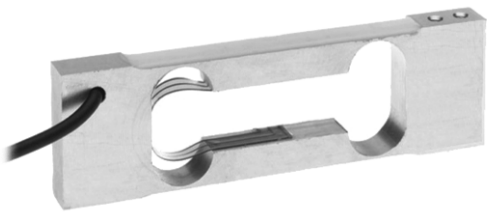
Model 1004

Vishay Tedea-Huntleigh

Aluminum Single Point Load Cell



FEATURES

- Capacities 0.3 - 3kg
- Aluminum construction
- Single point 200 x 200mm platform
- IP66 protection
- Total error better than 0.0067% of R.O.
- OIML approved

OPTIONAL FEATURE

- Capacity 200g at 0.8mV/V

DESCRIPTION

Model 1004 is a very low capacity, very high precision single point load cell designed for direct mounting in low capacity scales and precision balances.

This load cell is suitable for applications including jewellery scales, analytical balances, medical equipment, medical and pharmaceutical research and low level force measurement.

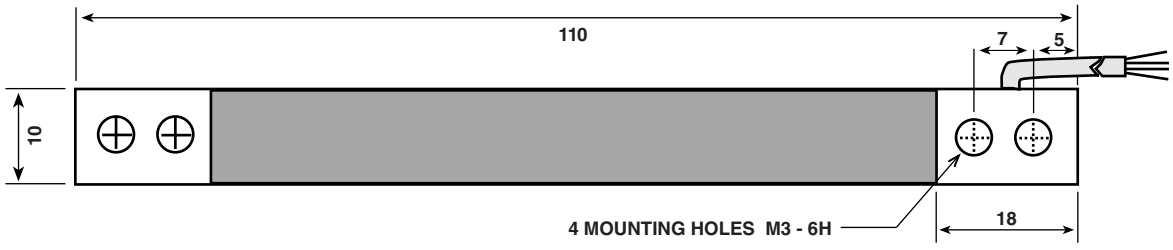
The model 1004 offers up to 30000 divisions short term precision at stable room temperature. A special two-stage humidity resistant protective coating assures long term reliability.

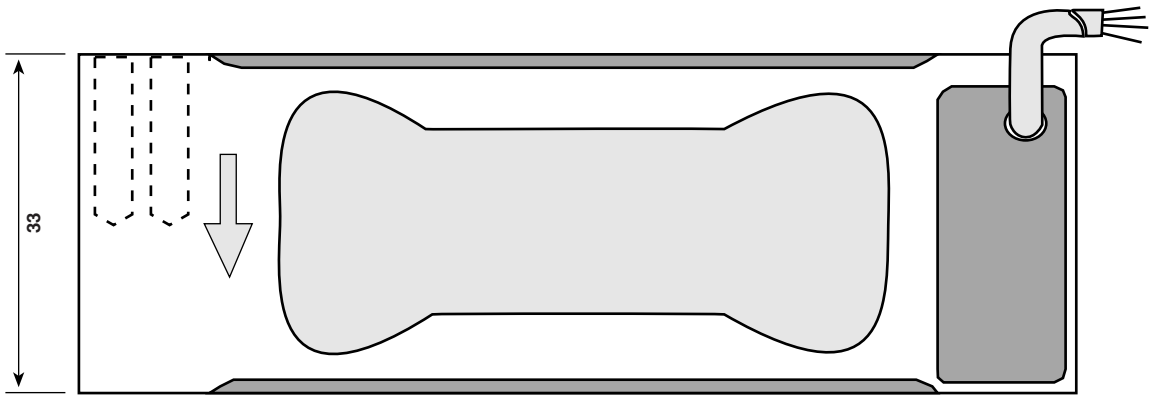
An overload protection device can be easily included in the application design. A threaded hole is provided in the loading end of the load cell for this purpose.

APPLICATIONS

- Low capacity scales
- Precision scales
- Jewelry scales
- Pharmaceutical scales

OUTLINE DIMENSIONS in mm





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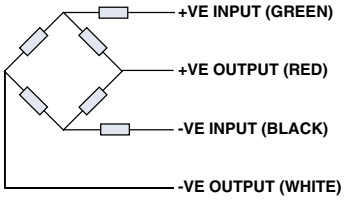
SPECIFICATIONS

PARAMETER	VALUE			UNIT
Accuracy class	**GW**	**JW**	**C3**	
Rated capacity-R.C. (E_{max})	0.3, 0.6, 1.5, 3			kg
Rated output-R.O.	0.9			mV/V
Rated output tolerance	0.1			±mV/V
Zero balance	0.045			±mV/V
Zero Return, 2 minutes	0.0100	0.0033		±% of applied load
Zero Return, 30 minutes			0.017	±% of applied load
Total Error (per OIML R60)	0.0100	0.0067	0.02	±% of rated output
Temperature effect on zero	0.0040		0.004	±% of rated output/°C
Temperature effect on output	0.0020		0.001	±% of load/°C
Eccentric loading error	0.0033			±% of rated load/cm
Temp. range, compensated	+5 to +40			°C
Temp. range, safe	-3 to +70			°C
Maximum safe central overload	150			% of R.C.
Ultimate central overload	250			% of R.C.
Excitation, recommended	10			Vdc or Vac rms
Excitation, maximum	15			Vdc or Vac rms
Input impedance	415±20			Ohms
Output impedance	350±3			Ohms
Insulation resistance	>2000			Mega-Ohms
Cable length	0.4			m
Cable type	4 wire, PVC, spiral shield			
Construction	Aluminum			
Environmental protection	IP66			
Platform size (max)	200 x 200			mm
Recommended torque	2.0			N*m

WIRING SCHEMATIC DIAGRAM
(Balanced bridge configuration)



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