

TECHNICAL BRIEF

IIS Inverters with Dimming Relay Option

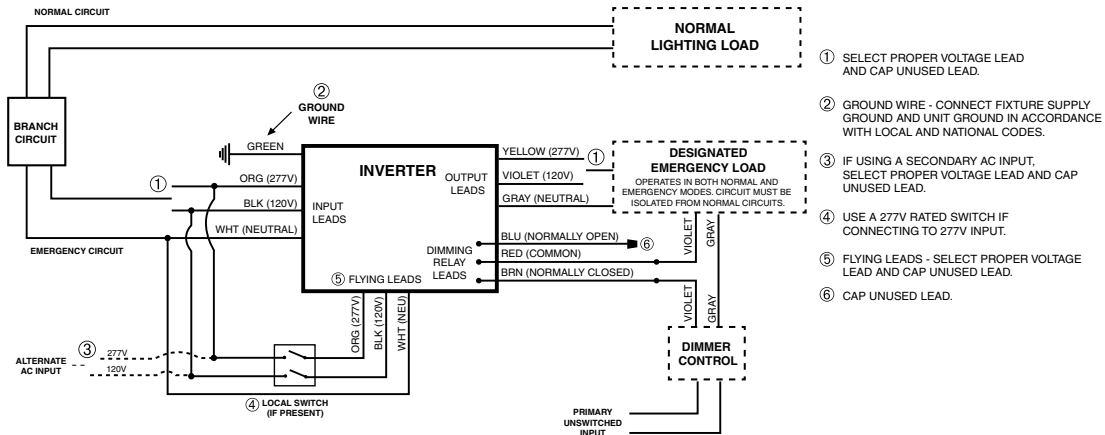
The “DR” Dimming Relay Option for IOTA IIS Series Inverters provides additional capability when used with dimming controls. The DR option can be used as either a Dimmer Bypass or to accommodate an EM Dimming Signal. Refer to the descriptions and diagrams below for application details. The Dimming Relay is available as an additional option on select IIS Inverter Models (IIS-125, IIS-375-LED, and IIS-550-I). Add the “-DR” suffix to specify the Dimming Relay feature.



- IIS-125-CG
 - IIS-125-SM
 - IIS-375-LED
 - IIS-550-I
- DR
- Add '-DR' to Model Number when requiring the Dimming Relay feature.

Application 1 - Dimmer Bypass

The Dimming Relay contacts provide electrical continuity during normal power conditions allowing your dimming signal to operate the luminaire in the desired, dimmed state. When the inverter transfers into the emergency mode, the dimming relay contacts electrically open the 0-10 dimming reference signal forcing the luminaire to operate at full lumen output regardless of dimmer setting.



Application 2 - EM Dimming Signal

The Dimming Relay contacts are electrically open during normal power conditions allowing your dimming signal to operate the luminaire in the desired, dimmed state. When the inverter transfers into the emergency mode, the dimming relay contacts electrically short the 0-10 dimming reference signal forcing the luminaire to operate at a reduced lumen output setting based on the dimmable driver being used. Verify operating results of the luminaire with the 0-10 volt reference signal shorted to assure the application and mounting height produce code-compliant egress lighting.

