Model 1250

Tedea-Huntleigh

VPG force sensors

Celtron ▪ Revere ▪ Sensortronics ▪ Tedea-Huntleigh

Aluminum High Capacity Single-Point Load Cell

FEATURES

- Capacities 50–1500 kg
- Aluminum construction
- Single-point 800 x 800 mm platform
- OIML R60 and NTEP approved
- IP65 protection
- Available with metric and UNC threads
- **Optional**
  - EEx ia IIC T4 hazardous area approval
  - FM and IECEx approvals available
  - IP67 option available

APPLICATIONS

- Large platform scales
- Hanging scales
- Check weighing

DESCRIPTION

The Model 1250 is a single-point load cell designed for direct mounting of large platforms.

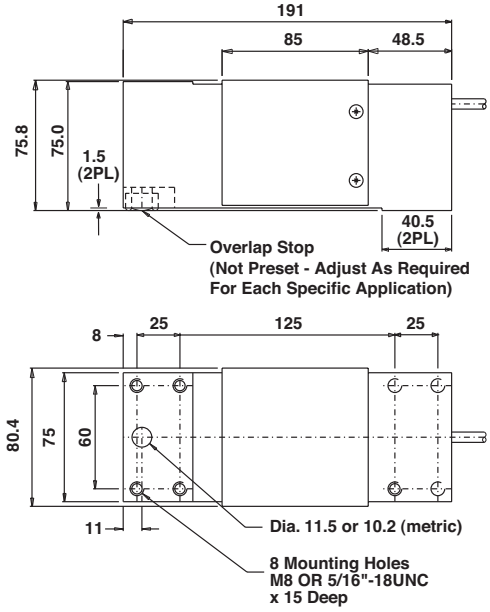
This product is a cost-effective load cell for use on counting, weighing, bench or floor scale products.

This high accuracy load cell is approved to OIML R60, NTEP and other stringent approval standards. Suitable for use in hazardous environments, this load cell can be provided with European approval to EEx ia IIC T4 and are FM approved to class I, II, III, Division I.

A special humidity-resistant protective coating assures long-term stability over the entire compensated temperature range.

The two additional sense wires, sample the bridge supply voltage at 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



Aluminum High Capacity Single-Point Load Cell

SPECIFICATIONS				
PARAMETER	**VALUE**			**UNIT**
Rated capacity—R.C. (E_{max})	50, 75, 100 , 150, 200, 250, 300, 500, 635, 750, 1000, 1500			kg
NTEP/OIML accuracy class	NTEP	Non-Approved	C3*	
Maximum no. of intervals (n)	5000 single	1000	3000	
Y = E_{max}/V_{min}	10000	1400	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.	0.0250	0.0300	0.0170	±% of applied load
Total error (per OIML R60)	0.0200	0.0500	0.0200	±% of rated output
Temperature effect on zero	0.0023	0.0100	0.0023	±% of rated output/°C
Temperature effect on output	0.0010	0.0030	0.0010	±% of applied load/°C
Eccentric loading error	0.0033	0.0050	0.0033	±% of rated load/cm
Temperature range, compensated	–10 to +40			°C
Temperature range, safe	–20 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	>5000			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)	800 x 800***			mm
Recommended torque	Up to 1000 kg: 16.0 1500 kg: 32.0			N*m

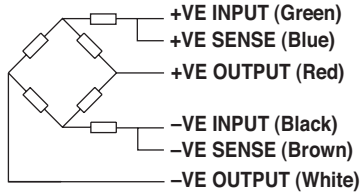
* 50% utilization
3500 divisions also available
** Available also in IP67
*** 635–1500 kg capacities: platform size 600 x 600 mm
All specifications subject to change without notice.

CERTIFICATION MARKINGS

ATEX/IECEx/UKEX markings (for Zone 0,1,2 and Zone 20,21,22)
II 1 GD
Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
Ta = -20°C to +40/70°C

ATEX/UKEX markings (for Zone 2 and Zone 22 only)
II 3GD
Ex ec IIC T6 Gc
Ex tc IIIC T85°C Dc
Ta = -20 to +40°C
or
II 3GD
Ex ec IIC T4 Gc
Ex tc IIIC T135°C Dc
Ta = -20 to +70°C

WIRING SCHEMATIC DIAGRAM
(Balanced temperature compensation)



FM Approval markings (USA and Canada)
IS Class I, II, III, Division 1,
Groups A, B, C, D, E, F and G; T4
Ta = -25°C to +40°C