

LED Drivers - Precautions for Product Installation and Operation



Preamble:

Thank you for choosing Hytronik. We are committed to providing high-quality LED driver products and offering clear guidance for safe and reliable installation and operation.

To ensure optimal performance, maintain product reliability, and provide a smooth user experience, the following installation and operation precautions apply to all Hytronik LED drivers.

1. Driver Compatibility

- Hytronik LED drivers are designed for Class II luminaires.
- Using them in Class I luminaires may cause residual LED glow during standby.
- If Class I installation is necessary, please inform Hytronik in advance to allow minor adjustments to eliminate residual glow.

2. Maximum Drivers per Circuit Breaker

- The maximum number of drivers per circuit breaker may vary depending on breaker type and installation environment.
- The datasheet calculation is based on ABB S200 series breakers.

3. Input Voltage

- Ensure the mains voltage matches the driver's rated input voltage.
- Over-voltage or under-voltage may reduce driver lifetime or cause malfunction.

4. Load Compatibility

- The connected LED load must be within the driver's rated output current and power range.
- Overloading may damage both the driver and the LED load.

5. Wiring & Polarity

- Follow proper wiring instructions; observe correct polarity for DC output.
- Improper wiring may cause driver failure or reduce performance.

6. Environment & Ventilation

- Install the driver in a dry, ventilated environment.
- Avoid installing near heat sources or in enclosed spaces without airflow.
- Excessive heat can reduce driver life and affect LED performance.



7. Dimming & Control Signals

- Use compatible dimmers or control systems as specified.
- Incorrect dimming signals may cause flicker, reduced lifetime, or malfunction.

8. Maintenance & Cleaning

- Disconnect power before any maintenance or cleaning.
- Avoid liquid contact with the driver.

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