



# ETS DR

## Energy Saving Emergency Control

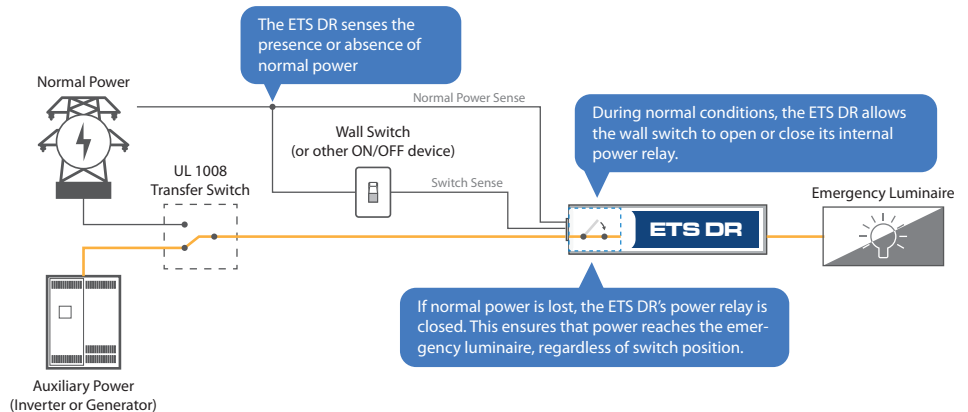


### What is an ETS DR Control Device?

The IOTA ETS DR is a powerful ALCR (Automatic Load Control Relay) device that works in conjunction with emergency power systems such as a generator or inverter to provide additional levels of lighting control without impacting emergency performance. Code dictates that designated fixtures connected to an auxiliary generator or inverter must be on an unswitched circuit to prevent interruption of the emergency lighting when needed. However, the code accommodates the use of control devices like the ETS DR for these applications.

### How the ETS DR Works...

The ETS DR is a small, compact device that embeds within an individual fixture on the designated emergency circuit and monitors the power and control status of the fixture. As long as normal power is present, the fixture can be switched on and off as needed. If the sensing leads recognize that the fixture is off due to a loss of normal power, the ETS DR shunts the emergency power to the fixture. Thus, the emergency generator or inverter can supply the needed emergency power to the designated fixture even if the local control is in the OFF position.



### The Advantages of Using an ETS DR Control Device



#### Regained Control of Lighting for Occupants

By regaining local control, occupants can turn lights on and off as desired - such as when darkening rooms for presentations or performances - without compromising safety.

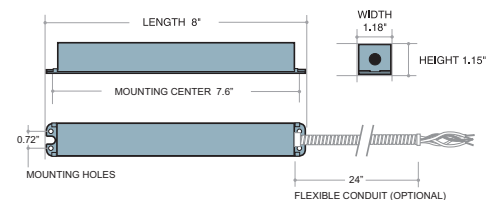


#### Increased Energy Savings

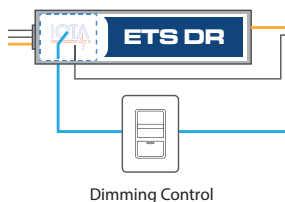
Eliminating unswitched circuits and 24/7 nightlights means no wasted energy during the hours when buildings are unoccupied.

#### Included Dimming Relay for Added Control

The included dimming relay allows for the additional bypass of a 0-10V dimming signal, meaning the designated fixtures will illuminate in the emergency mode at full brightness. This avoids risk of not delivering sufficient foot-candles during an egress situation. ALCR solutions without a dimming relay would require two individual devices for this application. The IOTA ETS DR services this issue with only one device!



The IOTA ETS DR features a minimal enclosure for installing within the fixture. For external mounting, options are available with flexible metal conduit. See reverse side for more details.





When to Consider an ETS DR

An ETS DR is primarily used for **generators** or **large inverter systems** that power multiple designated circuits and that do not have individual input leads that connect ahead of local lighting control. Inverter designs will vary so consult individual product specifications.

For IOTA inverters, you can generally apply the following rules:



**Micro Inverters (less than 100W)**  
Dual Input leads present to bypass switch - ALCR not required



**Mini Inverters (125W to 750W)**  
Dual Input leads present to bypass switch - ALCR not required



**Central Inverters (>1000W)**  
ACLR needed to bypass controls

**Note:** even if it is not needed to bypass the local switch, an ETS DR may be desirable to override 0-10V dimming signals by using the unit’s internal dimming relay.

Additional ALCR Products



The ETS DR allows a single fixture to bypass its local control settings in the emergency mode. If a single control operates multiple fixtures on one circuit, then consider using an **ETS 20** to achieve the same level of functionality for an entire circuit!

Available Models

Model	Description	Input Voltage	Temperature Rating	Listings
ETS DR	Fixture-Level ACLR Device with Dimming Relay	120-277VAC	-20° to 65° C	cULus 924
ETS DR A	Fixture-Level ALCR Device with Dimming Relay and Single Flexible Conduit	120-277VAC	-20° to 65° C	cULus 924
ETS DR “NOKIT”	Fixture-Level ACLR Device with Dimming Relay, no indicator light*	120-277VAC	-20° to 65° C	cULus 924

\*Because the ETS DR is neither the emergency fixture or the emergency supply, the indicator light is not a Life Safety Code requirement. Installation of the indicator is optional.



The IOTA ETS DR is UL Listed for both field and factory installation in the United States and Canada.

For more information on the ETS DR or other ALCR solutions, visit [www.iotaengineering.com](http://www.iotaengineering.com)

