

1042

SINGLE POINT LOAD CELL



Low profile aluminum load cell, for platforms up to 400x400mm

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Model 1042 is a low profile single point load cell designed for direct mounting on weighing platforms 01kg up to 200kg.

■ APPLICATION

Its small physical size, combined with high accuracy and low cost, makes this load cell ideally suited for retail, bench and counting scales.

■ INDICATED FOR

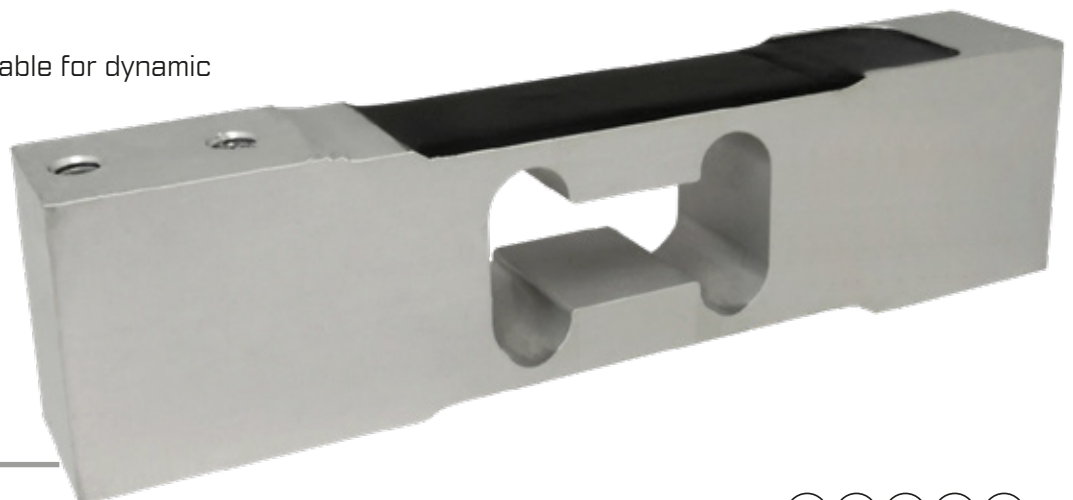
Bench Scale
Counting Scale
Grocery Scale

■ PROTECTION

Developed in aluminum, IP66 protection, with a humidity resistant protective coating assures long term stability over the entire compensated temperature range.

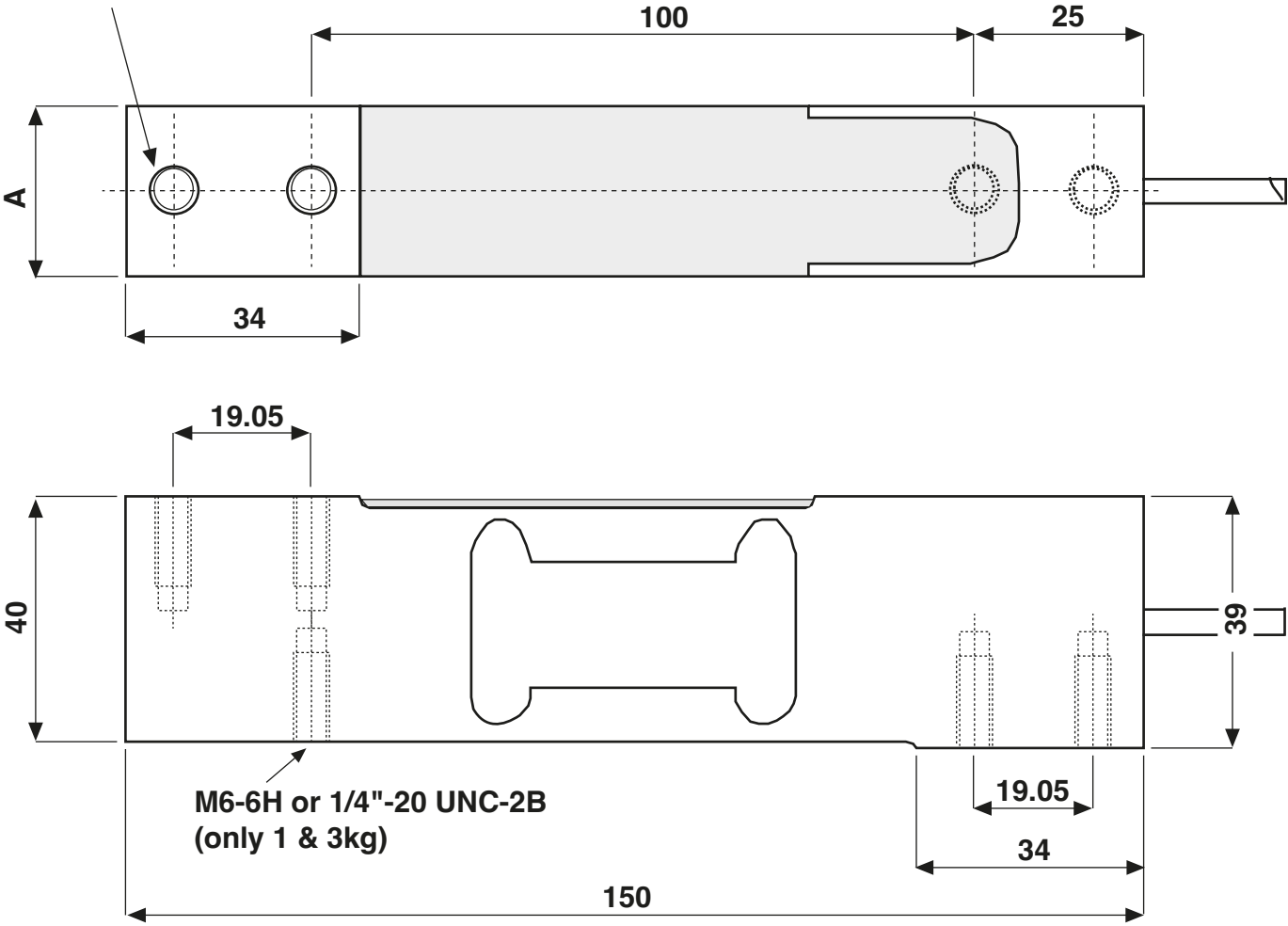
■ OPTIONAL FEATURES

- EEx ia IIC T4 hazardous area approval
- FM approval available
- High stiffness version available for dynamic weighing applications.



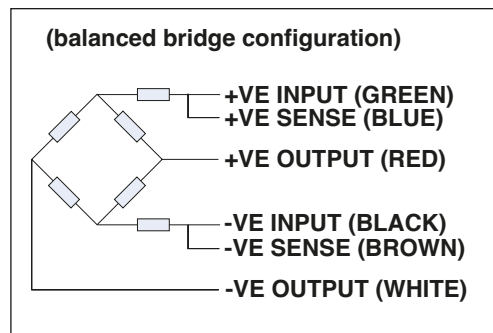
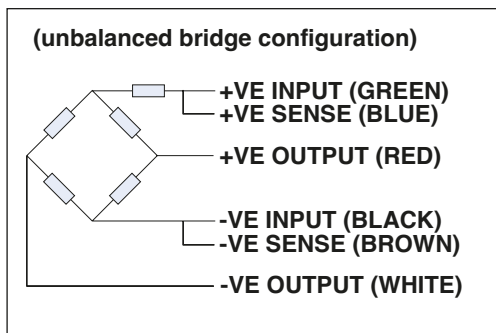
OUTLINE DIMENSIONS (in millimeters)

4 Mounting holes
M6-6H or 1/4"-20 UNC-2B



Capacities	A
1-30	20
50-200	25.4

WIRING SCHEMATIC DIAGRAM



TECHNICAL DATA

PARAMETER	VALUE				UNITS
Rated capacity-R.C. (E_{max})	1, 3, 5, 7, 10, 15, 20, 30, 50, 75, 100, 150, 200				kg
NTEP/OIML Accuracy class	NTEP	Non-Approve	C3*	C6**	
Maximum no. of intervals (n)	5000 single	1000	3000	6000	
$Y = E_{max}/V_{min}$	10000	1400	6000	1000	Maximum available 20000
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.	0.0330	0.0300	0.0170	0.0083	±% of applied load
Total Error (per OIML R60)	0.0200	0.0500	0.0200	0.0100	±% of rated output
Temperature effect on zero	0.0023	0.0100	0.0023	0.0014	±% of rated output/°C
Temperature effect on output	0.001	0.0030	0.0010	0.00058	±% of applied load/°C
Eccentric loading error	0.0049	0.0074	0.0049	0.0024	±% of rated load/cm
Temperature range, compensated	-10 to +40				°C
Temperature 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	415±20				Ohms
Output impedance	350±3				Ohms
Insulation resistance	>2000				Mega-Ohms
Cable length	1***				m
Cable type	6wire, PVC, single floating screen				Standard
Construction	Plated (anodize) aluminum				
Environmental protection	IP66				
Platform size (max)	400 x 400				mm
Recommended torque	Up to 30kg: 7.0 35kg & above: 10.0				N*m

* 50% utilization

** 60% utilization

*** Features balanced bridge configuration and side cable entry

PART NUMBER

Products	Capacities	Codes
Load Cell 1042	1kg	10040
Load Cell 1042	3kg	10041
Load Cell 1042	5kg	10042
Load Cell 1042	7kg	10043
Load Cell 1042	10kg	10044
Load Cell 1042	15kg	10045
Load Cell 1042	20kg	10046
Load Cell 1042	30kg	10047
Load Cell 1042	50kg	10048
Load Cell 1042	75kg	10049
Load Cell 1042	100kg	10050
Load Cell 1042	150kg	10051
Load Cell 1042	200kg	10052

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MORE INFO



PRODUCT PAGE