



PRODUCT CHANGE NOTIFICATION

TL7-B2

Issue Date: March 30, 2023

Effective Date: May 1, 2023 (or as stock is depleted)

DEVICES

Part Number	Revision Code
TL7-B2	All versions

DESCRIPTION OF CHANGES

The device listed above will be going End of Life. Limited order quantities will be determined by available stock until depletion.

REASON FOR CHANGES

This device is being replaced by the TL7-HVG (universal voltage 110-480V AC twist lock controller) with the same form factor.

RECOMMENDED ALTERNATIVE PRODUCT

Synapse recommends utilizing the TL7-HVG in place of these devices. Refer to the cutsheet linked below for additional information on this product.

https://cdn2.assets-servd.host/abrupt-sheathbill/production/uploads/Cutsheet_TL7-HVG.pdf

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, 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



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



Includes Photocell, Power Monitoring, and External Sensor Input

Product #	Description
TL7-HVG	High Voltage Twist-lock with Built in Photocell

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 @ 20mA
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**

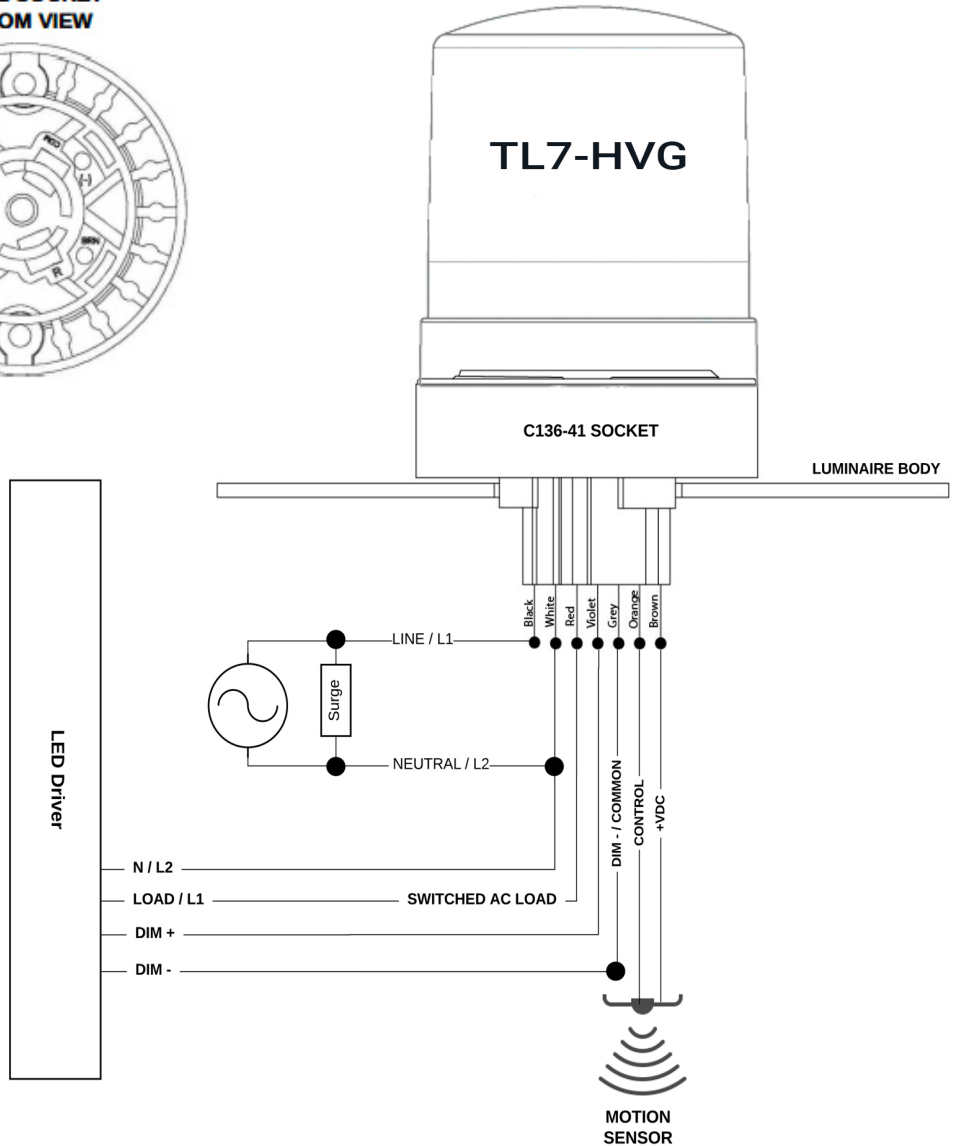


**C136.41 SOCKET
BOTTOM VIEW**



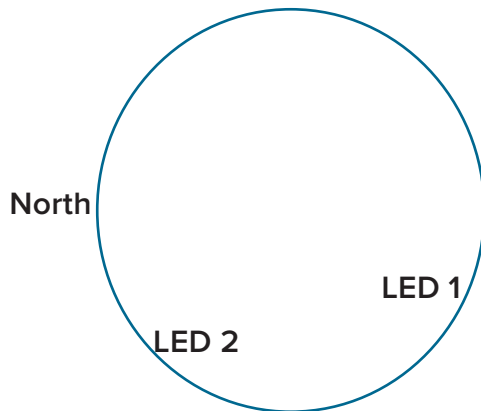
Function	Wire
L / L1	BLACK
N / L2	WHITE
LOAD / L1	RED
DIM +	VIOLET
DIM - / COMMON	GREY
CONTROL	ORANGE
+VDC	BROWN

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



LIGHTING CONTROLLER

STATUS LED LIGHTS



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

Patented – Virtual marking at <https://www.synapsewireless.com/about/patents>