Sasco Africa™

Accurately Weighing Africa

VISHAY®

Sasco Weighing Warehouse

1022

Single-Point Aluminum Load Cell

Sasco is a dynamic weighing solutions focused company which procures and supports a leading range of globally sourced industrial weighing technologies. Sasco has the highest metrological ranking of any Southern and Central African company, and as a result of our experience gained through 100 years of operation, we are uniquely positioned to specify and supply optimal weighing equipment, automation and weighing information data solutions to Southern and Central Africa's leading industrial companies. Sasco reputation has been built on innovation and choice underpinned by professionalism, modernity and experience.

GENERAL

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. Model 1022 is available in a range of capacities, from 3 to 200 kg and approved to OIML R60 (4000d) or NTEP (5000d, single).

OIML NTEP ATEX FM

Environmental protection to IP66 is provided as standard. For hazardous environments, ATEX EEx ia IIC T4 approved versions are available.

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 FEATURES

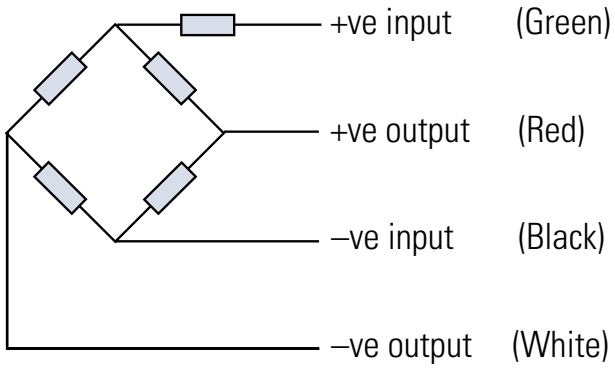
- EEx ia IIC T4 - ATEX hazardous area approval
- FM approval
- Symmetric configuration available

APPLICATIONS

- Low profile platforms
- Loss-in-weight feeders
- Marine and hybrid scales
- Belt weighers
- Food industry harsh environment

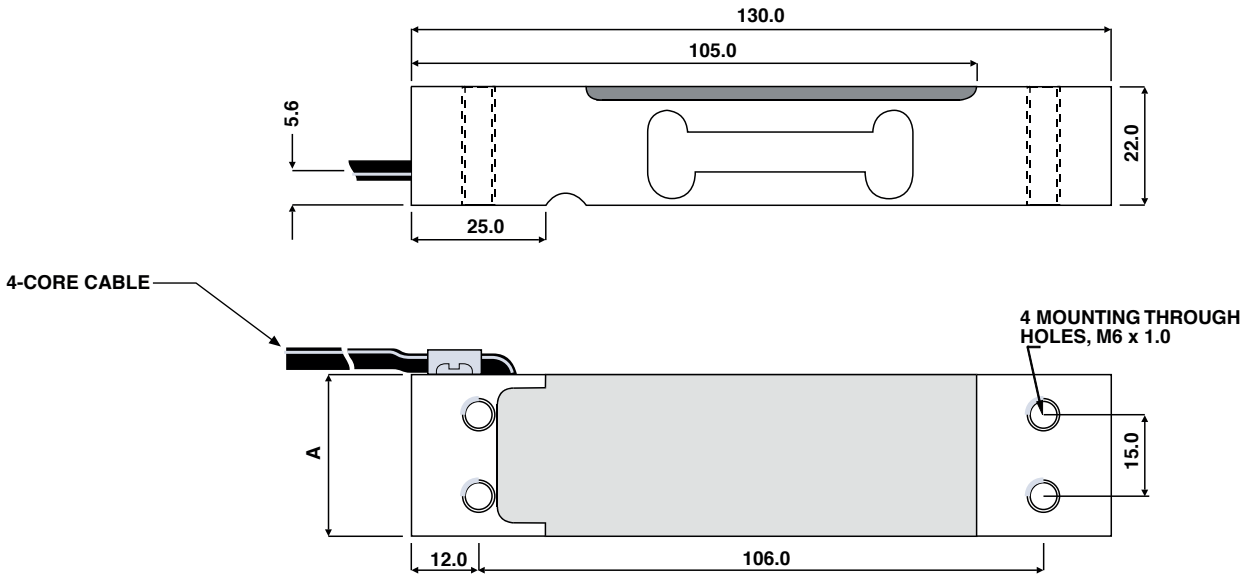
WIRING SCHEMATIC DIAGRAM

(Unbalanced bridge configuration)



OUTLINE DIMENSIONS - In millimeters

	A
3, 5, 7 kg	25.0
10, 15, 20, 30 kg	30.0
35-200kg	40.0



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				Ω
Output impedance	350±3				Ω
Insulation resistance	>2000				MΩ
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 30 kg: 7.0 35 kg and up: 10.0				N*m

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

All specifications subject to change without notice.

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