

Model 1140

Single Point Load Cells



Features

- ◆ Capacities: 15 - 150 kg (33 - 330 lbs)
- ◆ Stainless steel construction
- ◆ 6 Wire (sense) circuit
- ◆ Single point 400mm x 400mm (15.75 inch x 15.75 inch) platform
- ◆ IP54 protection (IP65 optional)

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 retail, bench and counting scales.

This stainless steel, bolt hole compatible version of model 1040, is available for applications unsuitable for load cells of aluminum construction.

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

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.

TEDEA **th**
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EXCELLENCE IN LOAD CELLS

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Single Point Load Cells

GRADE	E	F	G**	C3***	UNITS
Rated Capacities	15, 20, 30, 50, 75, 100, 150				kg
Rated Output	2.0 ± 10%				mV/V
Total Error*	0.030	0.020	0.0200	0.0200	±% of Applied Load
Zero Return after 30 mins	0.050	0.025	0.0170	0.0170	±% of Applied Load
Temperature Effect: On Output	0.0030	0.0014	0.0010	0.0010	±% of Applied Load / °C
Temperature Effect: On Zero	0.0100	0.0060	0.0040	0.0023	±% of Rated Output / °C
Eccentric Loading	0.0074	0.0074	0.0049	0.0049	±% of Applied Load / cm
Zero Balance	10.0				±% of Rated Output
Temperature range: Operating	-30 to +70				°C
Temperature range: Compensated	-10 to +40				°C
Safe Overload	150				% of Rated Capacity
Ultimate Overload	300				% of Rated Capacity
Excitation: Recommended	10				Volts AC or DC
Excitation: Maximum	15				Volts AC or DC
Input Impedance	415 ± 15				Ohms
Output Impedance	350 ± 3				Ohms
Insulation Impedance	>5000				Mega Ohms
Deflection at Rated Capacity	<0.4				mm
Weight	0.35				kg
Construction	Stainless Steel				
Environmental Protection	IP54 (IP65 Optional)				
Cable	1 Meter Standard (0.5m 1041), 6 Wire, PVC, Single Floating Screen				

* Total Error - According to OIML R60 ** 85% utilization *** Consult factory for utilization factors

Outline Dimensions All Capacities (in mm)

Wiring Schematic Diagram

(1140 balanced bridge configuration)

