

## Low Profile Single-Point

### 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**
  - FM approval available



### APPLICATIONS

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



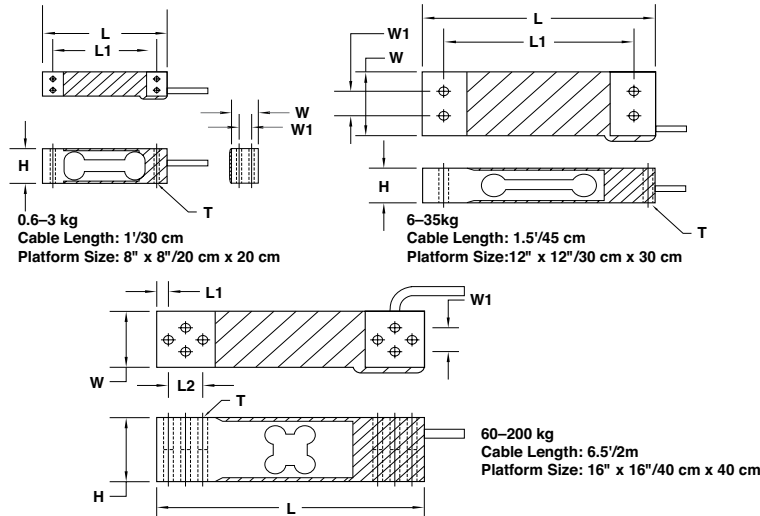
### DESCRIPTION

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.

### OUTLINE DIMENSIONS



#### Wiring diagram

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

CAPACITY (kg)		L	L <sub>1</sub>	L <sub>2</sub>	W	W <sub>1</sub>	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	

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

**Notes**

<sup>(1)</sup> Capacities 3–30 kg

<sup>(2)</sup> Capacities 6–35 kg

<sup>(3)</sup> 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

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