

| Specification Data | |
|--------------------|--|
| Job Name | |
| Type | |
| Catalog # | |
| Comments | |

PRODUCT OVERVIEW

The **TL7-HVG** is an intelligent wireless lighting controller designed for high voltage applications. Each TL7-HVG provides intelligent On/Off switching, dimming, external sensor input, highly accurate power metering, GPS, Tilt (optional) and status monitoring of lighting fixtures.

KEY FEATURES:

- Integrated Photocell
- NEMA/ANSI C136.41 7-pin Dimming Receptacle Support
- Power Monitoring
- Remote control and scheduling
- Secure, over-the-air upgrades to support future enhancements
- Seamless integration into the SimplySnap lighting control system
- 24VDC Power for Motion Sensors
- Built in surge protection- ANSI C136.2, 6kV
- NEMA Contact Test / Validation
- GPS
- Tilt (optional)
- Power-on dimming test eases installation



To learn more, call or visit:
synapsewireless.com
 (877) 982-7888



Includes Photocell, Power Monitoring, GPS, and External Sensor Input

| Product # | Description |
|-----------|---|
| TL7-HVG | High Voltage Twist-lock with Built in Photocell, Power Monitoring and GPS |

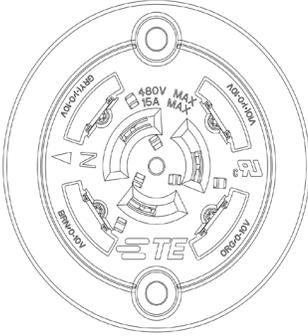
| | |
|-------------------------------------|---|
| Dimensions | 3.3" D x 3.9" H (84 mm D x 98 mm H) |
| Input Power¹ | 110-480VAC +/- 10%, 60Hz |
| Load Rating | 5A @ 110-277VAC (+/- 10%) 3A @ 347VAC (+/- 10%) 2A @ 480VAC (+/- 10%) |
| Surge Rating | 6kV |
| Operating Environment | -40°C to +70°C; 0% to 90% RH non-condensing |
| IP Rating | IP66 |
| Photocell | Dusk (10fc) Dawn (40fc) |
| Dimming Output | 0-10V, 20mA |
| Radio | SNAP 2.4GHz; 802.15.4 +20dBm Transmit power -103dBm Receive Sensitivity |
| Sensor Input | 0-10V Analog/Photocell 0-24V Motion Sensor |
| Sensor Power Supply | 24VDC @ 50mA peak, 20mA continuous |
| Power Monitoring² | 2% accuracy |
| Power Readings | Voltage, Watts |
| Certifications | FCC, IC, cULus, DLC, RoHS |
| Warranty³ | 5 Years |

Footnotes:

1. Phase to Phase power is supported, however the controller only switches one phase.
2. 2% accuracy down to 100 Watts
3. See www.synapsewireless.com/warranty for warranty terms

TL7-HVG WIRING DIAGRAMS

C136.41 SOCKET
TOP VIEW

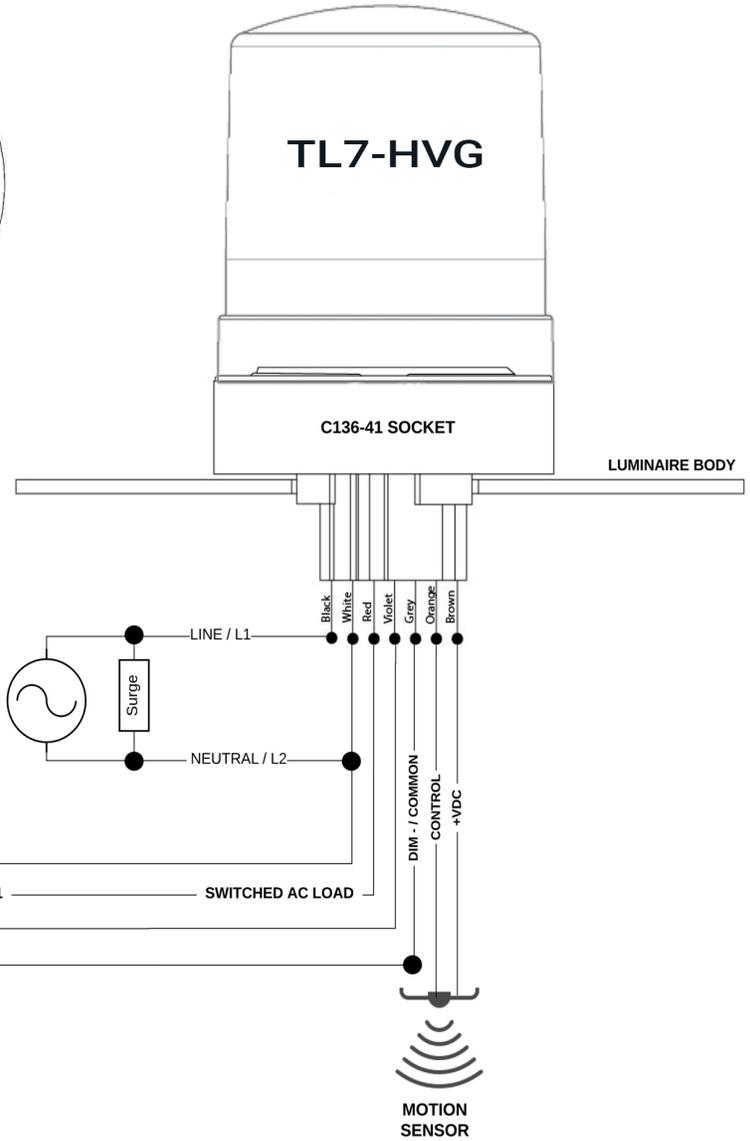
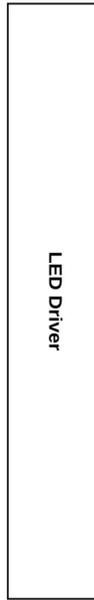


C136.41 SOCKET
BOTTOM VIEW

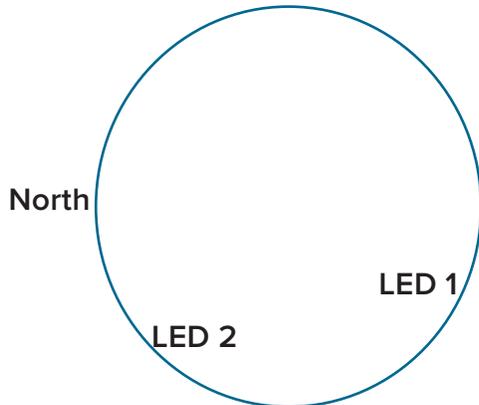


| Function | Wire |
|----------------|--------|
| L / L1 | BLACK |
| N / L2 | WHITE |
| LOAD / L1 | RED |
| DIM + | VIOLET |
| DIM - / COMMON | GREY |
| CONTROL | ORANGE |
| +VDC | BROWN |

Note: Phase to Phase power is supported, however the controller only switches one phase.



STATUS LEDs



Top View of TL7-HVG

| LED | Color | Status |
|-------|-------|---------------------------------|
| LED 1 | Blue | Network Found, No Configuration |
| LED 1 | Green | Normal Operation |
| LED 1 | Red | Communication Error |
| LED 2 | Green | Relay Closed |
| LED 2 | Off | Relay Open |