Aluminum Single-Point Load Cell

FEATURES

- Capacity range: 75–635 kg
- Aluminum construction
- Single-point 600 × 600 mm platform
- OIML R60
- IP65 protection
- Available with metric and UNC threads
- **Optional**
  - ATEX, FM and IECEx approvals available

APPLICATIONS

- Large platform scales
- Hanging scales
- Check weighing

DESCRIPTION

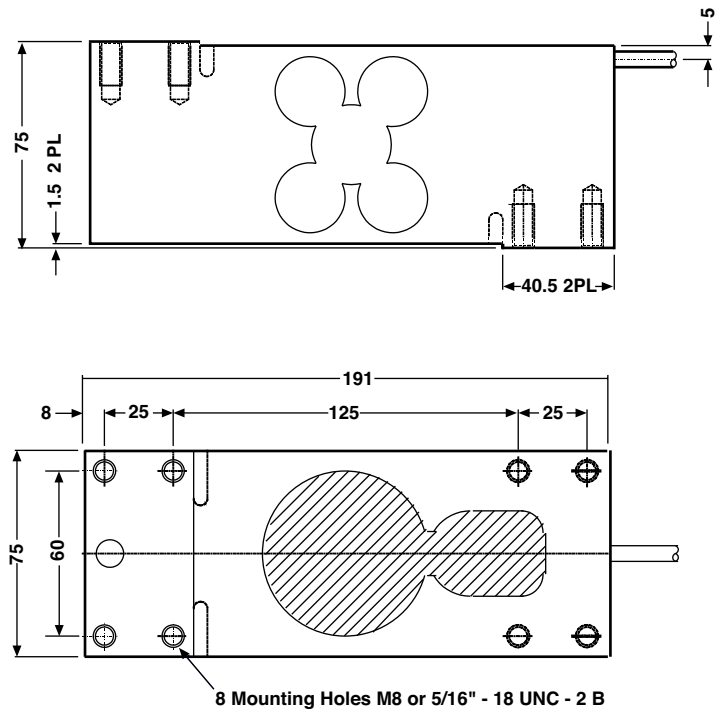
The Model 1252 is a high capacity single-point load cell fully interchangeable with the Model 1250, designed for direct mounting of the weighing platform or side cell applications.

Resulting from simpler scale construction, the Model 1252 is a cost-effective load cell for use in counting, weighing, bench or floor scale productions.

A special humidity-resistant protective coating assures long-term stability over the entire compensated temperature range. This load cell has Factory Mutual approval and IP66 protection.

The two additional sense wires feed back the voltage reaching the load cell. Complete compensation of change in the lead wires resistance, due to temperature change and/or cable extension, is achieved by feeding this voltage into the appropriate electronics

OUTLINE DIMENSIONS in millimeters



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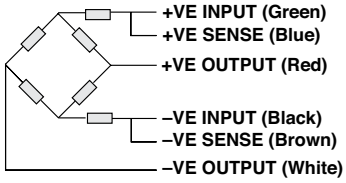
SPECIFICATIONS			
PARAMETER	**VALUE**		**UNIT**
Rated capacity—R.C. (E_{max})	75, 100,150, 200, 300, 500, 635**		kg
NTEP/OIML accuracy class	Non-Approved	C3*	
Maximum no. of intervals (n)	1000	3000	
$Y = E_{max}/V_{min}$	2000	10000	Max. available
Rated output—R.O.	2.0		mV/V
Rated output tolerance	0.2		±mV/V
Zero balance	0.2		±mV/V
Zero return, 30 min.	0.05	0.0170	±% of applied load
Total error (per OIML R60)	0.0500	0.0200	±% of rated output
Temperature effect on zero	0.0100	0.004	±% of rated output/°C
Temperature effect on output	0.0030	0.0010	±% of applied load/°C
Eccentric loading error	0.0050	0.0033	±% of rated load/cm
Temperature range, compensated	–10 to +40		°C
Temperature range, safe	–30 to +70		°C
Maximum safe central overload	150		% of R.C.
Ultimate central overload	300		% of R.C.
Excitation, recommended	10		VDC or VAC RMS
Excitation, maximum	15		VDC or VAC RMS
Input impedance	415±15		Ω
Output impedance	350±3		Ω
Insulation resistance	>2000		MΩ
Cable length	3.0		m
Cable type	6-wire, braided, Polyurethane, floating screen		Standard
Construction	Plated (anodized) aluminum		
Environmental protection	IP65		
Platform size (max.)	600 x 600		mm
Recommended torque	16.0		N*m

* 50% utilization

** Capacities 500 and 635 are not approved

All specifications subject to change without notice.

WIRING SCHEMATIC DIAGRAM
(Balanced bridge temperature compensation)



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