IOTA REV 021120

IOTA Emergency Lighting Control Device with Dimming Relay

MODEL NO: ____________________
TYPE: ________________________
PROJECT: _____________________
COMMENTS: __________________

DESCRIPTION

The IOTA ETS DR Emergency Lighting Control Device allows local switch and dimming control of designated emergency luminaires when emergency power is provided by a generator or inverter. The ETS DR senses the loss of normal AC power and bypasses the local switch device or dimmed setting, allowing emergency power directly to the fixture regardless of control setting. The ETS DR is rated for any lamp load up to 3 amps continuous power including LED loads per NEMA 410 standards. The ETS DR is an ideal solution for achieving increased energy savings in accordance with most energy efficiency standards by eliminating the need to operate the designated emergency fixtures 24/7 when emergency power is sourced from a generator or inverter. The dimming relay leads of the ETS DR interface with the fixture's dimming control for proper emergency operation of the fixture from the designated auxiliary supply.

SPECIFICATIONS

- Input Voltage: 120-277V, 60Hz
- Input Current: 40 mA
- Maximum Switching Current: 3 Amps @ 120V, 3 Amps @ 277V
- Dimming Compatibility: For use in 0-10 volt dimming circuits up to 100 mA
- Emergency Operation: The ETS DR allows operation of any lamp type in the designated fixture for the duration of the auxiliary supply
- Initial Illumination: The ETS DR allows operation of the designated load at full light output
- Operating Temp: 0° to 55° C
- Weight: 1.0 lbs.
- Certifications: UL 924 Listed ALCR Control Device for U.S. and Canada

FEATURES

- Shunts local switch devices in the emergency mode allowing for full lumen output
- Can also be used with fixture level micro-inverter systems to defeat 0-10V dimming functions
- Galvanized steel case
- 120-277V 60Hz
- Available in flex or non-flex configuration
- Rated for use in plenum fixtures
- Meets or exceeds all NEC, IBC, and Life Safety Code Emergency Lighting Requirements
- RoHS Compliant
- 5-Year Warranty

PRODUCT ADVANTAGES

- Increased Energy Savings: Promotes energy savings by eliminating the need for always-on fixtures
- Restore Local Lighting Control: Occupants can control illumination within their lighting space without compromising emergency performance
- Dimming Relay: Internal dimming relay allows the use of 0-10V dimming options with the need for additional ALCR devices
- Full Light Output: Allows operation of emergency fixtures at full brightness regardless of switched or dimmed settings
- Designed to NEMA 410: Compatible with LED loads up to 3amps continuous in accordance with NEMA 410 inrush recommendations

DIMENSIONS

8.0" x 1.18" x 1.15" (mounting center 7.5")

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**CONFIGURATION**

ETS  DR

- blank (integral, no-flex housing)
- A (single 24” flex housing for external mounting)

**WIRING**

**Separately Derived System (switched neutral)**

![Separately Derived System Wiring Diagram]

**Non-Separately Derived System**

![Non-Separately Derived System Wiring Diagram]