

Single Point Aluminum Load Cell



FEATURES

- Capacities 3 - 35kg
- Only 22mm 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
- Capacities 50-200 kg available with non-approved specifications

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.

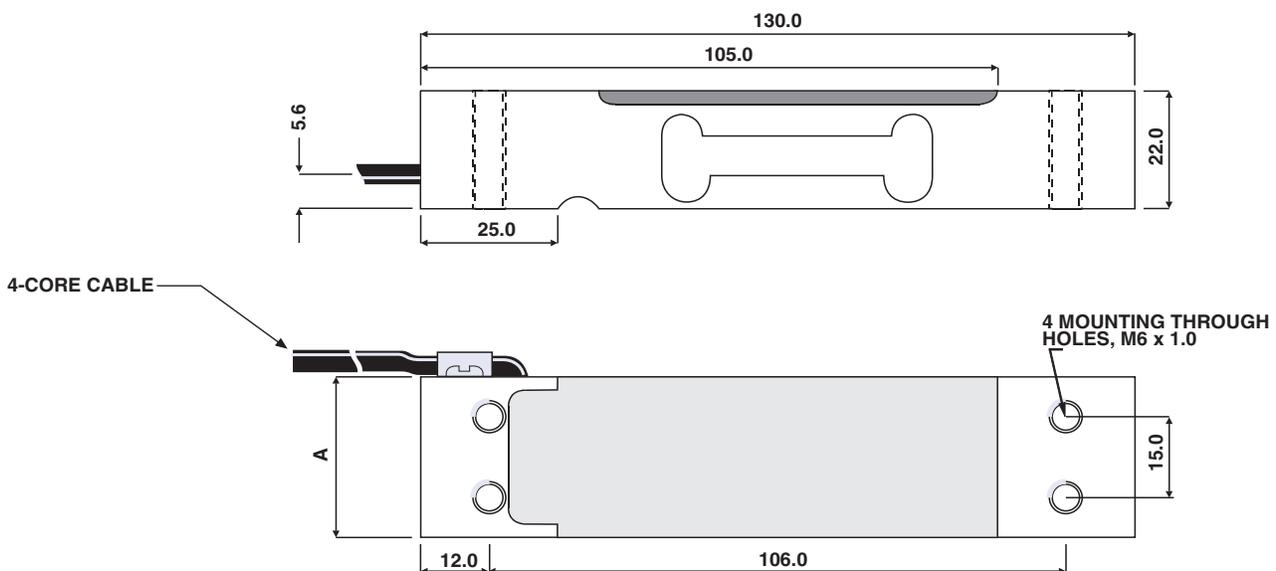
Using 1022 load cells simplifies scale construction, which results in significant parts and labor savings.

Available in a range of capacities, from 3 to 35kg 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 millimeters



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

SPECIFICATIONS

PARAMETER	VALUE			UNITS
	NTEP	Non Approved	C3*	
NTEP/OIML Accuracy class				
Maximum no. of intervals (n)	5000 single**	1000	3000***	
Rated capacity-R.C. (E_{max})	3, 5, 7, 10, 15, 20, 30, 35, 50, 100, 150, 200****			kg
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	± % of applied load
Total Error (per OIML R60)	0.0200	0.0500	0.0200	± % of rated output
Temperature effect on zero	0.0023	0.0100	0.0023	± % of rated output/°C
$Y = E_{max}/V_{min}$	15000	3333	10000	
Temperature effect on output	0.0300			± % of applied load/°C
Eccentric loading error	0.0057	0.0085	0.0057	± % of rated load/cm
Temp. range, compensated	-10 to +40			°C
Temp. 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	385 ± 10			Ohms
Output impedance	351 ± 5			Ohms
Insulation resistance	> 2000			Mega-Ohms
Cable length	1.0			m
Cable type	0.5 meter, 4 wire, PVC, single floating screen			Standard
Construction	Aluminum			
Environmental protection	IP66			
Platform size (max)	350 x 350			mm
Recommended torque	Up to 30 kg: 7.0 35 kg & up: 10.0			N·m

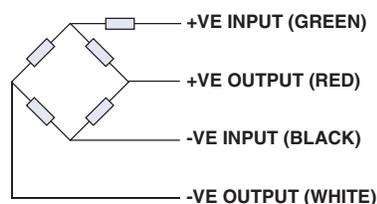
* 50% utilization

** Also available at 50% utilization

*** Also available in 4000 divisions in non symmetric version

**** 50-200 kg are not approved by OIML and NTEP

WIRING SCHEMATIC DIAGRAM
(UNBALANCED BRIDGE CONFIGURATION)



VISHAY TRANSDUCERS (VT) - SALES OFFICES



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