

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

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.

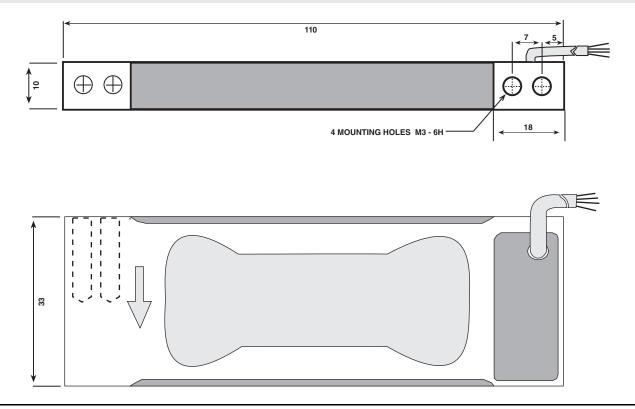
The model 1004 offers up to 30000 divisions short term precision at stable room temperature. A special two-stage humidity resistant protective coating assures long term reliability.

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 millimeters



Model 1004

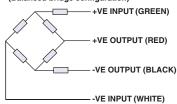
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SPECIFICATIONS

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 torgue	7.0			N*m

WIRING SCHEMATIC DIAGRAM (Balanced bridge configuration)



VISHAY TRANSDUCERS (VT) SALES OFFICES

VT Americas City of Industry, CA PH: +1-626-858-8899 FAX: +1-626-332-3418 vt.us@vishaymg.com

VT Netherlands Breda PH: +31-76-548-0700 FAX: +31-76-541-2854 vt.nl@vishaymg.com VMG UK Basingstoke PH: +44-125-646-2131 FAX: +44-125-647-1441 vt.uk@vishaymg.com

VMG Israel Netanya PH: +972-9-863-8888 FAX: +972-9-863-8800 vt.il@vishaymg.com VMG Germany Heilbronn PH: +49-7131-3901-260 FAX: +49-7131-3901-2666 vt.de@vishaymg.com

VT China Tianjin PH: +86-22-2835-3503 FAX: +86-22-2835-7261 vt.prc@vishaymg.com VMG France Chartres PH: +33-2-37-33-31-20 FAX: +33-2-37-33-31-29 vt.fr@vishaymg.com

VT Taiwan* Taipei PH: +886-2-2696-0168 FAX: +886-2-2696-4965 vt.roc@vishaymg.com *Asia except China

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