650 SINGLE POINT LOAD CELL

DESCRIPTION:

The 650 is an aluminium, single point load cell.

Single point load cells eliminate the need for flexures and levers thus greatly simplifying scale design and reducing cost.

The 650 load cell is suitable for use in a wide range of medium capacity platform scales, packaging machinery and general process weighing applications.

Full sealing ensures this product can be used in a variety of industrial applications.

This product meets the stringent Weights and Measures requirements throughout Europe.

FEATURES:

- Certified to OIML R60, **3000d**
- Industry standard mounting configuration
- Platform size to 400x500 mm
- **CAPACITIES: 50 → 250kg**

Revere Transducers Europe

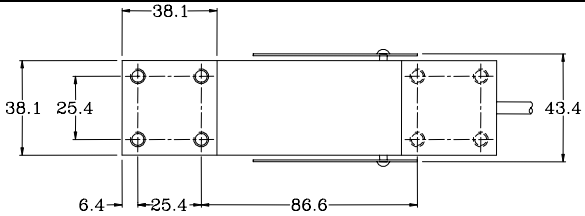
an SI Technologies company

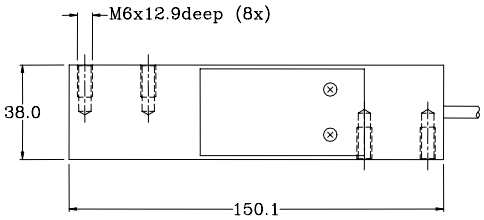
650: SPECIFICATIONS

Capacity	E_{max}	kg	50, 100, 150, 200, 250	
Accuracy Class According to OIML R60[3]				C3
Maximum Number of Verification Intervals	n_{lc}			3000
Minimum Verification Interval ($v_{min} = E_{max}/Y$)	v_{min}			E_{max}/6000
Minimum Verification Interval, **Type MR**	v_{min}			E_{max}/10000
Accuracy Class According to Type Designation[1]			CC	C3
Combined Error		%S	≤ ± 0.050	≤ ± 0.023
Hysteresis		%S	≤ ± 0.050	≤ ± 0.017
Non-Repeatability	E_R	%S	≤ ± 0.070	≤ ± 0.035
Creep Error (30 Minutes)		%S	≤ ± 0.060	≤ ± 0.025
Creep Error (20-30 Minutes)		%S	≤ ± 0.0200	≤ ± 0.0053
Minimum Dead Load Output Return	MDLOR	%S	≤ ± 0.050	≤ ± 0.017
Temperature Effect on Minimum Dead Load Output	TC_o	$\%S_{nom}/5^oC$	≤ ± 0.0250	≤ ± 0.0117
Temperature Effect on Minimum Dead Load Output, **Type MR**	TC_o	$\%S_{nom}/5^oC$		≤ ± 0.0070
Temperature Effect on Sensitivity	TC_S	$\%S/5^oC$	≤ ± 0.0250	≤ ± 0.0088
Eccentric Load Error[2] (Up to 160mm)		%Load/mm	≤ ± 0.00074	≤ ± 0.00057
Maximum Platform Size		mm	400x500	
Minimum Dead Load	E_{min}	$\%E_{max}$	0	
Safe Load Limit	E_{lim}	$\%E_{max}$	150	
Ultimate Load	E_{ult}	$\%E_{max}$	300	
Maximum Safe Side Load		$\%E_{max}$	100	
Deflection at E_{max}		mm	....	
Excitation Voltage		V	5 … 15	
Maximum Excitation Voltage		V	18	
Rated Output	S_{nom}	mV/V	2 ± 0.2	
Zero Balance		$\%S_{nom}$	≤ ± 4	
Input Resistance	R_{in}	Ω	400 ± 20	
Output Resistance	R_{out}	Ω	350 ± 3.5	
Insulation Resistance	R_{ins}	MΩ	≥ 5000	
Compensated Temperature Range	T_{cps}	°C	-10 … +40	
Operating Temperature Range	T_{opr}	°C	-30 … +65	
Storage Temperature Range	T_{srg}	°C	-40 … +70	
Element Material			Aluminium	
Sealing (DIN 40.050 / EN 60.529)			IP63	
Recommended Torque on Fixation Bolts		Nm	....	

1 The specified accuracies apply for the compensated temperature range.
2 According to OIML R76: E = 1/3 E_{max} at 160mm from central load axis.

Correct mounting of the load cell is essential to ensure optimum performance. The maximum platform sizes given are those recommended to ensure that (a) the system meets Weights and Measures requirements and (b) damage is not done to the load cell through excessive torque. Overload stops should be set with loads placed **within the recommended** platform size.
Further information is available on request





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Cable specifications:

Cable length	1m
Excitation +	Green
Excitation -	Black
Output +	Red
Output -	White
Sense +	Blue
Sense -	Brown
Shield	Transparent

Shield is not connected to the load cell body.

Attention:

Dimensions in [mm] and inches
All dimension tolerances according to ISO 2768m, unless otherwise specified.

All specifications subject to change without notice.

6/03/76/01 E