



Smart Driver

LED Driver with Advanced Wireless Controls

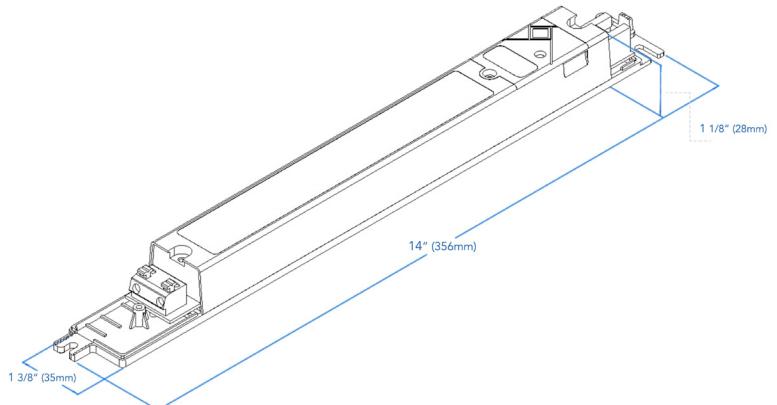
PRODUCT OVERVIEW

The Amatis Controls Smart Driver is designed to operate and control a wide variety of LED fixtures and LED lamp retrofit kits. Our proprietary 6LoWireless communication technology enables advanced controls and dimming of the LEDs with available sensors and wireless switches.

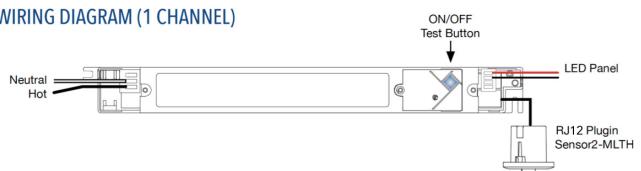
Every Smart Driver includes an RJ12 port designed to connect with the Amatis Controls Sensor2 MLTH. When connected, the sensor can detect occupancy, vacancy, available daylight, temperature, and humidity levels within the sensing area. Then the sensor leverages the Smart Driver's on-board 6LoWireless communication to transmit that data across the network.

FEATURES

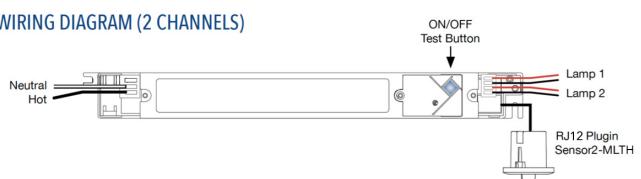
- Plug and play installation
- Embedded 6LoWireless Communication
- Automatic commissioning with 6LoMesh
- Unique address enables direct communication
- 1CH for LED fixtures, 2CH for LED Tube Retrofits
- Short circuit and overload protection
- Natural convection cooling
- LED status indicator
- RJ12 input for MLTH2 Sensor detecting motion, light, temperature and humidity
- Output and Sensor Connection: Class 2



WIRING DIAGRAM (1 CHANNEL)



WIRING DIAGRAM (2 CHANNELS)



DRIVER LED BEHAVIOR

| Behavior | Meaning |
|------------|----------------------------|
| OFF | No power (unless disabled) |
| Slow Blink | Looking for network |
| Fast Blink | In pairing mode |
| Solid | Connected to AMBR (normal) |



TECHNICAL SPECIFICATIONS

| Product | Input | Power Output | Current Output per Channel | Inrush | Constant Current | Efficiency | THD | Current Accuracy | Line Regulation | Wire Size for High Voltage Input | Wire Size for LED Output | Temperature Range |
|----------------------------------|------------|--------------|----------------------------|----------------|------------------|------------|------|------------------|-----------------|----------------------------------|--------------------------|---|
| DRIVER-36W-277V-1CH 1 Channel | 90-277 VAC | | 620mA | <20A at 120VAC | | | | | | | | |
| DRIVER-36W-277V-2CH 2 Channel | 50-60Hz | | 310mA | <40A at 277VAC | | | | | | | | |
| DRIVER-36W-347V-1CH 1 Channel | 347 VAC | 36W | 620mA | | 33-37V | Up to 81% | <20% | ± 5% | ± 1% | AWG 12-20 | AWG 20-26 | Ambient Temp: -4°F to 104°F -20°C to 40°C |
| DRIVER-36W-347V-2CH 2 Channel | 50-60Hz | | 310mA | <55A at 347VAC | | | | | | | | |

Complete Your System With:
Amatis Border Router (AMBR)
Sensor2 MLTH
Switch

The 6LoWireless mesh network is a robust communication system used by all Amatis Controls devices to communicate commands and data across the building. Each device is in constant communication with other devices in the network, thereby eliminating range limitations, creating a system that is fault-tolerant should one of the devices lose communication and allowing for a system that acts cohesively across zones.

The Amatis Border Router (AMBR) communicates with other devices in the network via 6LoWireless communication and then sends the data to the internet using ethernet or optional cellular connections. This aggregated data is available through the Amatis Energy Dashboard. Lastly, AMBR leverages this internet connection to the Amatis Commissioning App.

The Amatis communication system is built on IPv6 protocol standards: the language of the Internet. Utilizing standardized protocols allows Amatis to protect all of the data with the same 128-bit encryption used by banks, e-commerce and other secured websites. As security protocols for the entire Internet are updated, so are ours. This means all of your data is not just secure today, but always.

