

High Capacity Off-Center Single-Point Load Cell



FEATURES

- Capacities: 0.6 to 200 kg
- Small size with low profile
- Anodized aluminum
- NTEP Class III 5000S approval from 3 kg to 30 kg
- OIML C3 approval from 6 kg to 35 kg
- Platform size: 16"x16"/ 40 cm x 40 cm

OPTIONAL FEATURE

- FM approval available

DESCRIPTION

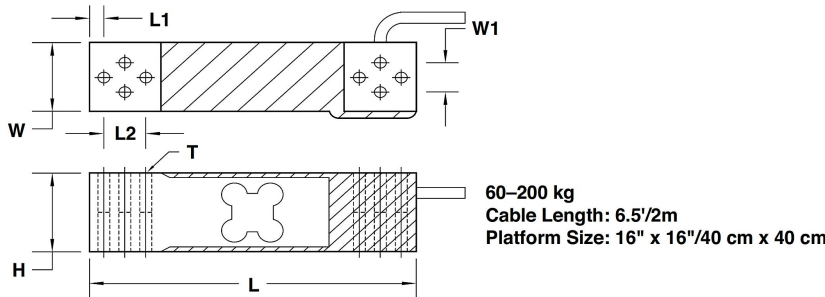
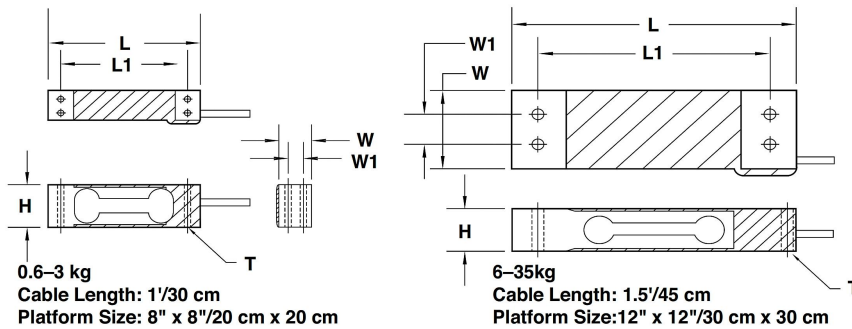
LPS is designed for electronic scales and platform scales where only one load cell can be used and low profile is required. It is the lightest model of Celtron single-point load cell family. The design is most suitable for mass production operations.

LPS is constructed of anodized aluminum and is fully potted IP66 levels, providing excellent protection against moisture ingress.

APPLICATIONS

- In-motion check weigher
- Packaging machines
- Dosing/filling
- Belt scales/conveyor scales
- Retail scales/counting scales

OUTLINE DIMENSIONS in mm



Wiring Diagram

- +Excitation (Red)
- Excitation (Black)
- +Signal (Green)
- Signal (White)

CAPACITY (kg)		L	L ₁	L ₂	W	W ₁	H	T
0.6/1/2/3	mm	70.0	58.0	–	15.0	7.0	22.0	M3 x 0.5
	(inch)	2.76	2.28	–	0.59	0.28	0.87	
6/10/15/20	mm	130.0	106.0	–	30.0	15.0	22.0	M6 x 1.0
	(inch)	5.12	4.17	–	1.18	0.59	0.87	
30/35	mm	130.0	106.0	–	40.0	15.0	22.0	M6 x 1.0
	(inch)	5.12	4.17	–	1.57	0.59	0.87	
60/100/200	mm	150.0	7.0	19.0	35.0	15.0	40.0	M6 x 1.0
	(inch)	5.91	0.28	0.75	1.38	0.59	1.57	

All dimensions in mm

**SPECIFICATIONS**

PARAMETER	VALUE			UNIT
	NTEP III	Non-Approved	C3	
NTEP/OIML accuracy class	NTEP III	Non-Approved	C3	
Maximum no. of intervals (n)	5000 single ¹	1000	3000 ²	
Y = Emax/Vmin	8000	1400	6000	Maximum available 12000
Standard capacities (Emax)	0.6, 1, 2, 3, 6, 10, 15, 20, 30, 35, 60, 100, 200			kg
Rated output—R.O.	2.0 ³			mV/V
Rated output tolerance	10			±% of rated output
Zero balance	3			±% of rated output
Non-linearity	0.025	0.030	0.020	±% of rated output
Hysteresis	0.025	0.030	0.020	±% of rated output
Non-repeatability	0.020			±% of rated output
Creep error (20 minutes)	0.030	0.030	0.017	±% of rated output
Zero return (20 minutes)	0.030	0.030	0.017	±% of rated output
Temperature effect on min. dead load output	0.0026	0.0026	0.014	±% of rated output/°C
Temperature effect on sensitivity	0.0015	0.0015	0.008	±% of rated output/°C
Compensated temperature range	-10 to +40			°C
Operating temperature range	-20 to +60			°C
Safe overload	150			% of R.C.
Ultimate overload	200			% of R.C.
Excitation, recommended	10			VDC or VACRMS
Excitation, maximum	15			VDC or VACRMS
Input impedance	410±10			
Output impedance	350±3			
Insulation resistance	>5000			M
Construction	Anodized aluminum			
Environmental protection	IP66			

Notes

- (1) Capacities 3–30 kg
- (2) Capacities 6–35 kg
- (3) 1 mV/V for 1 kg and below

All specifications subject to change without notice.

FM Approval

Intrinsically Safe: Class I, II, III; Div. 1 Groups A-G

Non-Incendive: Class I; Div. 2 Groups A-D