

## Aluminum Single-Point Load Cell

### FEATURES

- Capacities 0.5–20 kg for 350 ohm
- Capacities 5–30 kg for 1000 ohm
- Aluminum construction
- Single-point 200 x 200 mm platform
- IP66 protection

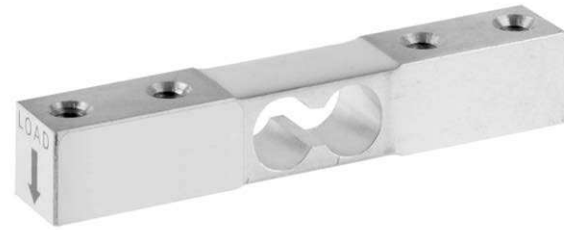
### APPLICATIONS

- Small scales
- Grocery scales

### DESCRIPTION

The Model 1002 is a very small, low capacity, aluminum single-point load cell, equally suitable for simple weighing scales or for industrial measurement and medical applications.

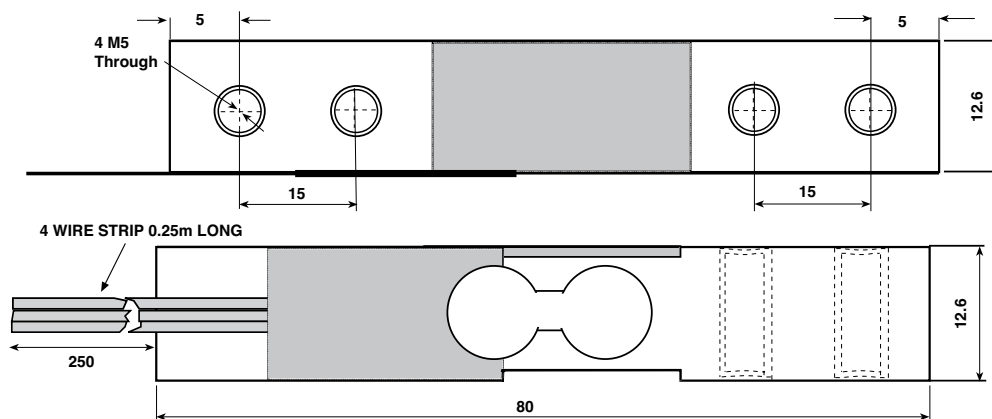
The Model 1002 has the advantage of very small size. It is, therefore, both versatile and easy to use in a wide variety of industrial measurement applications.



Optional 1000-ohm strain gages are particularly suitable for connection to battery-powered equipment (designated Model 1002-K).

Typical applications include packing machines, filling machines, weaving machines, industrial process control, and low-force medical applications, as well as small-platform weighing.

### OUTLINE DIMENSIONS in millimeters

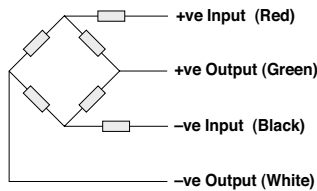


Aluminum Single-Point Load Cell

| SPECIFICATIONS                          |                                |                      |                       |
|---|--------------------------------|----------------------|-----------------------|
| PARAMETER                               | VALUE                          |                      | UNIT                  |
| Model                                   | 1002                           | 1002-K               |                       |
| Accuracy class                          | Non-Approved                   |                      |                       |
| Maximum no. of intervals (n)            | 1000                           |                      |                       |
| Rated capacity—R.C. (E <sub>max</sub> ) | 0.5, 1, 2, 3, 5, 8, 10, 15, 20 | 5, 8, 10, 15, 20, 30 | kg                    |
| Rated output—R.O.                       | 0.5                            | 1.5                  | mV/V                  |
| Rated output tolerance                  | 10                             |                      | ±% mV/V               |
| Zero balance                            | 0.4                            | 0.2                  | ±mV/V                 |
| Zero return, 30 min.                    | 0.050                          |                      | ±% of applied load    |
| Total error                             | 0.1                            |                      | ±% of rated output    |
| Temperature effect on zero              | N/A                            |                      | ±% of rated output/°C |
| Temperature effect on output            | N/A                            |                      | ±% of load/°C         |
| Eccentric loading error                 | 0.16                           |                      | ±% of rated load/cm   |
| Temperature range, compensated          | -10 to +40                     |                      | °C                    |
| Temperature range, safe                 | -20 to +70                     |                      | °C                    |
| Maximum safe central overload           | 150                            |                      | % of R.C.             |
| Ultimate central overload               | 300                            |                      | % of R.C.             |
| Excitation, recommended                 | 5                              |                      | VDC or VAC RMS        |
| Excitation, maximum                     | 15                             |                      | VDC or VAC RMS        |
| Input impedance                         | 350±50                         | 1000±50              | Ω                     |
| Output impedance                        | 350±50                         | 1000±50              | Ω                     |
| Insulation resistance                   | >2000                          |                      | MΩ                    |
| Cable length                            | 0.25                           |                      | m                     |
| Cable type                              | 4 wire, PVC                    |                      | Standard              |
| Construction                            | Aluminum                       |                      |                       |
| Environmental protection                | IP66                           |                      |                       |
| Platform size (max)                     | 200 x 200                      |                      | mm                    |
| Recommended torque                      | 2                              |                      | N*m                   |

All specifications subject to change without notice.

**Wiring Schematic Diagram**  
(Balanced bridge configuration)





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