

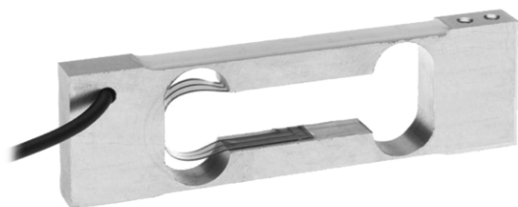
1004—Single Point Load Cell

FEATURES

- Capacities 0.3—3Kg
- Sealed to IP66.
- Accuracy 0.02% RO.

APPLICATIONS

- Low capacity scales.
- Precision scales.
- Jewellery scales.
- Pharmaceutical scales.



DESCRIPTION

The SP-1004 is a very low capacity, high precision single point load cell that is ideal for direct mounting in low capacity scales and precision balances.

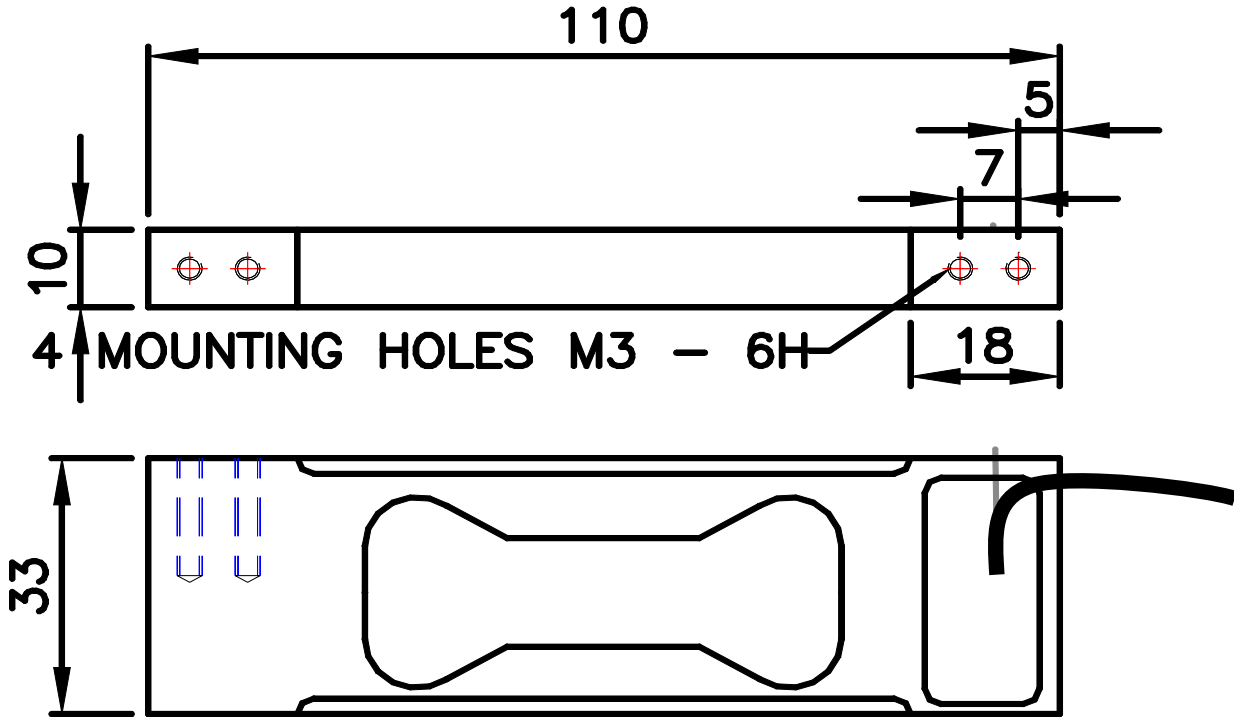
The 1004 can offer up to 30,000 divisions short term performance at stable room temperature. A special two stage humidity resistant protective coating assures long term reliability.

TYPICAL SPECIFICATION

PARAMETER	VALUE	UNITS
Capacities Range	0... 0.3, 0.6, 1.5, 3.	kg
Rated Output	0.9 ±10%	mV/V
Linearity & non repeatability	0.02	±% of Rated Output
Zero Return after 30 minutes	0.017	±% of Applied Load
Zero Balance	5.0	±% of Rated Output
Temperature Range: Operating	-3 to +70	°C
Temperature Range: Compensated	+5 to +40	
Temperature Effect: On Output	0.001	±% of Rated Output/°C
Temperature Effect: On zero	0.004	±% of Rated Load/°C
Safe Overload	150	% of Rated Capacity
Ultimate Overload	250	% of Rated Capacity
Excitation: Recommended	10	Volts AC or DC
Excitation: Maximum	15	
Input Impedance	415 nominal	ohm
Output Impedance	350 nominal	ohm
Insulation Resistance	>2	GΩ at 50VDC
Deflection at Rated Capacity	N/A	mm
Weight (approximate) :	N/A	kg
Construction	Aluminium	
Environmental Protection	IP66	
Cable	0.4m 4 core screened	

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OUTLINE DIMENSIONS in millimeters



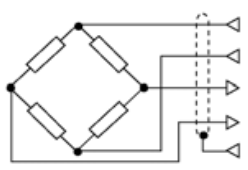
NOTE: The recommended Torque Value = 7.0 Nm

Maximum platform size = 200 x 200mm

An over protection device can be easily included in the application design. A threaded hole is provided at the load cell for this purpose. Care must be taken on selecting this model because if used incorrectly could detect other unwanted forces, such as vibration.

NOTE: If the dimensions or specifications do not suit your application, PCM have an in-house design service that should satisfy your requirements.

WIRING DETAIL

Dynamometer	OUTPUT	CABLE
	EXCITATION+ EXCITATION - OUTPUT+ OUTPUT- -----	Green Black Red White Shield*

LOADING MODE

