

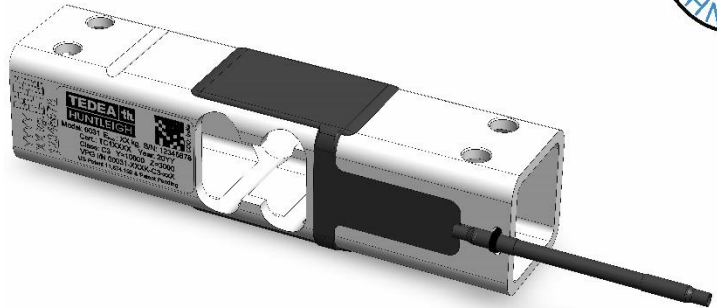


Patented Medium Profile Aluminum Load Cell



FEATURES

- Capacities 10–40 kg
- Aluminum construction
- Single-point 350 x 350 mm platform
- US Patent 11,874,192 & Patent pending
Elongated Hollow Beam technology
- NTEP, ATEX, IECEx, UKCA, & FM Approved
- OIML R60, approval pending
- IP66 protection



APPLICATIONS

- Bench scales
- Counting scales
- Stocking scales

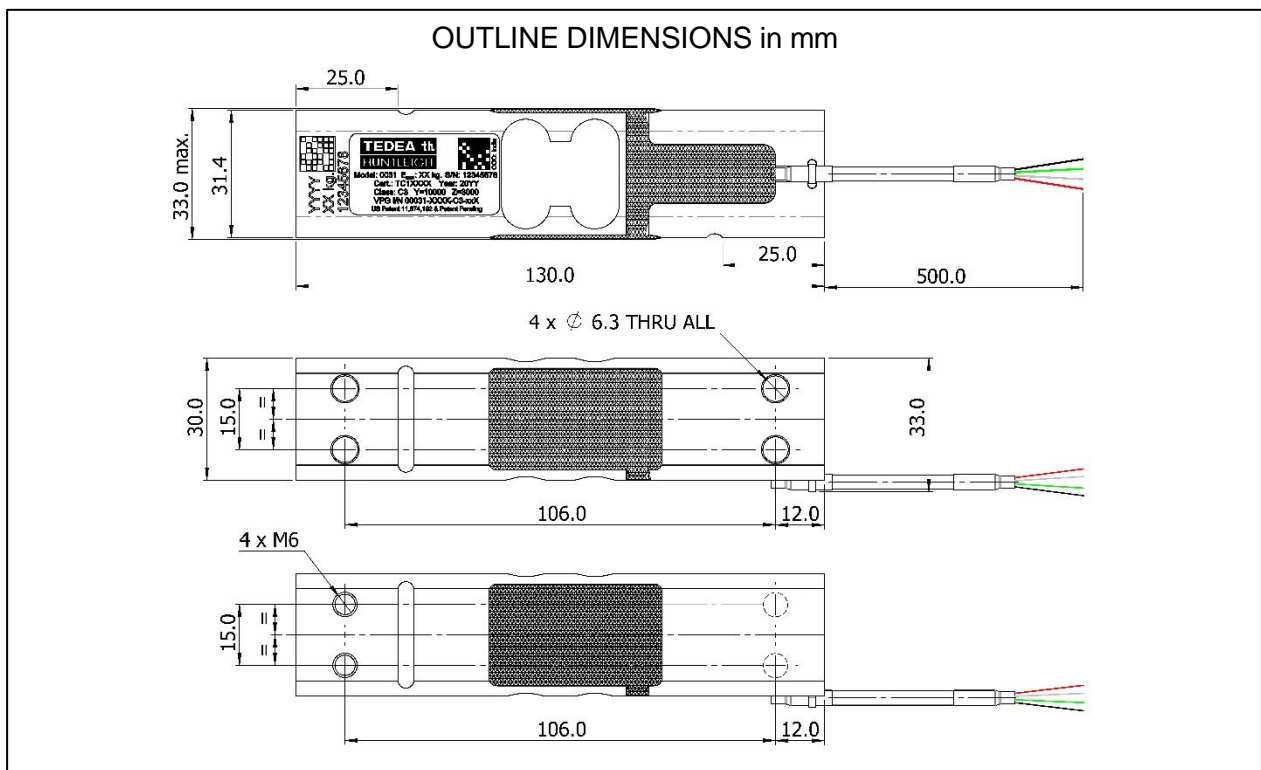
DESCRIPTION

Model 0031 is a medium-profile, medium-width single-point load cell designed for direct mounting in weighing scales/platforms. Leveraging vLite™ technology, it is constructed from aviation-grade metal, with a hollow beam.

Its compact physical size and light weight, combined with high accuracy and low cost, make this load cell ideally suited for stocking, bench and counting scales.

Supplied as standard in anodized aluminum, this high-accuracy load cell is NTEP approved and OIML pending approval.

A proprietary triple-redundant humidity-resistant protective construction assures long-term stability over a wide range of environmental conditions.



Patented Medium Profile Aluminum Load Cell



SPECIFICATIONS					
PARAMETER	VALUE				UNIT
Rated capacity - R.C. (E_{max})	10, 15, 20, 30, 40				kg
NTEP/OIML accuracy class ⁽¹⁾	NTEP	Non-Approved	C3 ⁽²⁾	C3MR10 ⁽³⁾	
Maximum no. of intervals _(n)	5000 single	1000	3000	3000	
$Y = E_{max}/V_{min}$	10000	2000	6000	10000	Maximum available 15000 ⁽¹⁾
Rated output - R.O.	2.0				mV/V
Rated output tolerance	0.2				±mV/V
Zero balance	0.1				±mV/V
Zero return, 30 min.	0.0100	0.0500	0.0170	0.0170	±% of applied load
Total error (per OIML R60)	0.0200	0.0300	0.0200	0.0200	±% of rated output
Temperature effect on zero	0.0014	0.0070	0.0023	0.0014	±% of rated output/°C
Temperature effect on output	0.0010	0.0030	0.0010	0.0010	±% of applied load/°C
Eccentric loading error	0.0048	0.0085	0.0057	0.0057	±% of rated load/cm
Maximum rec. platform size	35 x 35				cm
Temp. range, compensated	-10 to +40				°C
Temp. range, safe & storage	-30 to +70				°C
Maximum safe central overload	150				% of R.C.
Ultimate central overload	250				% of R.C.
Excitation, recommended	10				VDC or VAC RMS
Excitation, range	5...15				VDC or VAC RMS
Input impedance	350...445				Ω
Output impedance	349...360				Ω
Insulation resistance	>2000				MΩ @50 VDC
Cable length	0.5				m
Cable type	4 ⁽⁴⁾ wire, shielded, PVC jacket, floating shield				Standard
Construction	Anodized aluminum				
Environmental protection	IP66				
Recommended mounting torque	10.0				N*m

⁽¹⁾ OIML approvals pending

⁽²⁾ 50% utilization

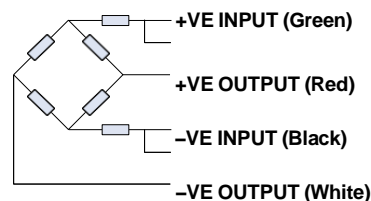
⁽³⁾ 30% utilization

⁽⁴⁾ Options: 6-wire cable

All specifications subject to change without notice.



WIRING SCHEMATIC DIAGRAM
 (Balanced bridge configuration)



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