

SmartStuff SmartBox + Panel Sensor

Item Number: **SMBOXPLBT**

Product Specifications



The SmartBox + Panel Sensor is a Bluetooth® Signal Mesh based lighting control device. Once connected to a luminaire, the SmartBox + Panel Sensor provides Motion and Bi-Level Controls and can be paired with other TCP SmartStuff devices. The Panel Sensor incorporates both a microwave or a PIR sensor to detect motion and a daylight sensor to measure the ambient light in the area. The SmartBox + Panel Sensor is compatible with any luminaire with 0-10V dim to off drivers/ballast and can be configured through the TCP SmartStuff App on any Android™ or Apple® Smart devices.

Reasons to choose the SmartStuff SmartBox + Panel Sensor from TCP:

- TCP Bluetooth Signal Mesh allows for over 100 TCP SmartStuff devices on one network.
- Control luminaires with 0-10V dim to off drivers/ballast.
- Able to create scenes, schedules, and group TCP SmartStuff devices together.
- Control luminaires with Motion and Bi-Level Controls.
- Pair with TCP SmartStuff Accessories for greater control and flexibility.
- Easy to install, setup, and configuration is through the TCP SmartStuff App.
- All TCP SmartStuff products' firmware can be updated through the SmartStuff App to enhance their capabilities and fix potential issues.

Ideal Luminaire Applications:

- Flat Panels
- Troffers
- General Purpose Strips

See the TCP Luminaire Family Compatibility List to find which Luminaires are compatible with the SmartBox + Panel Sensor

Specifications:

Input Voltage 120 - 277VAC @ 15mA
Input Line Frequency 50/60Hz
Maximum Power 1W
Radio Protocol Bluetooth Signal Mesh

Output Voltage 0-10VDC
Operating Temperature -23°F(-30°C) to 113°F(45°C)
Humidity 80% RH
Suitable for both dry and damp locations



5 YEAR
WARRANTY

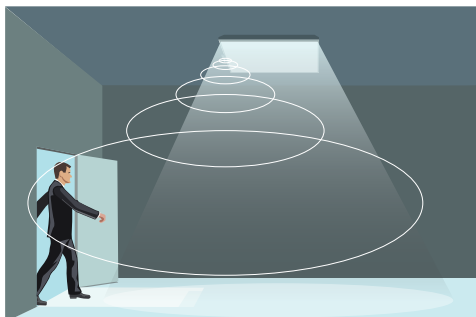
TCP®

325 Campus Dr. | Aurora, Ohio 44202 | P: 800-324-1496 | tcp.com

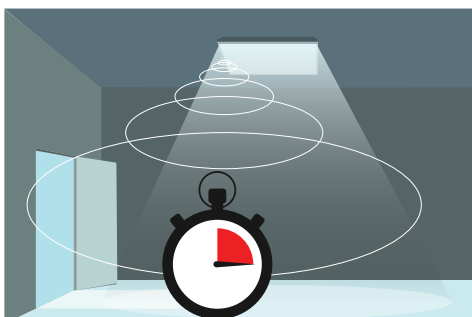
SmartBox + Panel Control Setting:

TCP MOTION CONTROL

When the TCP SmartBox + Panel Sensor is connected to a luminaire and set up for Motion Control through the App, the luminaire will turn on/off when the Panel Sensor detects motion in the area. Use the switch on the back to select between the Microwave or PIR Sensor to detect motion. The TCP SmartBox + Panel Sensor can be paired with other TCP SmartStuff products such as the SmartBox. This means when the Panel Sensor has been engaged, it can turn a group of luminaires on and off.



If the SmartBox + Panel Sensor detects motion, it will go into Hold Mode. The luminaire will turn on and the light level for the luminaire will be at 100%.



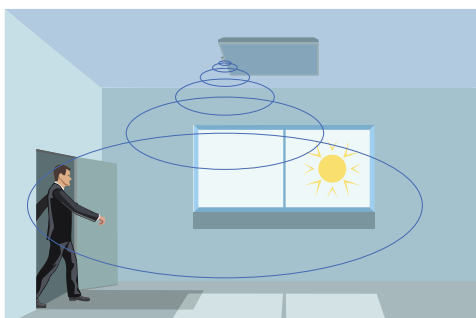
The luminaire will stay on as motion is detected. Once motion is no longer detected, the Hold Time will begin to count down.



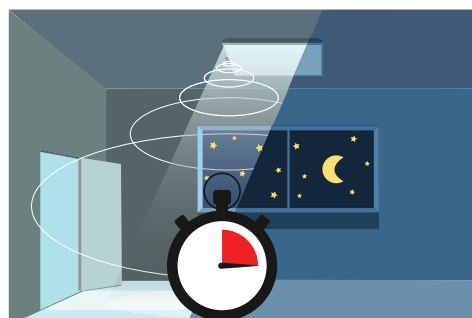
Once the Hold Time has elapsed, the SmartBox + Panel Sensor will go into Stand-By Mode and turn off the luminaire.

TCP BI-LEVEL CONTROL

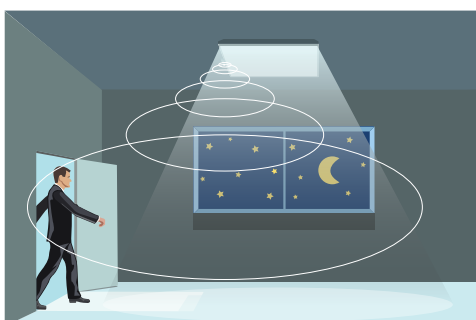
When TCP SmartBox + Panel Sensor is connected to a luminaire and set up for Bi-Level Control through the App, the luminaire will turn off when daylight is present and on/off when the Panel Sensor detects motion in the area. Use the switch on the back to select between the Microwave or PIR Sensor to detect motion. The TCP SmartBox + Panel Sensor can be paired with other TCP SmartStuff products such as the SmartBox. This means when the Panel Sensor has been engaged, it can turn a group of luminaires on and off.



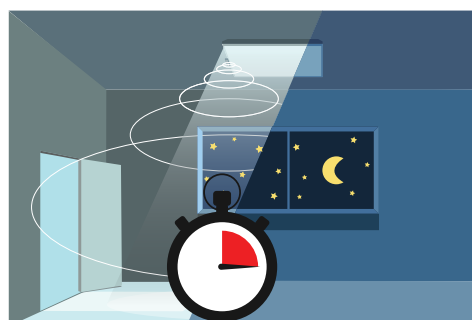
If the natural light lux level is above the Daylight Sensor Setpoint, the luminaire will not turn on, even if motion is detected.



Once the natural light lux level falls below the Daylight Sensor Setpoint, the luminaire will turn on and the Hold Time will begin to countdown. Once the Hold Time has elapsed and the SmartBox + Panel Sensor will go into Stand-By mode and turn off the luminaire.



If the SmartBox + Panel Sensor detects motion, and the natural light lux level is below the Daylight Sensor Setpoint, the luminaire will turn on. The light level for the luminaire will be at 100%.



The luminaire will stay on as motion is detected. Once no motion is detected, the Hold Time will begin to countdown. Once the Hold Time has elapsed and the SmartBox + Panel Sensor will go into Stand-By mode and turn off the luminaire.



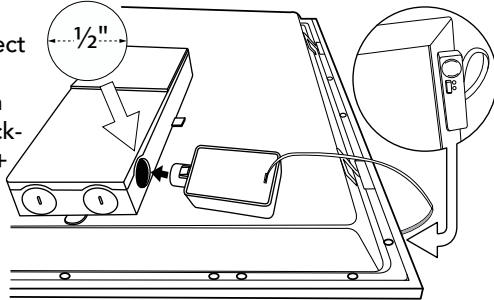
SmartStuff SmartBox + Panel Sensor

Item Number: **SMBOXPLBT**

Installation Notes

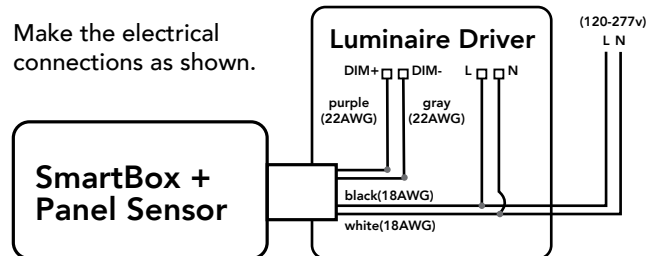
Installation of the SmartBox + Panel Sensor

Check the label on the SmartBox for correct orientation and install as shown. The junction box needs a 1/2" knock-out for the SmartBox + Panel Sensor to fit securely. Use double-sided tape if needed.



Electrical Connections

Make the electrical connections as shown.

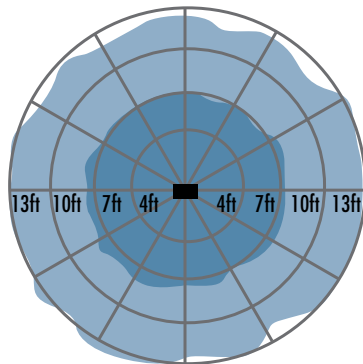


Manual Reset the SmartBox + Panel Sensor

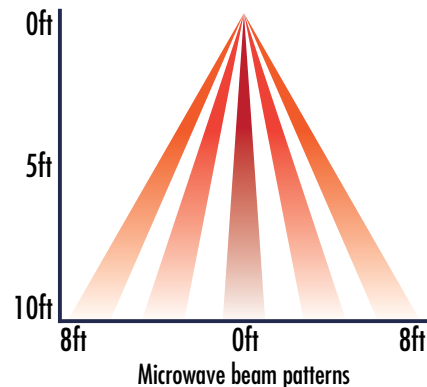
To manually reset the SmartBox + Panel Sensor that is connected to a luminaire, perform the following steps below:

1. Turn on luminaire and pause for less than 3 seconds.
2. Turn off luminaire and pause for less than 3 seconds.
3. Repeat steps 1 and 2 five times.
4. Turn on luminaire. After 6 seconds, the luminaire will flicker 5 times and stay on.

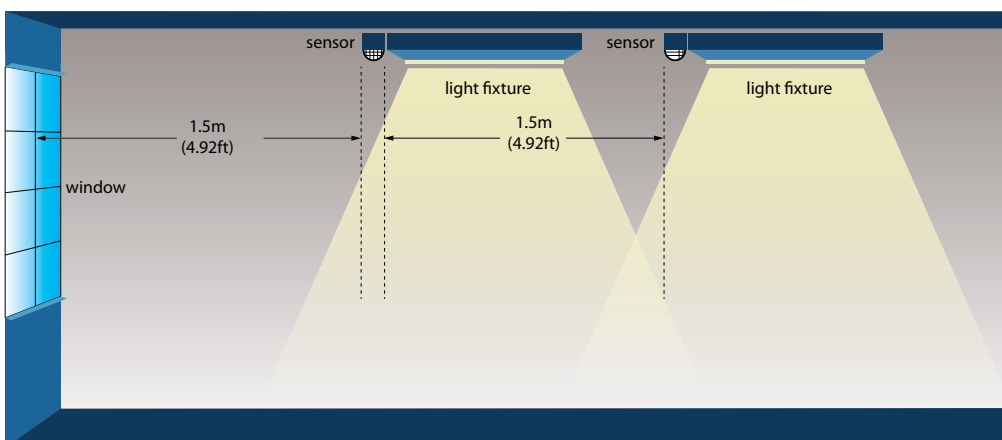
Microwave Beam Patterns:



PIR Beam Pattern:



Sensor Placement:



Maintain a minimum distance of 4.92 ft / 1.5m between:

- A window and the SmartBox + Panel Sensor.
 - The SmartBox + Panel Sensor and other TCP SmartStuff products with a Microwave Sensor.
- Make sure no light is reflected in the direction of the SmartBox + Panel Sensor.

The "Android" name, the Android logo, Google Play and the Google Play logo are trademarks of Google LLC. Apple, the Apple logo, and the App Store are trademarks of Apple Inc., registered in the U.S. and other countries. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by TCP is under license.



5 YEAR WARRANTY

TCP®

325 Campus Dr. | Aurora, Ohio 44202 | P: 800-324-1496 | tcp.com

©TCP MAR 2021/WF220950

TECHNOLOGY CAST IN A BEAUTIFUL LIGHT

For over 20 years, TCP has been designing, developing and delivering energy-efficient lighting into the market. Thanks to our cutting-edge technology and manufacturing expertise, we have shipped billions of high quality lighting products. With TCP, you can count on a lighting product that is designed to meet the needs of the market - that transforms your surroundings and envelopes you in warmth - lighting that generates beauty with every flip of the switch.

Sales:

Date:

Model:

Project:

Rep:

Catalog Number:

Type:

Notes:



For more information on the quality and care TCP can deliver, call us at **800.324.1496** or visit tcpi.com

325 Campus Dr. | Aurora, Ohio 44202 | P: 800.324.1496 | F: 877.487.0516