Models 1022

Tedea-Huntleigh

Single-Point Aluminum Load Cell

FEATURES

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

OPTIONAL FEATURE

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

DESCRIPTION

Model 1022 is a low profle 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.

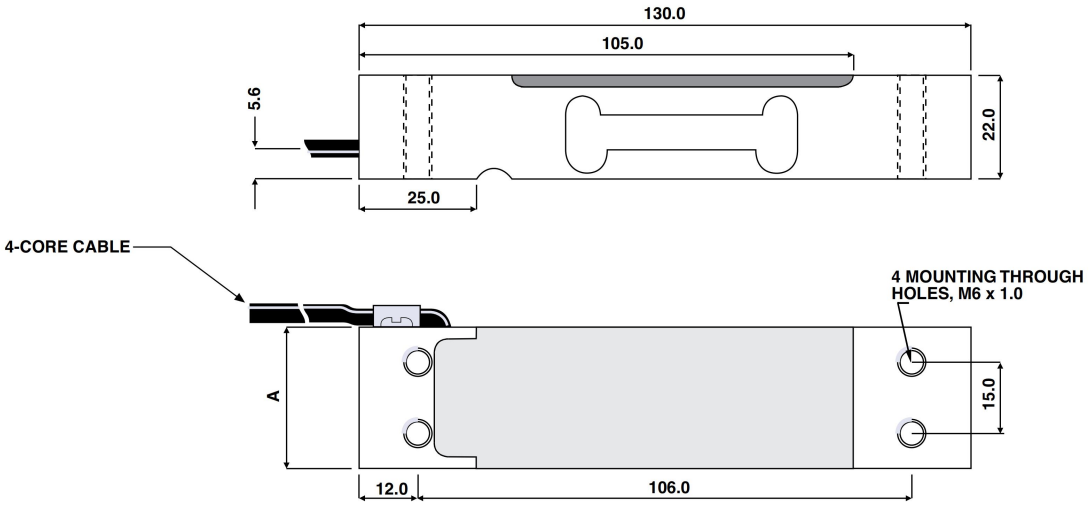
Using 1022 load cells simplifes scale constr uction, which results in signifcant parts and l abor savings.

Model 1022 is available in a range ofcapacit ies, from 3 to 200 kg and approved to OIML R60 (4000d) or NTEP (5000d, single). Envi ronmental protection to IP66 is provided as standard. For hazardousenvironments, ATE X EEx ia IIC T4 approved versions are avail able.

APPLICATIONS

- Bench scales
- Counting scales
- Grocery scales

OUTLINE DIMENSIONS in mm



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

All dimensions in mm

Document Number: 04058
Revision: 17-Feb-10

SPECIFICATIONS

PARAMETER	VALUE				UNIT
Rated capacity—R.C. (Emax)	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 = Emax/Vmin	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 rated output/°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 foating screen				Standard
Construction	Aluminum				
Environmental protection	IP66				
Platform size (max)	350 x 350				mm
Recommended torque	Up to 30 kg: 7.0 35 kg and up: 10.0				mm

* 50% utilization
** Also available at 50% utilization
*** 150–200 kg are not approved by NTEP, 200 kg is not approved by OIML
All specifcations subject to change without notice.

Wiring Schematic Diagram
(Balanced bridge configuration)