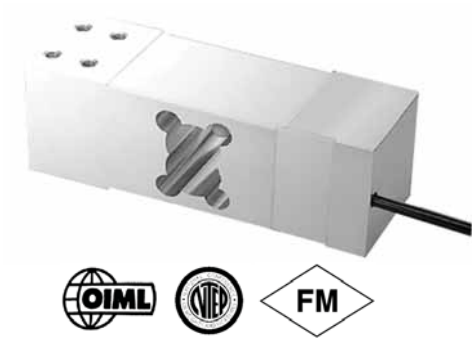
# Model LOC

Vishay Celtron

## Low-Profile Off Center Single Point



### FEATURES

- Capacities: 5 to 1000kg
- Cost-effective load cell for scales of simple construction
- Anodized aluminum alloy
- NTEP Class III 5000S approval from 5kg to 500kg
- OIML C3 approval from 5kg to 500kg
- OIML C6 approval from 500kg to 1000kg
- Platform size:16" x 24"/40cm x 60cm

### OPTIONAL FEATURE

- FM approval available

### DESCRIPTION

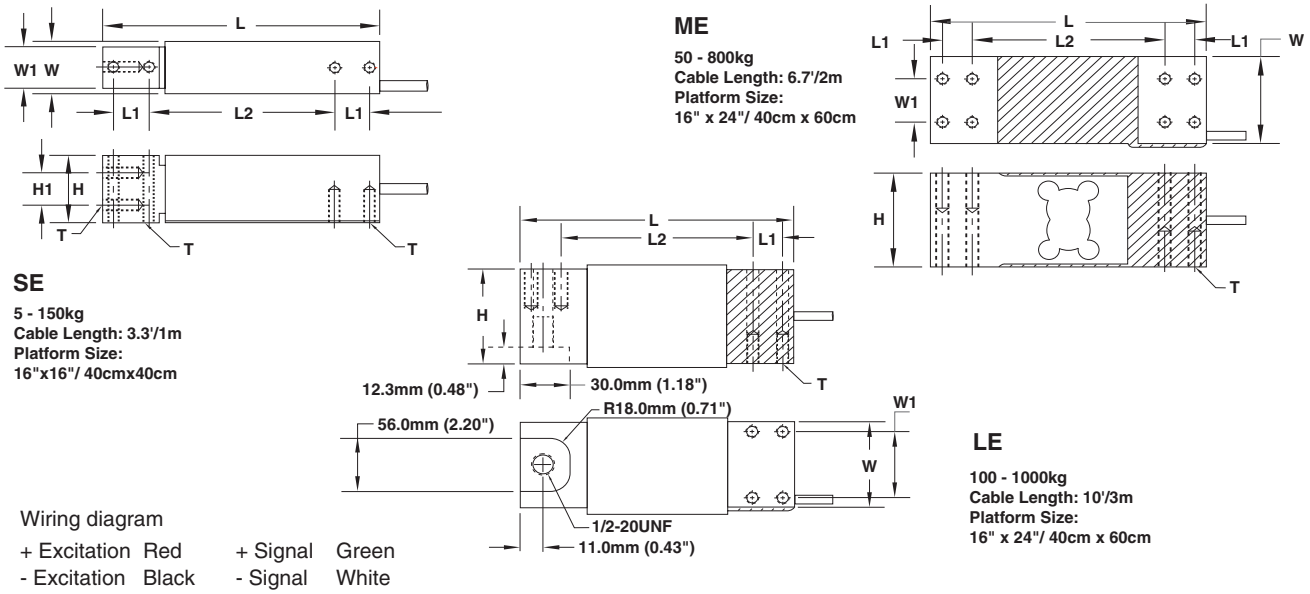
LOC is a single-point low profile load cell designed for platform scales and hanging scales. It is a cost-effective load cell for scales of simple construction.

LOC is constructed of anodized aluminum, and is environmentally sealed up to IP66 levels providing excellent protection against moisture and humidity.

### APPLICATIONS

- Platform scales (single load cell)
- Packaging machines
- Dosing / filling
- Belt scales / conveyor scales
- In-motion check weigher

### OUTLINE DIMENSIONS




Wiring diagram

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

| | CAPACITY (kg) | | L | L1 | L2 | W | W1 | H | H1 | T |
|---|---|---|---|---|---|---|---|---|---|---|
| SE | 5/ 7/ 10/ 15/ 20/ 30/ 50/ 60/ 75/ 100/ 150 | mm | 150.0 | 19.0 | 100.0 | 30.0 | 24.0 | 39.5 | 19.0 | M6x1.0 |
| | | (inch) | 5.91 | 0.75 | 3.94 | 1.18 | 0.94 | 1.56 | 0.75 | 1/4-20UNF |
| ME | 50/ 100/ 150/ 250/ 300/ 500/ 635/ 800<br>45A/ 100A/ 150A/ 250A/ 300A/ 500A/ 635A | mm | 174.0 | 19.0 | 122.0 | 60.0 | 30.0 | 65.0 | - | M8 x 1.25 |
| | | (inch) | 6.85 | 0.75 | 4.80 | 2.36 | 1.18 | 2.56 | - | 5/16-18UNC |
| LE | 100/ 250/ 100A/ 150A/ 250A/ 300A/ 500A/<br>635A/ 800A/ 1000A | mm | 191.0 | 25.0 | 125.0 | 76.2 | 60.0 | 75.0 | - | |
| | | (inch) | 7.52 | 0.98 | 4.92 | 3.00 | 2.36 | 2.95 | - | 5/16-18UNC |

*A: American Standard Thread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## SPECIFICATIONS

| PARAMETER | VALUE | | | | UNIT |
|---|---|---|---|---|---|
| **NTEP/OIML Accuracy class** | **NTEP III** | **Non-Approved** | **C3** | **C6** | |
| **Maximum no. of intervals (n)** | 5000 single* | 1000 | 3000** | 6000*** | |
| **$Y = E_{max}/V_{min}$** | 8000 | 5000 | 10000 | 12000 | Maximum available |
| **Standard capacities ($E_{max}$)** | 5, 7, 10, 15, 20, 30, 50, 60, 75, 100, 150, 250, 300, 500, 635, 800, 1000 | | | | kg |
| **Rated output-R.O.** | 2.0 | | | | mV/V |
| **Rated output tolerance** | 10 | | | | ±% of rated output |
| **Zero balance** | 1 | | | | ±% of rated output |
| **Non linearity** | 0.020 | 0.025 | 0.020 | 0.015 | ±% of rated output |
| **Hysteresis** | 0.020 | 0.025 | 0.020 | 0.015 | ±% of rated output |
| **Non-repeatability** | 0.020 | | | | ±% of rated output |
| **Creep error (20 minutes)** | 0.025 | 0.030 | 0.020 | 0.015 | ±% of rated output |
| **Zero return (20 minutes)** | 0.025 | 0.030 | 0.020 | 0.015 | ±% of rated output |
| **Temperature effect on min. dead load output** | 0.0022 | 0.0026 | 0.0014 | 0.0012 | ±% of rated output/°C |
| **Temperature effect on sensitivity** | 0.0010 | 0.0015 | 0.008 | 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 | | | | |

* Capacities 5 - 500kg
** Capacities 5 - 500kg
*** Capacities 500 - 1000kg

All specifications listed 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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