



Model 242

DC ISOLATOR SERIES

- DUAL CHANNEL – RACK MOUNT
- CALTRANS APPROVED

For over 30 years Eberle Design, Inc. (EDI), has provided technicians and engineers with reliable, high quality mission critical component products that improve the performance and lifecycle of traffic control systems.

EDI's wide range of traffic control vehicle detection products help technicians save valuable time and bank budgeted dollars by quickly installing, accurately troubleshooting, and reliably maintaining traffic control systems with easy to use hi-tech vehicle detectors.

The Model 242 and Model 242E DC Isolator has been specifically designed to deal with all traffic applications and meets or exceeds all requirements of:

- Caltrans QPL, TSCES January 1989
- Caltrans QPL, TEES March 2009

The Model 242E adds additional Fault Output indicators to alert a technician to problems with the Model 242E outputs, cabinet wiring or associated Controller Unit inputs. Three separate Input Pulse filter settings provide a mechanism to screen out transient input pulses that may be the result of noise conditions or signal bounce.

STANDARD FEATURES

Rugged Handle Assembly:



The Model 242 series handle assembly is made of GE Lexan™, which is a super durable polycarbonate resin. The design of this assembly strengthens and protects the whole PCB assembly much better than conventional metal face plates.

Reliable Off-Line Power Supply:

The Model 242 series uses a reliable and efficient isolated off-line switching power supply to provide the DC voltages of the unit.

Enhanced I/O Transient Protection:

Both the DC inputs and outputs are protected from damage due to transient voltages. AC Main protection is provided by an MOV and a fuse option is available.

100 ms Minimum Output Pulse Option:

The Model 242 series can be programmed to provide output pulse widths of 100ms minimum.

Polarity Option:

The input polarity for each channel can be inverted.

Model 242 Product Options:

Model 242-J: provides two-pin post jumpers for the minimum pulse width option and the polarity option.

Model 242-NY: operates from a 24VDC power supply. Meets requirements of New York State DOT for 179 cabinets.

MODEL 242E ENHANCED FEATURES

True Electrical Output Monitoring:

The Model 242E adds a FAULT indicator for each channel that reports when the true output isolated electrical state is not consistent with the intended output state of the isolator. This may result from a cabinet wiring problem, damaged isolator output or defective CU input.

Separate Output & Fault LEDs:

For each channel, separate Red and Yellow LED indicators are provided for the Output and Fault status respectively.

Programmable Input Pulse Filtering:

Pulse filters may be programmed for each channel to reject input pulses that do not meet minimum values for leading edge and trailing edge pulse widths

Polarity Option:

The input polarity for each channel can be inverted.

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LEXAN Resin is a trademark of General Electric

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