## SYNOPSE

Specification Data		
Job Name		
Туре		
Catalog #		
Comments		

#### **PRODUCT OVERVIEW**

The **TL7-HVG** and **TL7-HV** are intelligent wireless lighting controllers designed for high voltage applications. The TL7-HV(G) allows DLC LLLC compliance by offering persistence with networked occupancy sensor, ambient light sensor, and high-end trim. Each TL7-HVG and TL7-HV provides intelligent On/Off switching, dimming, external sensor input, highly accurate power metering, Tilt (optional) and status monitoring of lighting fixtures.



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

Product #	Description
TI 7-HV	High Voltage Twist-lock with Photocell,
IL/-NV	Power Monitoring
TI 7-HVG	High Voltage Twist-lock with Photocell,
IL/-HVG	Power Monitoring, and GPS

#### **KEY FEATURES:**

- Integrated photocell enables dusk-to-dawn operation
- Compatible with ANSI C136.41 7-pin Receptacle
- Self-Healing Mesh Network
- Secure, Over-the-Air Upgrades
- Secure AES128 Encryption
- One Sensor Input
- GPS (TL7-HVG only)
- Tilt (Optional –TL7-HVG only)
- Status LED's are Software-Dimmable
- Power Monitoring
- 24VDC Power for Motion Sensors
- Built in surge protection- ANSI C136.2, 6kV
- Power-on dimming test eases installation
- DLC Certification for Indoor and Outdoor
- Dusk to Dawn persistence via photocell and motion sensing when the Gateway is offline



#### **SPECIFICATIONS:**

Dimensions	3.3" D x 3.9" H
	(84 mm D x 98 mm H)
Input Power <sup>1</sup>	110-480VAC +/- 10%, 60Hz
	5A @ 110-277VAC (+/- 10%)
Load Rating	3A @ 347VAC (+/- 10%)
	2A @ 480VAC (+/- 10%)
Surge Rating	6kV
Operating	-40°C to +70°C; 0% to 90% RH
Environment	non-condensing
IP Rating	IP66
Photocell	Dusk (10fc) Dawn (40fc)
Dimming Output	0-10V, 20mA
	SNAP 2.4GHz; 802.15.4
Radio	+20 dBm Transmit Power
	-103 dBm Receive Sensitivity
	0-10V Analog/Photocell
Sensor Input	0-24V Motion Sensor
Sensor Power	24VDC @ 50 mA peak,
Supply	20mA continuous
Power Monitoring	2% accuracy, down to 100W
Power Readings	Voltage, Watts
Certifications	FCC, IC, cULus, DLC, RoHS
Warranty <sup>2</sup>	5 Years

#### Footnotes:

- 1. Phase to Phase power is supported, however the controller only switches one phase.
- 2. See www.synapsewireless.com/warranty for warranty terms

### TL7-HV(G) WIRING DIAGRAMS

C136.41 SOCKET TOP VIEW



C136.41 SOCKET BOTTOM VIEW

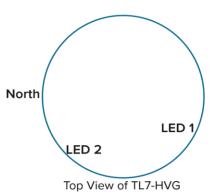


Wire
BLACK
WHITE
RED
VIOLET
PINK
ORANGE
BROWN

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

# TL7-HV(G) ANSI C136.41 Socket LOAD 0-10V LED DRIVER COMMON / DIM DIM MOTION / PRESENCE SENSOR

#### **STATUS LEDS**



	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