

MT-CLTM-CVC-12VDC-9.TM-SM-M1

Current Loop Interface Module - Current to Voltage Conversion, +12 VDC Supply Voltage, 9-Position Terminal Block - Surface Mount

Product ID: 335104

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: MT-CLTM-CVC-12VDC-9.TM-SM-M1

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

MT-CLTM-CVC-12VDC-9.TM-SM-M1 Current Loop Interface Module

Unit Type: Current Loop Interface Module

Dimensions: 6.5"-W x 1.125"-D x 2.625"-H

Weight: 1 lb

Signal Conversion: Current to Voltage

Input Types: Unipolar & Bipolar current loops

Configuration: Field configurable (resistors & jumpers)

Compatibility: Modern & legacy tap position systems

Accuracy: High-precision tap position indication

Ratings

5-Year Warranty

Input:

Input Type: Current Loop

Input Ranges: 0–1 mA, 0–2 mA, 4–20 mA, ± 1 mA

Supply Voltage: +12 VDC (from controller)

Output:

Output Type: Analog Voltage

Function: Proportional to tap position

Conversion Method: Internal shunt resistor

Configuration:

Configuration Method: External resistor & jumper selection

4–20 mA Resistor: 150 Ω

0–2 mA / ± 1 mA Resistor: 1.5 k Ω

0–1 mA Resistor: 3.01 k Ω

Functional Characteristics:

Signal Conversion: Current to Voltage to Tap Position

Supported Sensors: M-2948, INCON 1250

Tap Position Range: Up to ± 16 taps (33 positions typical)

Calibration: Mechanical & electrical

Interfaces & Connections:

Terminal Block: 9-position

Control Connector: 6-pin

Cable Types: B-0753, B-0752

Insulation & Protection:

Dielectric Withstand: 1500 VAC to chassis

Surge Withstand: IEEE C37.90.1

Oscillatory Surge: ± 2.5 kV

Fast Transient Burst: ± 4 kV

Fast Transient: ± 5 kV

Operating Ambient Temperature: -40 $^{\circ}\text{C}$ to $+85$ $^{\circ}\text{C}$

Humidity: Up to 95% (non-condensing)

PCB Protection: Conformal coating (IEC 60664-3, CAT IV)

Mount: Surface mount

Required Space: ≥ 6.5 in (W) $\times 2.625$ in (H)

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-765-7664

E-mail: sales@larsonelectronics.com

All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250

Made in the USA

The MT-CLTM-CVC-12VDC-9.TM-SM-M1 from Larson Electronics is a current loop interface module that includes dual functionality to convert current loop signals to voltage signals and accepts direct current inputs from tap position sensors. The MT-CLTM-CVC-12VDC-9.TM-SM-M1 has a 9-position terminal block for easy connections.

Applications: The MT-CLTM-CVC-12VDC-9.TM-SM-M1 is used in tap position feedback for tapchanger controls.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our



custom options tailored to meet your specific industry needs.



Frequently Asked Questions (FAQ)

There are no Faqs



Warranty: 12 Months.

Export Control Classification Number (ECCN): EAR99



Links (Click on the below items to view):

- **HigResPic1**(<https://www.larsonelectronics.com/images/product/HigResPic1/335104.JPG>)
- **Video1**(<https://www.youtube.com/watch?v=aOJY5E9e33I>)
- **ISO 9001 Certification**(<http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF>)
- **Business Certificate**(<https://www.larsonelectronics.com/images/pdfdocs/w9.PDF>)
- **Shipping Time Map**(<https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf>)