

# MAXCESS®

MAGPOWR

The new Digital Load Cell Amplifier (DLCA) is a low cost, yet powerful and versatile DIN rail mounted digital amplifier used to multiply a millivolt tension signal to a usable 0 to 10 VDC and 4 to 20 mADC analog output.

The DLCA is compact in size, but incorporates ease of use and setup with three push buttons and a four-segment display, fully programable low pass filter for each output, tension alarm set points, quick and easy calibration and weightless load cell calibration.

These features, combined with superior drift and linearity performance, make the DLCA an easy choice when needing a tension reference to a drive or PLC for displaying or controlling tension.



## GENERAL SPECIFICATIONS

**Product Name:**

DLCA, Digital Load Cell Amplifier

**Supply Power:**

24 VDC, +/- 10%, 0.14 ADC maximum

**Inputs:**

Load Cell Excitation:  
5 or 10 VDC, 100 mADC maximum

**Load Cell Sensitivity:**

1.5 to 100 mV/V single sensor or pair

**Digital Input (re-zero):**

24 VDC maximum  
5 VDC or 24 VDC selectable threshold

**Outputs:**

**Analog Outputs**

0 to 10 VDC, 2 kohm minimum load  
4 to 20 mADC, 450 ohm maximum load

**Reference Meter output**

0 to 1 mADC, 1 kohm maximum load or 0 to 10 VDC, open circuit

**Alarm Output**

30 VDC maximum, 0.4 ADC maximum

**Gain:**

32:1

**Display:**

4 digit LED

**Enclosure:**

IP20

**Certifications:**

CE (EN61326-1),  
TUV Mark (UL61010-1),  
CAN/CSA-C22.2# 61010-1,  
CB to IEC 61010-1  
RoHS

**Temperature Range:**

Operating: 0 to 50 degrees C,  
(32 to 122 degrees F)

Storage: -20 to 80 degrees C,  
(-4 to 176 degrees F)

**Climatic Class:**

3K3 (EN60721)

**Relative Humidity:**

5% to 85%

**Pollution Degree:**

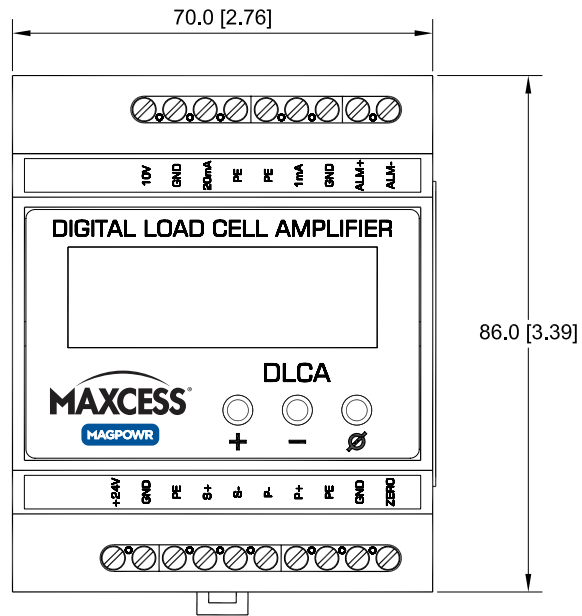
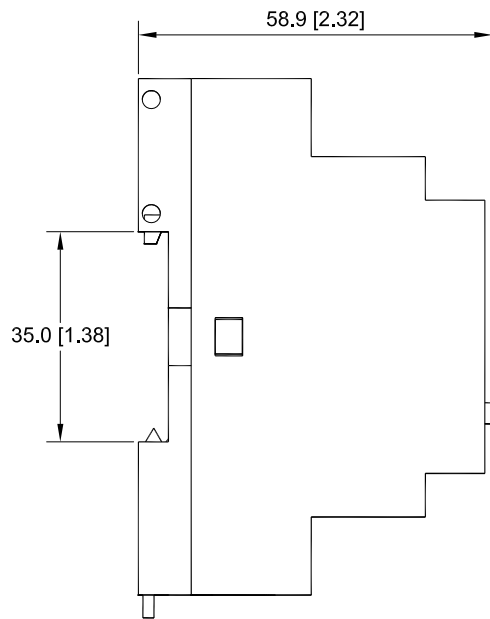
2 (IEC664-1)

## KEY FEATURES

- Compact enclosure requires minimal space (same as LCA)
- Setup and calibration through three push buttons and digital display
- Weightless load cell calibration
- 0 to 10 VDC or 4 to 20 mADC outputs
- Current output can be adjusted to 0 to 20 mADC or 0 to 10 mADC
- Meter reference output is 0 to 10 VDC or 0 to 1 mADC
- Outputs and display have fully adjustable and separate digital filtering
- One push button for re-zeroing, with optional input for remote re-zeroing
- Alarm output configurable for high tension, low tension, high and low tension or in between high and low tension
- Works with 5 and 7.5 volt excitation sensors with 1.5 to 100 mV/V signals
- 32:1 gain adjustment
- Automatic load cell diagnostics/fault indicator
- Can zero out Idler Roll weight up to 90% of load cell rating

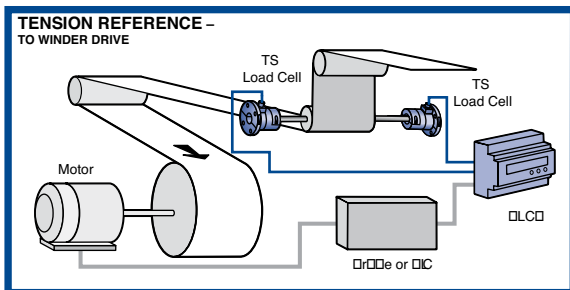
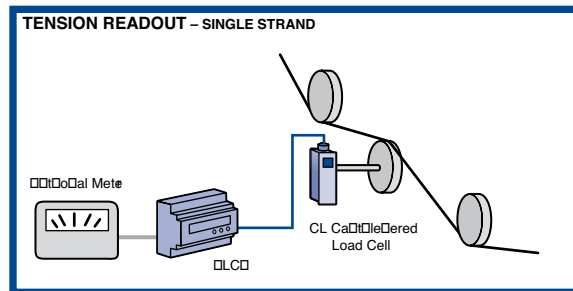
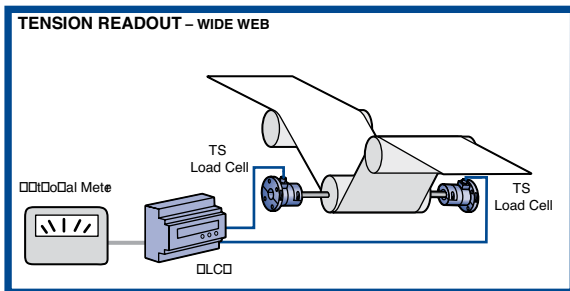
# DIGITAL LOAD CELL AMPLIFIER

## DIMENSIONS



Dimensions shown in mm (inches)

## TYPICAL APPLICATION



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