



# Smart Led Lighting Controls TSE40 Colour Touchscreen Installation Guide

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**Smart Led Lighting Controls TSE40 Colour Touchscreen**



## Product Information

### Specifications

- **Model:** TSE40
- **Mounting:** Wall mounted in landscape orientation
- **Minimum Mounting Depth:** 1.86" (47mm) from front wall surface
- **Power:** Powered over Ethernet (PoE), via iCANnet™, or auxiliary power supply
- **Communication:** Ethernet connection to TSI-1 / TSI-1-NA via PoE Switch or directly to iCANnet™ using iCANnet™ cable
- **Mounting Height:** Recommended mounting height is 57-64in (145-165cm) above the finished floor to the center of the unit

## Product Usage Instructions

### Planning the Installation

TSE40 is designed to be wall-mounted in landscape orientation.

It requires a minimum mounting depth of 1.86" (47mm) from the front wall surface, plus room for cables. TSE40 can be powered over an Ethernet connection (PoE), via iCANnet™, or an auxiliary power supply.

### Mounting the TSE40

1. Ensure that the recommended mounting height is 57-64in (145-165cm) above the finished floor to the center of the unit.

2. Friction fit the TSE40 screen into its mounting bracket by lining up the screen with the bracket and pressing firmly until fully engaged.

## **Installation**

1. Use the included dedicated mounting bracket for installation.
2. Fix the mounting bracket to a standard 47mm deep UK backbox using the included screws or any other flat M3.5 screws.
3. Verify that the components are level before mounting the screen.

## **Removing the TSE40**

To remove the TSE40 screen from the mounting bracket:

1. Locate the two small slots on the underside of the screen.
2. Using a flat-ended screwdriver, place the end in the slots and apply downward force to ease the screen from the friction fit point.

## **Connecting to the Lighting System**

The TSE40 can connect to the lighting system via Ethernet using a touchscreen interface (TSI-1 or TSI-1NA) and a PoE network switch.

1. Connect the TSE40 to the PoE network switch using a standard CAT5E or CAT6 Ethernet cable.
2. Ensure that both the touchscreen and touchscreen interface are on the same physical Ethernet Network and within the same IP address range. Refer to the 'TSE40/TSE100 Programming Guide' for information on setting IP addresses.

The TSE40 can also be connected directly to the Annette network using an iCANnet™ cable and an auxiliary power supply.

**Note:** When utilizing an auxiliary power supply, such as 12NC: 912600000668, ensure to fit the green power connector included with the touchscreen, paying particular attention to polarity.

## **FAQ**

### **Q: How should I mount the TSE40?**

- **A:** The TSE40 should be wall-mounted in landscape orientation.
- Use the included dedicated mounting bracket and ensure the recommended mounting height is 57-64in (145-165cm) above the finished floor to the center of the unit.

### **Q: How do I remove the TSE40 from the mounting bracket?**

- **A:** Locate the two small slots on the underside of the screen.

- Using a flat-ended screwdriver, place the end in the slots and apply downward force to ease the screen from the friction fit point.

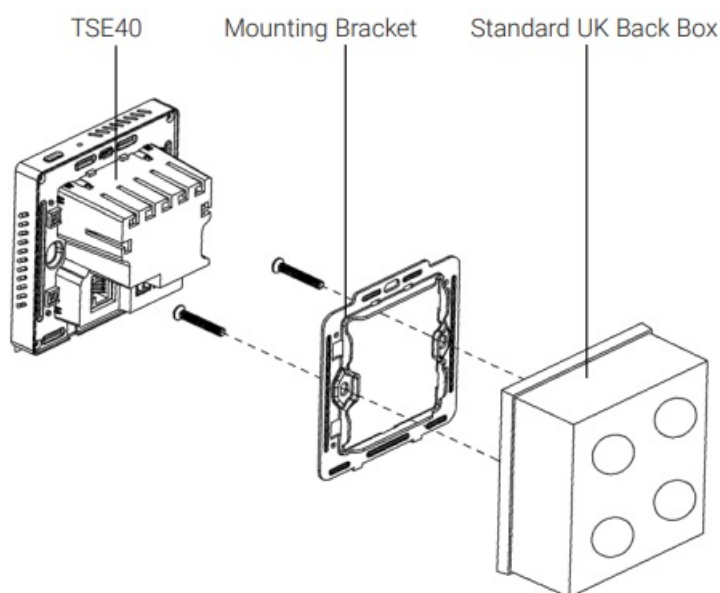
**Q: How can I connect the TSE40 to the lighting system?**

- **A:** You can connect the TSE40 to the lighting system via Ethernet using a touchscreen interface (TSI-1 or TSI-1NA) and a PoE network switch. Connect the TSE40 to the PoE network switch using a standard CAT5E or CAT6 Ethernet cable.
- Ensure that both the touchscreen and touchscreen interface are on the same physical Ethernet Network and within the same IP address range.

## Planning the Installation

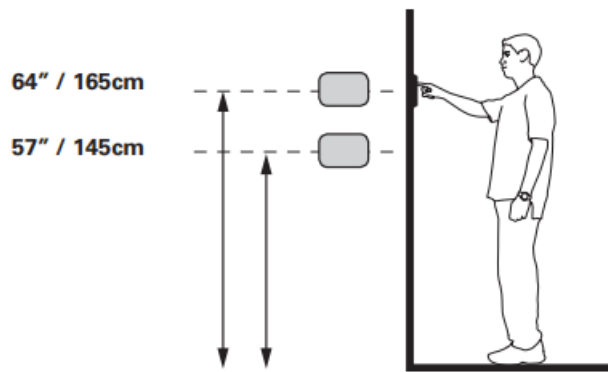
- TSE40 is designed to be wall-mounted in landscape orientation.
  - TSE40 requires a minimum mounting depth of 1.86" (47mm) from the front wall surface plus room for cable/s. TSE40 is designed to be powered over an Ethernet connection (PoE), via iCANnet™ or an auxiliary power supply.
  - There are two ways the TSE40 communicates with an iCANnet™ network.
1. A hard-wired Ethernet connection to a TSI-1 /TSI-1-NA via a PoE Switch.
    - Or
  2. Directly to iCANnet™ using iCANnet™ cable.

## Overview



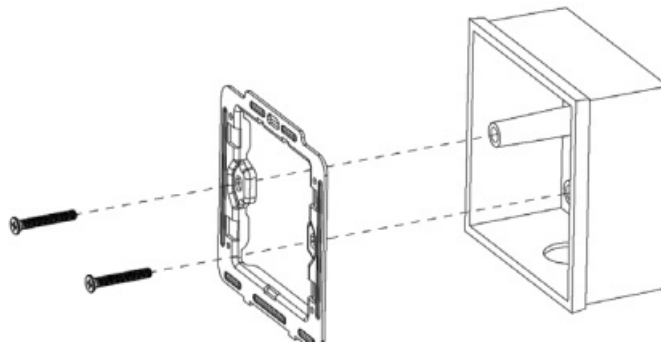
## Mounting height

The recommended mounting height for the TSE40 is 57 – 64in (145-165cm) above the finished floor to the center of the unit.



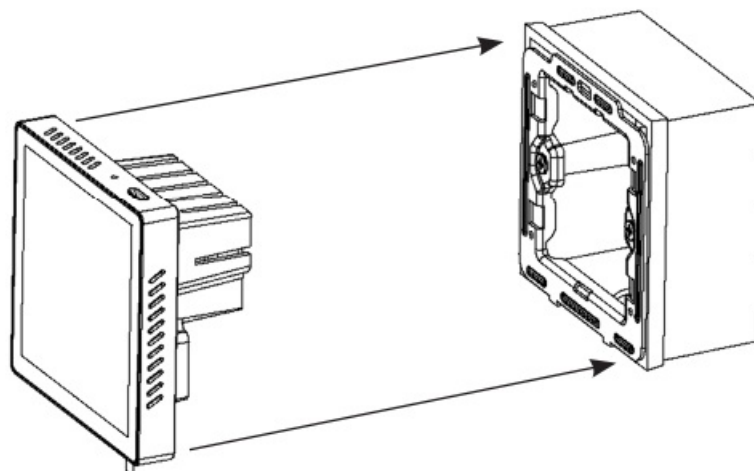
## Installation

- A dedicated mounting bracket is included with the TSE40. The bracket fits to a standard 47mm deep UK backbox.
- The mounting bracket must be used for the installation.
- Using the included screws (or any other flat M3.5 screws) fix the mounting bracket to the back box and verify that the components are level before mounting the screen.



## Mounting the TSE40

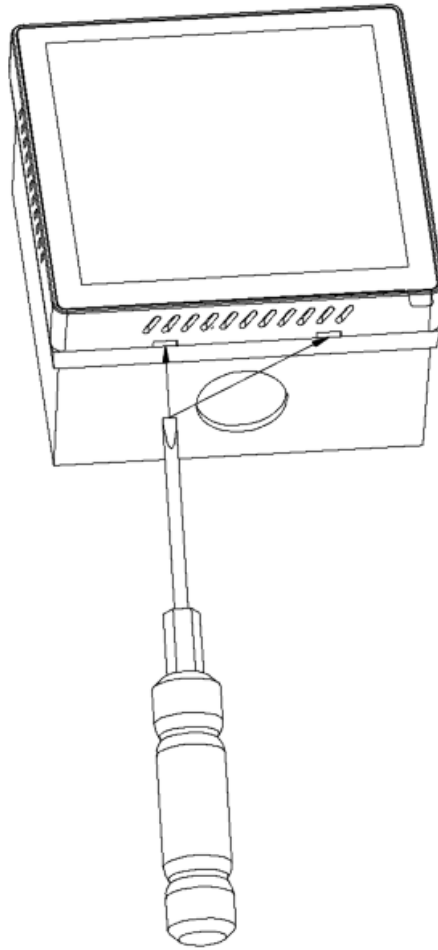
- The TSE40 screen is designed to friction fit into its mounting bracket. Line the screen up with the bracket and press firmly until the screen is fully engaged.



## Removing the TSE40

- There are two small slots located on the underside of the screen. Using a flat-ended screwdriver, place the end in the slots and apply downward force (lever principal).

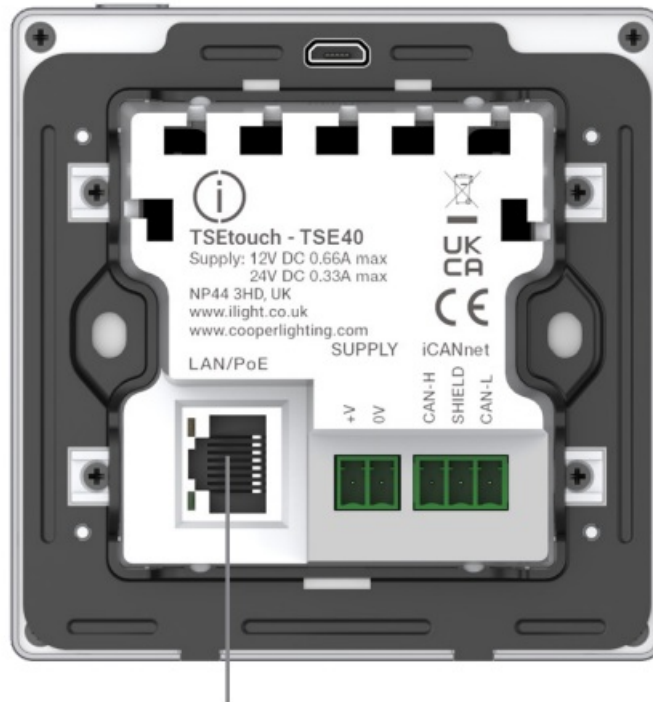
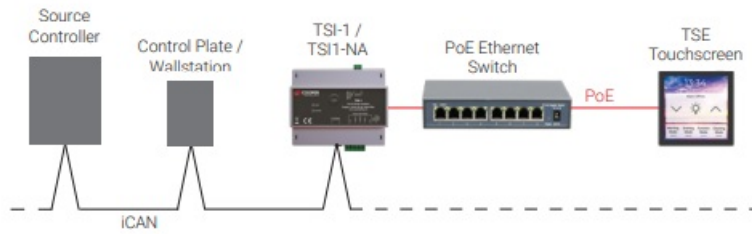
- This will ease the screen from the friction fit point and enable the screen to be removed from the mounting bracket.



## Connecting to the lighting system

### Via Ethernet

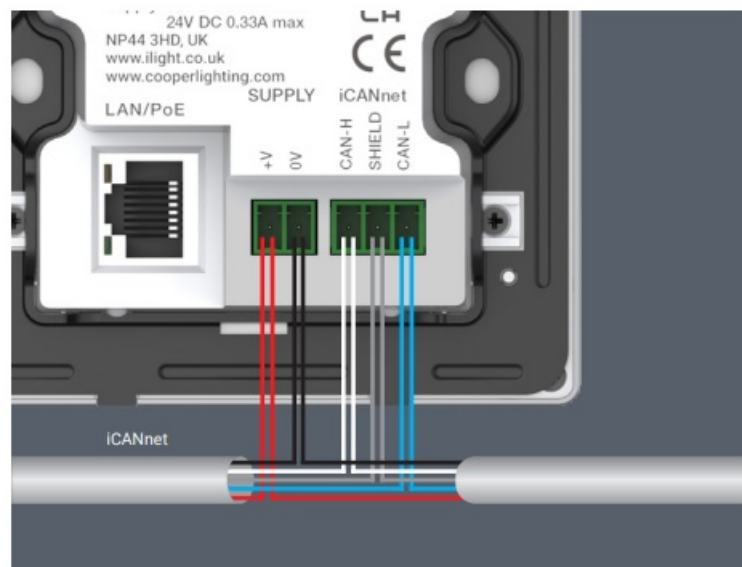
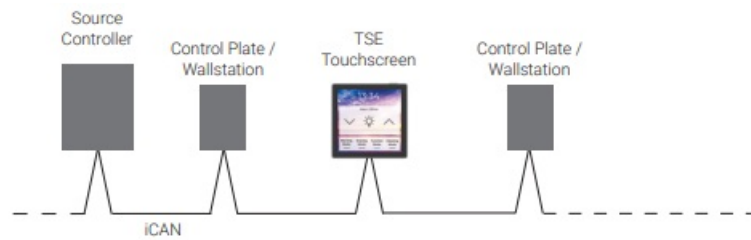
- TSE40 can connect to the lighting system using a touchscreen interface (TSI-1 or TSI-1NA) via a PoE network switch.
- Connect the TSE40 using a standard CAT5E or CAT6 Ethernet cable from the PoE network switch to the LAN/PoE socket on the back of the TSE40.
- Ensure that both the touchscreen and touchscreen interface are on the same physical Ethernet Network and within the same IP address range. See the 'TSE40/TSE100 Programming Guide' for information on setting IP addresses.



PoE Ethernet Connection

### Direct to iCANnet™ using network power

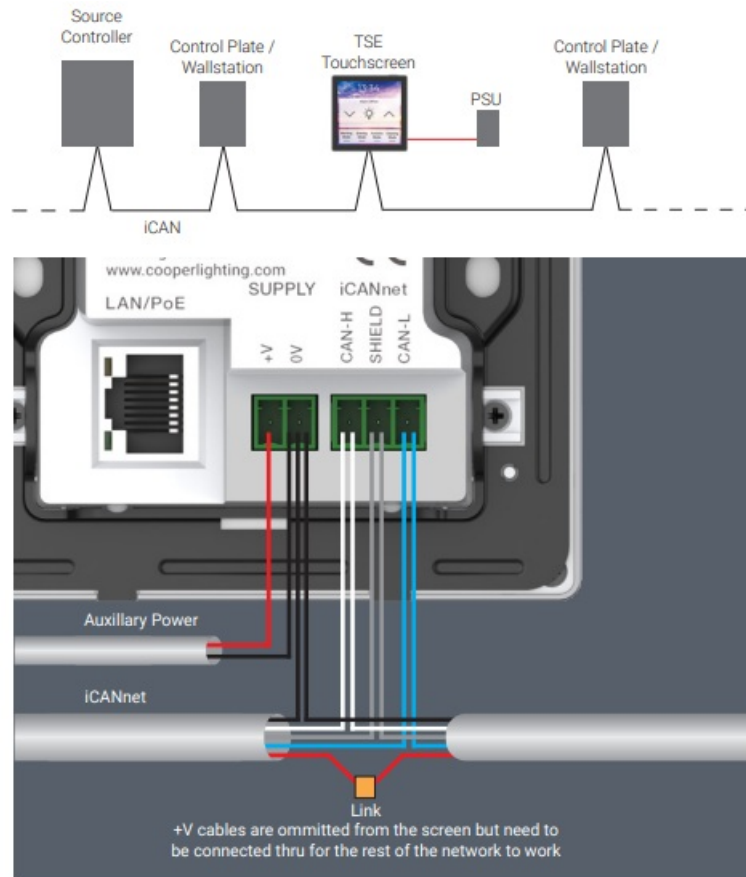
- Sufficient DC power must be available on the iCANnet™ network to accommodate the touchscreen.



## Annette Network Connections

Function	Annette Cable Colours
+VDC	Red
0V	Black
CAN H	White
Shield	Silver
CAN L	Blue

- **Maximum segment distance:** 500m (1640 ft)
- **Devices per segment:** 100 (without bridge or repeater).
- **Direct to iCANnet using auxiliary power supply** TSE40 can also be connected directly to the iCANnet<sup>TM</sup> network using an iCANnet<sup>TM</sup> cable and an auxiliary power supply.
- **Note:** When utilizing a suitable DC power supply, such as 12NC: 912600000668, be sure to fit the green power connector included with the touchscreen, paying particular attention to polarity.

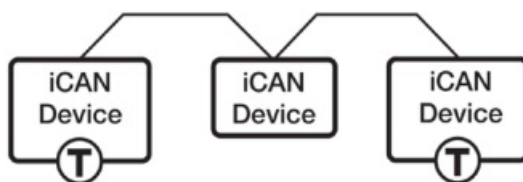


## Annette Network Connections

Function	Annette Cable Colours
+VDC	Red (Not connected)
0V	Black
CAN H	White
Shield	Silver
CAN L	Blue

## Termination

Annette is a 'daisy chain' protocol that requires termination on the device located at either end of the chain.



- If the TSE40 is the last device on the network a 120ohm termination resistor will need to be added between CAN-H and CAN-L (White & Blue). These are included in the SW3 Kit.

## Specifications

- **Dimensions:** 86mm w (3.38") x 86mm h (3.38") Mounting depth: 47mm (1.86")
- **Display:** 4" (101mm) Diagonal
- **Resolution:** 720 x 720 pixels
- **Network:** 10/100/1000 Ethernet
- **Supply:** Power over Ethernet (PoE)
  - 15V DC (12-18V) via Annette
  - 12-24V DC via auxiliary power supply

## Never apply more than 18V DC to iCANnet™

- **Current Consumption:** 12V DC – 660mA Max
- 24V DC – 330mA Max

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- EU Authorised Representative
- Cooper Lighting Netherlands B.V.
- High Tech Campus
- HTC 48, Eindhoven 5656 AE
- **Document:** TSE40 9850-001094-02

## Documents / Resources

	<p><a href="#">Smart Led Lighting Controls TSE40 Colour Touchscreen</a> [pdf] Installation Guide TSE40 Colour Touchscreen, TSE40, Colour Touchscreen, Touchscreen</p>
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## References

-  [Commercial Lighting Company | Cooper Lighting Solutions](#)
-  [Welcome to iLight | iLight](#)
- [User Manual](#)