MAGPOWR TLCA THIN LOAD CELLS



The MAGPOWR TLCA load cells are extremely accurate devices used to measure web tension in any unwind, rewind or intermediate web processing application.

The TLCA line of load cells deliver precise web tension with low temperature drift due to a full Wheatstone bridge construction. The load cells allow measurement and 10 times overload protection in both force directions.



With a low profile design, space between the machine frames

dedicated to the load cell is minimized. The load cells can also be mounted on the outside of the machine frames, eliminating any space required for the load cells.

The TLCA can be flange mounted to any vertical machine surface or on top of horizontal surfaces utilizing the optional pillow block bracket.

GENERAL SPECIFICATIONS

Gage Resistance 350Ω nominal

Excitation Voltage

Output Signal 1.5 mV/V at rated force, 15 mVDC max.

Operating Temperature -20°C to 80°C

Combined non-linerity and hysteresis 0.5% of full scale maximum

Temperature effect on zero 0.02% of rating per ℃

Repeatability 0.2% of full scale maximum Material Beam: Nickel plated steel Covers: Nickel plated aluminum **Overload Stops Engagement** 105% to 150% of full load rating **Overload Protection** 1000% of full load rating **Deflection at Full Load** 0.17mm Cable MAGPOWR mating cable LCC series, or mating connector part #12B220-1 **Climate Class** 3K3 (EN60721) Certifications IP-54, RoHS

KEY FEATURES

- Ruggedly constructed from steel for long life and dependability
- 10x mechanical overload protection
- Six load ratings from 50 to 1000N
- Full Wheatstone bridge design for measurement accuracy and low temperature drift
- Three or four hole bolt circle for mounting
- Flange mounting inside or outside of machine frame
- Additional mounting option with pillow block

DIMENSIONS

Dimensions in mm



1 Force can be measured toward connector or away from connector

DIMENSIONS PILLOW BLOCK BRACKETS

TLCA load cell rotates in 30° steps Dimensions in mm





MOUNTING OPTIONS

Flange Mount on vertical machine frames





Inside frame

Outside frame

Pillow Block on horizontal machine frames





Outside brackets

MODEL NUMBER KEY



AVAILABLE MODELS

PART NUMBER	MODEL NUMBER	LOAD RATING [N]
M388754	TLCA-50-EC12M	50
M396651	TLCA-100-EC12M	100
M388483	TLCA-250-EC12M	250
M380391	TLCA-500-EC12M	500
M444315	TLCA-750-EC12M	750
M439300	TLCA-1000-EC12M	1000

OPTIONAL ACCESSORIES

- Self aligning bearings with 17 mm bore (one per load cell, M284953)
- Pillow block bracket for size A Load Cells (one per load cell, M404448)



EUROPE, MIDDLE EAST AND AFRICA Tel +49.6195.7002.0 sales@maxcess.eu www.maxcess.eu

NORTH, CENTRAL AND SOUTH AMERICA Tel +1.405.755.1600 sales@maxcessintl.com www.maxcessintl.com

CHINA

Tel +86.756.881.9398 info@maxcessintl.com.cn www.maxcessintl.com.cn



Tel +81.43.421.1622

japan@maxcessintl.com

www.maxcess.jp

INDIA

Tel +91.22.27602633 india@maxcessintl.com www.maxcess.in











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