Celtron



Low-Profile Single Point



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 ingression.

FEATURES

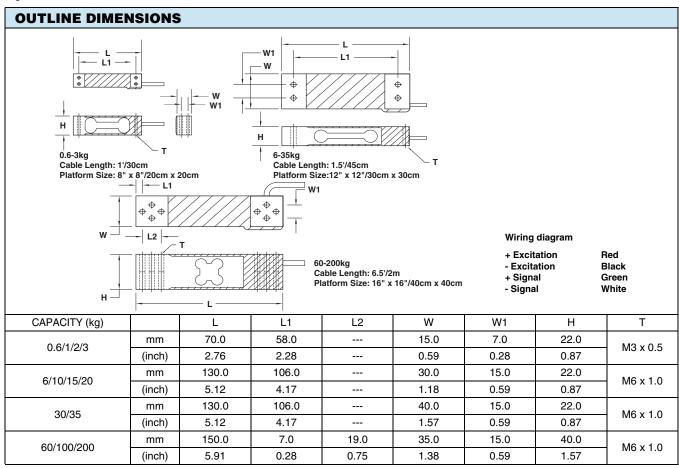
- Capacities: 0.6 to 200kg
- Small size with low profile
- Anodized aluminum
- NTEP Class III 5000S approval from 3kg to 30kg
- OIML C3 approval
- Platform size: 16"x16"/ 40cm x 40cm

OPTIONAL FEATURE

• FM approval available

APPLICATIONS

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



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| PARAMETER | VALUE | | | UNIT |
|---|---|--------------|----------|-------------------------|
| NTEP/OIML Accuracy class | NTEP III | Non-Approved | C3 | |
| Maximum no. of intervals (n) | 5000 single ⁽¹⁾ | 1000 | 3000 (2) | |
| $Y = E_{ma}x/V_{min}$ | 8000 | 1400 | 6000 | Maximum available 12000 |
| Standard capacities (E _{max}) | 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 applied load/°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 Vac rms |
| Excitation, maximum | 15 | | | Vdc or Vac rms |
| Input impedance | 410±10 | | | Ohms |
| Output impedance | 350±3 | | | Ohms |
| Insulation resistance | >5000 | | | Mega-Ohms |
| Construction | Anodized aluminum | | | |
| Environmental protection | IP66 | | | |

Notes

(1) Capacities 3-30kg

(2) Capacities 6-35kg

⁽³⁾ 1mV/V for 1kg 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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