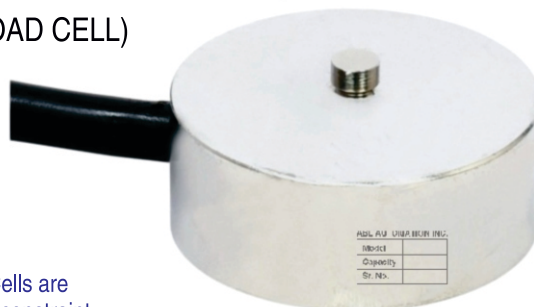




# Automation

## Model : ABL 616-M

### BUTTON TYPE LOAD CELL (MINIATURE COMPRESSION LOAD CELL)



#### Description

(ABL-616-M) Miniature Compression Load Cells are suitable for applications where spaces are constraint.

- \* This is constructed from heat treated stainless steel suitable for harsh and hygienic industrial applications.
- \* It is sealed for IP-65 protection and it has long life.
- \* Extremely suitable for automation, tensile testing and force measurements.
- \* ABL-616-M is available with integral load button.

#### Features

- \* 50Kgf to 500 Kgf Capacities.
- \* Complete environmental protection IP65 class.
- \* Standard output 2.0 m V/V available.
- \* Hardened stainless steel construction.
- \* Miniature and low profile.
- \* Easy for installation.
- \* Custom built design available on request

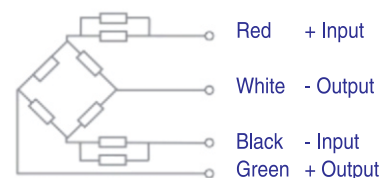
#### Applications

- \* Tensile testing
- \* Force and impact test
- \* Robotics
- \* Test Bench
- \* Automation
- \* Industrial Force Measurement

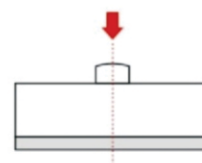
#### Parameters :

|                                            |                                       |                                |                         |
|--------------------------------------------|---------------------------------------|--------------------------------|-------------------------|
| Rated Load (Kgs): 8, 10, 50, 100, 200, 500 |                                       |                                |                         |
| Excitation Voltage                         | 50 VDC - Maximum 15 VDC               | Cable Length (4 core)          | 1.5 Mtr.                |
| Nominal Output                             | 2.0 $\pm$ 0.2 mV/V                    | Safe Overload                  | 150%                    |
| Non - Linearity                            | < $\pm$ 0.1 % FSO (Full Scale Output) | Ultimate Overload of Rated     | 300%                    |
| Hysteresis                                 | < $\pm$ 0.1 % FSO                     | Temp. Compensated Range (°C)   | 0-60                    |
| Non-Repeatability                          | < $\pm$ 0.1 % FSO                     | Temp. Effect on Output         | < 0.005 % FSO/°C        |
| Creep (30 minutes)                         | < $\pm$ 0.03 % FSO                    | Temp. Effect on Zero           | < 0.005 % FSO/°C        |
| Input Resistance                           | 350 $\pm$ 10 Ohms                     | Deflection                     | < 0.5 mm at FSO         |
| Output Resistance                          | 350 $\pm$ 3 Ohms                      | Material                       | Stainless Steel-17-4 PH |
| Insulation Resistance (M $\Omega$ )        | $\geq$ 5000 ( 50 VDC)                 | Environmental Protection Class | IP67                    |

#### Wiring Schematic Diagram :



#### Load Diagram :



#### Dimensions (mm) :

