

## Aluminum Single-Point Load Cell

### FEATURES

- Capacities 0.3–3 kg
- Aluminum construction
- Single-point 200 × 200 mm platform
- IP66 protection
- Total error better than 0.0067% of R.O.
- OIML C3 and C6 approved



### APPLICATIONS

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

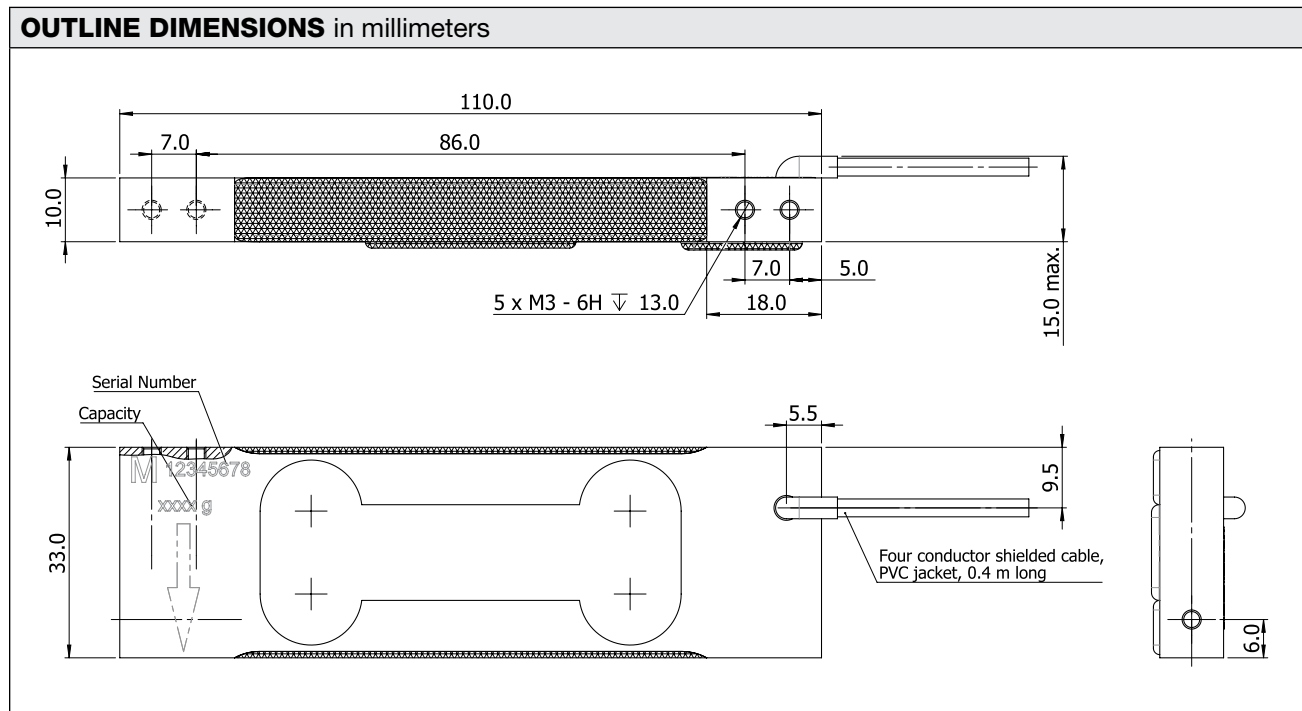
analytical balances, medical equipment, medical and pharmaceutical research, and low-level force measurement.

The Model 1004 offers up to 30,000 divisions of short-term precision at a stable room temperature. A special two-stage humidity resistant protective coating assures long-term reliability

### DESCRIPTION

The 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,

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.



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SPECIFICATIONS				
PARAMETER	VALUE			UNIT
	G8	G6	J8	
Accuracy type designation	G8	G6	J8	
OIML Accuracy class	C3	C3	C6MR10	
Minimum utilization	85	60	80	%
$Y=E_{max}/V_{min}$	3500	5000	7500	
Maximum number of intervals	3000	3000	6000	
Rated capacity—R.C. ( $E_{max}$ )	0.3	0.6, 1.0, 1.2, 1.5, 2.0, 3.0	0.6, 1.0, 1.2, 1.5, 2.0, 3.0	kg
Rated output—R.O.	0.9			mV/V
Rated output tolerance	0.10			±mV/V
Zero balance	0.04	0.05	0.05	±mV/V
Total Cell Error per OIML R60	0.02	0.02	0.010	±% of R.O.
Creep, 30 minutes	0.0245	0.0245	0.013	±% of load
Zero return, 30 minutes	0.017	0.017	0.0083	±% of load
Temperature effect on zero	0.004	0.004	0.0014	±% of R.O./°C
Temperature effect on output	0.001	0.001	0.00058	±% of load/°C
Eccentric loading error	0.0033	0.0033	0.0024	±% of load/°cm
Temperature range, compensated	+5 to +40	-10 to +40	-10 to +40	°C
Temperature range, operating	-20 to +65			°C
Temperature range, storage	-30 to +80			°C
Maximum safe static overload	150			% of R.C
Ultimate static overload	200			% of R.C
Excitation, recommended	10			VDC or VAC RMS
Excitation range	5 to 15			VDC or VAC RMS
Input impedance	350 to 450			Ω
Output impedance	349 to 370			Ω
Insulation resistance	>2000			MΩ
Cable length	0.4			m
Weight (nominal)	0.06			kg
Cable type	4 conductors , 28 AWG, floating Spiral braid shielded, PVC jacket			
Color code	+Exc: Green, +Sig: Red, -Exc: Black, -Sig: White			
Construction	Aluminum			
Environmental protection	IP66			
Maximum recommended plat. size	200 × 200			mm

All specifications are subject to change without notice.