

Model 1042

Single Point Load Cells

ENHANCED



Features

- Capacities: 1 - 100 kg (2.20 - 220.46 lbs)
- Anodized aluminum construction
- 6 wire (sense) circuit
- Single point 400 x 400 mm platform
- IP66 protection
- NTEP approved 5000 divisions
- OIML approved **6000** divisions

Model 1042 is a low profile, two -beam single point load cell designed for direct mounting of low cost weighing platforms, ideally suited for retail, bench and counting scales.

Available in anodized aluminum, this high-accuracy load cell is approved to NTEP 5000 divisions and other stringent approval standards, including OIML R60 C4 and OIML R60 C3, 30% utilization.

A special humidity - resistant, IP66, protective coating assures long term stability over the entire compensated temperature range. Interchangeable, replacement to industry standard models 1040, 1041, 1140 (stainless).

Tedea-Huntleigh, with models ranging from 1 to 50,000 kg capacities, is the world's largest manufacturer of precision load cells.

The two additional sense wires feed back the excitation voltage reaching the load cell. Complete compensation of changes in lead resistance due to temperature changes and/or cable length changes, 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 and 1142 are available for applications unsuitable for load cells of aluminum construction.

For further details please contact the factory or your local distributor.

TEDEA **th**
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EXCELLENCE IN LOAD CELLS

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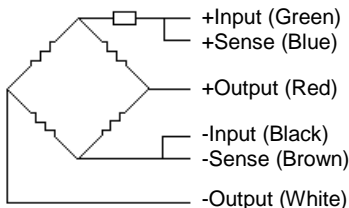
Single Point Load Cells

Parameters	Z	M	E	F	G	G5	G3	I*	I5**	Units
OIML ACCURACY CLASS			C1	C2	C3	C3 / 50	C3 / 30			
NTEP ACCURACY CLASS/NMAX			III / 1500	III / 2000	III / 3000				III / 5000	
Rated Capacity (R.C.)	1, 3, 5, 7, 10, 15, 20, 30, 50, 75, 100									kg
Rated Output (R.O.)	2									mV/V
Rated Output Tolerance	0.2									±mV/V
Zero Balance	0.2									±mV/V
Total Error Per OIML R60	0.075	0.05	0.03	0.02	0.02	0.02	0.02			± % of R.O.
Total Error Per NIST Handbook 44			0.03	0.02	0.02			0.02		± % of R.O.
Creep and Zero Return (30 min.)	0.07	0.07	0.05	0.025	0.017	0.017	0.017	0.033		± % of load
Temperature Effect: On Output	0.07	0.005	0.003	0.0014	0.001	0.001	0.001	0.001		± % of load / °C
Temperature Effect: On Zero	0.025	0.025	0.01	0.006	0.004	0.0023	0.0014	0.0023	0.0014	± % of R.O. / °C
Temperature Range: Safe	-30 to +70									°C
Temperature Range: Compensated	-10 to +40									°C
NTEP V min.					RC/3500			RC/6000	RC/10000	kg
Eccentric Loading Error	0.015	0.015	0.0074	0.0074	0.0049	0.0049	0.0049		0.0049	± % of load / cm
Maximum Recommended Platform Size	40 x 40									cm
Maximum Safe Static Overload (central loading)	150									% of R.C.
Ultimate Static Overload (central loading)	300									% of R.C.
Deflection	< 0.4									mm
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 Resistance	> 2000									MegaOhms
Weight (nominal)	0.30									kg
Cable Type	6 conductors, 26 AWG, shielded, PVC jacket, 1 meter									
Cable Code	+exc - green, +sig - red, +sen - blue -exc - black, -sig - white, -sen - brown									
Construction	anodized aluminum, except 1 and 3 kg capacities									
Circuit Type	Unbalanced									
Environmental Protection	IP 66									
Approvals	NTEP (5000 divisions) and OIML (4000 divisions)									

NOTES : Balanced span temperature compensation optional. * 85% Utilization standard, other utilization available on request . ** 50% Utilization standard, other utilization available on request

Wiring Schematic Diagram

Unbalanced Bridge Configuration
(Balanced option available)



The two "sense" wires sample the bridge supply voltage at the load cell. Complete compensation of change in the lead wire resistance, due to temperature change and/or cable extension, is achieved by feeding this voltage into appropriate electronics.

Mounting

4 Mounting holes
M6

