

Stainless Steel Single-Point Load Cell

FEATURES

- Capacities 15–150 kg
- Stainless steel construction
- Single-point 400 x 400 mm platform
- IP65 protection
- Available with UNC threads only
- **Optional**
 - EEx ia IIC T4 hazardous area approval
 - FM approval available


 ATEX 


APPLICATIONS

- Harsh environment small platforms
- Harsh environment check weighing

DESCRIPTION

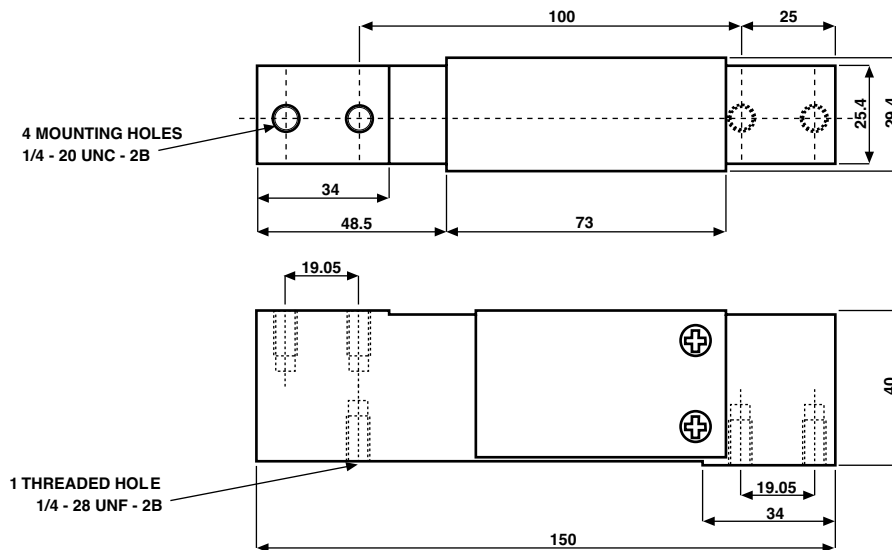
Model 1140 is a low profile single-point load cell designed for direct mounting of low cost weighing platforms.

The small physical size, combined with high accuracy and low cost, makes this load cell ideally suited for low profile

bench and counting scales. For wash-down protection an optional IP65 encapsulation protection is available. Constructed from stainless steel this high accuracy load cell is approved to Factory Mutual and other stringent approval standards.

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

OUTLINE DIMENSIONS in millimeters



Model 1140

Tedea-Huntleigh

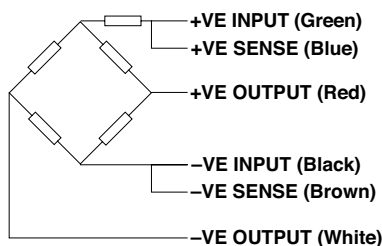
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SPECIFICATIONS		
PARAMETER	VALUE	UNIT
Rated capacity—R.C. (E_{max})	15, 20, 30, 50, 75, 100, 150	kg
NTEP/OIML accuracy class	Non-Approved	
Maximum no. of intervals (n)	3000	
Rated output—R.O.	2.0	mV/V
Rated output tolerance	0.2	±mV/V
Zero balance	0.2	±mV/V
Zero return, 30 min.	0.0170	±% of applied load
Total error (per OIML R60)	0.0200	±% of rated output
Temperature effect on zero	0.004	±% of rated output/°C
Temperature effect on output	0.0010	±% of load/°C
Eccentric loading error	0.0074	±% of rated load/cm
Temp. range, compensated	-10 to +40	°C
Temp. 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	385±15	Ω
Output impedance	350±3	Ω
Insulation resistance	>2000	MΩ
Cable length	1.0	m
Cable type	6-wire, PVC, single floating screen	Standard
Construction	Stainless steel	
Environmental protection	IP65*	
Platform size (max)	400 x 400	mm
Recommended torque	Up to 30 kg: 7.0 50 kg and above: 10.0	N*m

* IP67 available on request

All specifications subject to change without notice.

WIRING SCHEMATIC DIAGRAM



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