ **Blue Tooth Telemetry**
- ❖ **Compatible Instrument**
- ❖ **Software for Graphic, Tabulation and Reporting**
- ❖ **Dual Bridge**
- ❖ **Wireless Telemetry**

| Capacity (Tf) | A | L | M – Thread | D – Dia. |
|---------------|-----|-----|------------|----------|
| 1, 2, 5 | 25 | 100 | M 20 X 1.5 | 38 |
| 7.5, 10 | 40 | 150 | M 30 x 2 | 48 |
| 15, 20 | 50 | 175 | M 39 x 2 | 58 |
| 30,40,50 | 75 | 240 | M 64 x 4 | 114 |
| 75, 100, 150 | 100 | 350 | M 90 x 4 | 148 |
| 200, 300 | 135 | 450 | M 125 x 4 | 178 |
| 450 | 160 | 550 | M 150 x 4 | 240 |

Specifications are subject to change. All dimensions are in mm.



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