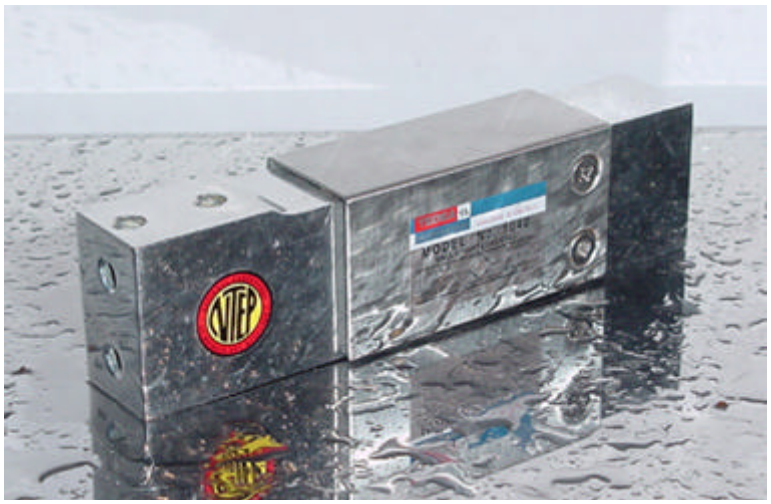
Model 1040-41

Single Point Load Cells



Features

- Capacities: 5 kg - 100 kg (11.02 lbs - 220.46 lbs)
- Aluminum construction
- 6 wire (sense circuit)
- Single point 400 mm x 400 mm
- (15.75 inch x 15.75 inch) platform
- 1040: IP65 protection (IP67 optional) 1041: IP55
- Approved to NTEP 5000 divisions and OIML R60

Models 1040 and 1041 are low profile single point load cells designed for direct mounting of low cost weighing platforms.

Their small physical size, combined with high accuracy and low cost, makes these load cells ideally suited for retail, bench and counting scales.

Available in anodized aluminum these high accuracy load cells are approved to stringent approval standards, including NTEP 5000 divisions and OIML R60.

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.

Also Available from Tedea-Huntleigh
Also in this range, a stainless steel, bolt hole compatible version designated model 1140 is available for applications unsuitable for load cells of aluminum construction.

VISHAY Transducers

EXCELLENCE IN LOAD CELLS

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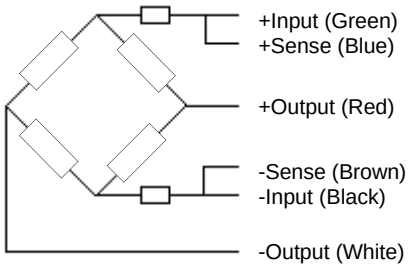
Model 1040-41

Single Point Load Cells

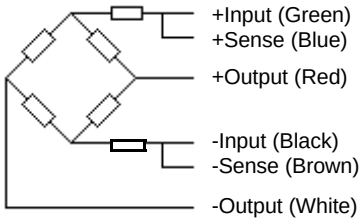
GRADE	E	F	G**	C3***	UNITS
Rated Capacities	5, 7, 10, 15, 20, 30, 50, 75, 100				kg
Rated Output	2.0 ± 10%				mV/V
Total Error*	0.030	0.020	0.0200	0.0200	±% of Rated Output
Zero Return after 30 mins	0.050	0.025	0.0170	0.0170	±% of Rated Output
Temperature Effect: On Output	0.0030	0.0014	0.0010	0.0010	±% 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	1040: >5000 1041: >2000				Mega Ohms
Deflection at Rated Capacity	<0.4				mm
Weight	1040: 0.35 1041: 0.30				kg
Construction	1040: Anodized aluminum 1041: Aluminum				
Compensation Circuit Type	1040: Balanced 1041: Unbalanced				
Environmental Protection	1040: IP65 (IP67 Optional) 1041: IP55				
Cable	1040: 1 M 1041: 0.5 M 6 Wire, PVC, Shielded				
Approvals	NTEP 5000 divisions and OIML R60				

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

Wiring Schematic Diagram
(1040 balanced bridge configuration)



Wiring Schematic Diagram



Outline Dimensions All Capacities (in mm)