

Aluminum Single-Point Load Cell



FEATURES

- Capacities 0.3–3 kg
- Aluminum construction
- IP66 protection
- OIML approved
- Single-point 200 x 200 mm platform

OPTIONALFEATURE

- Capacity 200g at 0.8 mV/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 , jewelry scales, analytical balances, medical equipment, medical and pharmaceutical research and low-level force measurement.

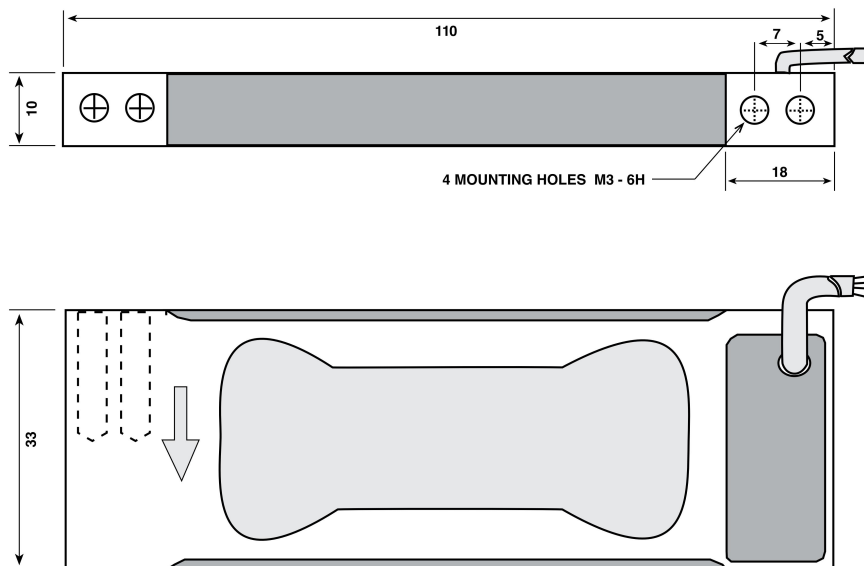
The Model 1004 offers up to 30000 divisions short-term precision at stable room temperature. A special two-stage humidity resistant protective coating assures long-term reliability.

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



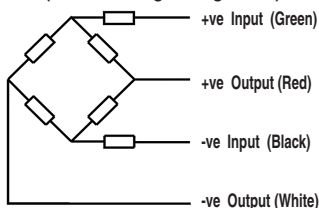
All dimensions in mm

SPECIFICATIONS

PARAMETER	VALUE				UNIT
	C3	GW	HW	JW	
Accuracy class	C3	GW	HW	JW	
Rated capacity—R.C. (E _{max})	0.3, 0.4, 0.6, 1.2, 1.5, 3.0				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		0.01	0.0055	0.0033	±% of applied load
Zero return, 30 minutes	0.017				±% of applied load
Total error (per OIML R60)	0.02	0.01	0.01	0.0067	±% of rated load
Temperature effect on zero	0.004	0.004			±% of rated output/°C
Temperature effect on output	0.001	0.002			±% of load/°C
Eccentric loading error	0.0033				±% of rated load/cm
Temperature range, compensated	+5 to +40				°C
Temperature range, safe	-30 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				
Recommended torque	2				N*m
Platform size (max)	200 x 200				mm

All specifications subject to change without notice.

Wiring Schematic Diagram
(Balanced bridge configuration)





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