

Specification Data	
Job Name	
Type	
Catalog #	
Comments	

## Product Overview

The **TL7-B2** is an intelligent wireless lighting controller with exceptional fault tolerance and a multitude of features. Each TL7-B2 provides intelligent On/Off switching, dimming, highly accurate power metering, digital sensor input, and status monitoring of lighting fixtures.

### Key Features:

- Integrated Photocell
- NEMA/ANSI C136.41 7-pin Dimming Receptacle Support
- Utility grade power monitoring
- Remote control and scheduling
- Flexible Dimming Controls
- Secure, over-the-air upgrades to support future enhancements
- Seamless integration into the SimplySNAP lighting control system
- Digital sensor input for motion sensing
- 24V DC Power for Motion Sensors



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



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

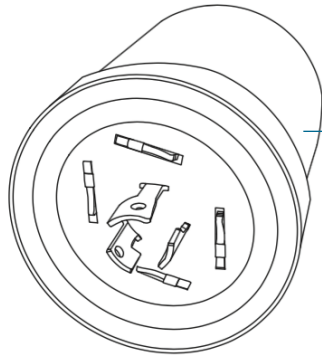
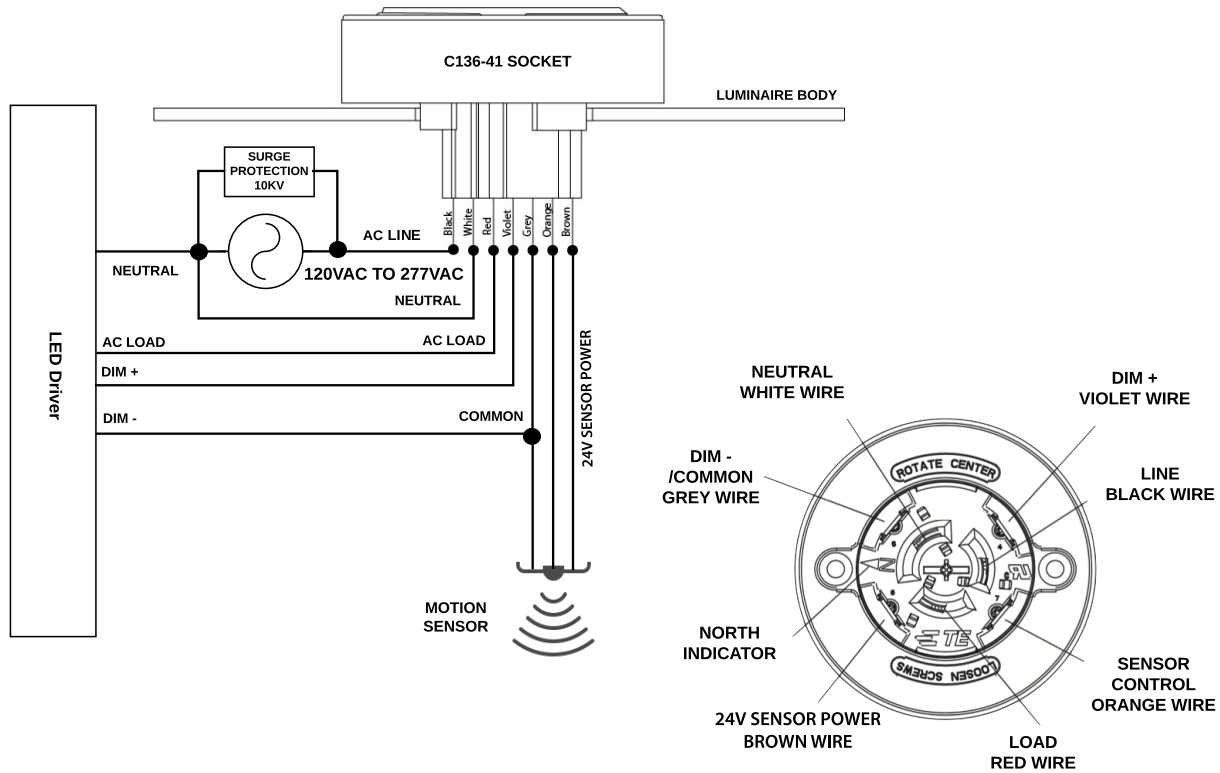
Product #	Description
TL7-B2	Low Voltage Twist-lock Wireless Lighting Control with Built in Photocell

<b>Dimensions</b>	3.5" W x 3.86" H (88.6 mm W x 98 mm H)
<b>Input Power*</b>	110-277VAC +/- 10% (Max 305V), 60Hz
<b>Operating Environment</b>	-40°C to +70°C; 0% to 90% RH non-condensing; IP66
<b>Switched Output</b>	Default ON
<b>Load Rating</b>	5A @ 110-277VAC (+/- 10%)
<b>Surge Rating</b>	6kV
<b>Dimming Control</b>	1-10V
<b>Dimming Output</b>	1-10V, 20mA
<b>Radio</b>	SNAP 2.4GHz; 802.15.4 +20dBm Transmit power -104dBm Receive Sensitivity
<b>Sensor Input</b>	0-24V Digital Input
<b>Sensor Power</b>	24V, 20mA
<b>Power Monitoring</b>	Utility Grade - 2% Accuracy
<b>Power Readings</b>	Voltage, Watts
<b>Certifications</b>	FCC, IC, cULus, DLC
<b>Warranty**</b>	5 Years

\*Single phase power supported  
 Note: 208V dual phase power is also supported, however the controller only switches one leg of this circuit. Please verify with an installer that this will not impact the design at the system level.

\*\*See [www.synapsewireless.com/warranty](http://www.synapsewireless.com/warranty) for warranty terms

# TL7-B2 Wiring Diagrams



LED Color	Status
Blue	Not yet added to SimplySNAP
Green	Normal Operation
Red	Communication Lost

