

## Single Point Aluminum Load Cell



### FEATURES

- Capacity range: 3 - 200kg
- Only 22 mm high
- Aluminum construction
- Single point 350 x 350mm platform
- IP66 protection
- OIML R60 and NTEP approved

### OPTIONAL FEATURES

- EEx ia IIC T4 - ATEX hazardous area approval
- FM approval
- Symmetric configuration available

### DESCRIPTION

Model 1022 is a low profile single point load cell designed for direct mounting in low cost weighing platforms.

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

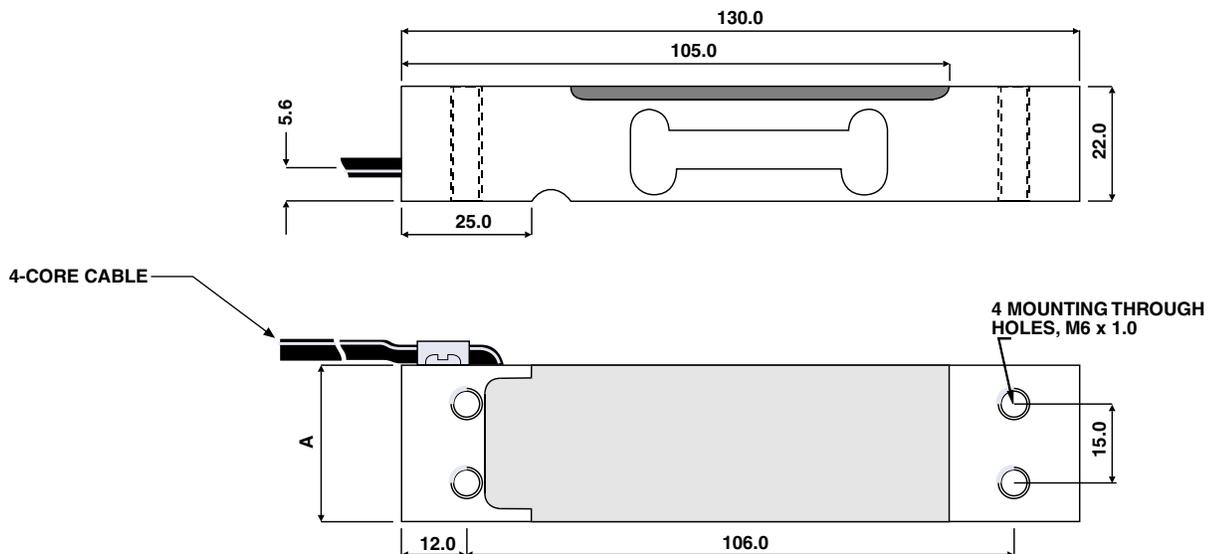
Using 1022 load cells simplifies scale construction, which results in significant parts and labor savings.

Available in a range of capacities, from 3 to 200kg and approved to OIML R60 (4000d) or NTEP (5000d, single). Environmental protection to IP66 is provided as standard. For hazardous environments, ATEX EEx ia IIC T4 approved versions are available.

### APPLICATIONS

- Bench scales
- Counting scales
- Grocery scales

### OUTLINE DIMENSIONS in mm



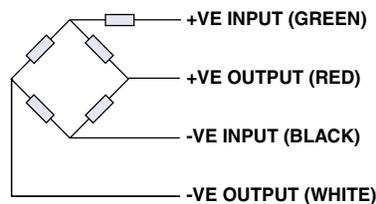
CAPACITY	A
3, 5, 7kg	25.4
10, 15, 20, 30kg	30.0
35 - 200kg	40.0

**SPECIFICATIONS**

PARAMETER	VALUE				UNIT
Rated capacity-R.C. ( $E_{max}$ )	3, 5, 7, 10, 15, 20, 30, 35, 50, 100, 150, 200***				kg
NTEP/OIML Accuracy class	NTEP	Non-Approved	C3*	C4	
Maximum no. of intervals (n)	5000 single**	1000	3000	4000	
$Y = E_{max}/V_{min}$	10000	1400	6000	10000	Maximum available 12000
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	0.0125	±% of applied load
Total Error (per OIML R60)	0.0200	0.0500	0.0200	0.0150	±% of rated output
Temperature effect on zero	0.0023	0.0100	0.0023	0.0014	±% of rated output/°C
Temperature effect on output	0.0010	0.0030	0.0010	0.00075	±% of applied load/°C
Eccentric loading error	0.0057	0.0085	0.0057	0.0042	±% 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±15				Ohms
Output impedance	350±3				Ohms
Insulation resistance	>2000				Mega-Ohms
Cable length	0.5				m
Cable type	4 wire, PVC, single floating screen				Standard
Construction	Aluminum				
Environmental protection	IP66				
Platform size (max)	350 x 350				mm
Recommended torque	Up to 30kg: 7.0 35kg & up: 10.0				N*m

- \* 50% utilization
- \*\* Also available at 50% utilization
- \*\*\* 150-200kg are not approved by NTEP, 200kg is not approved by OIML

**WIRING SCHEMATIC DIAGRAM  
(UNBALANCED BRIDGE CONFIGURATION)**



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