Model 1002

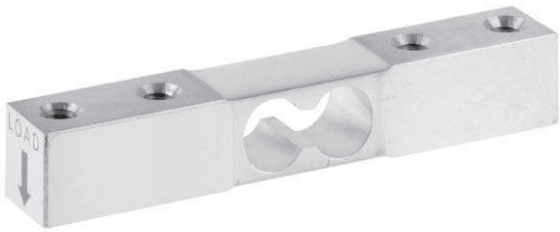
Tedea-Huntleigh

VISHAY PRECISION GROUP

Aluminum Single-Point Load Cell

FEATURES

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



APPLICATIONS

- Small scales
- Grocery scales

DESCRIPTION

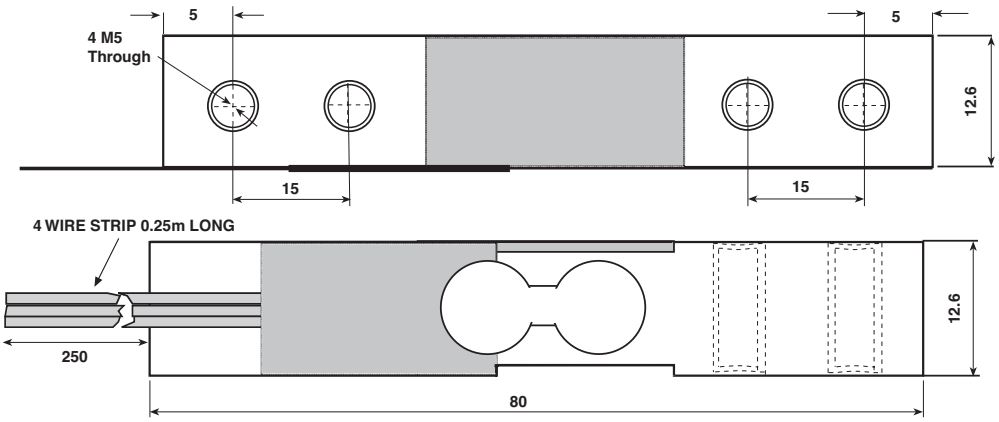
Model 1002 is a very small, low capacity, aluminum single-point load cell, equally suitable for simple weighing scales or for industrial measurement and medical applications.

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



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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_{max})	0.5, 1, 2, 3, 5	5, 8, 15, 20	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)