0–10 V HOME AUTOMATION CONTROL

POWER PACK WIRING GUIDE AND CABLE IDENTIFICATION

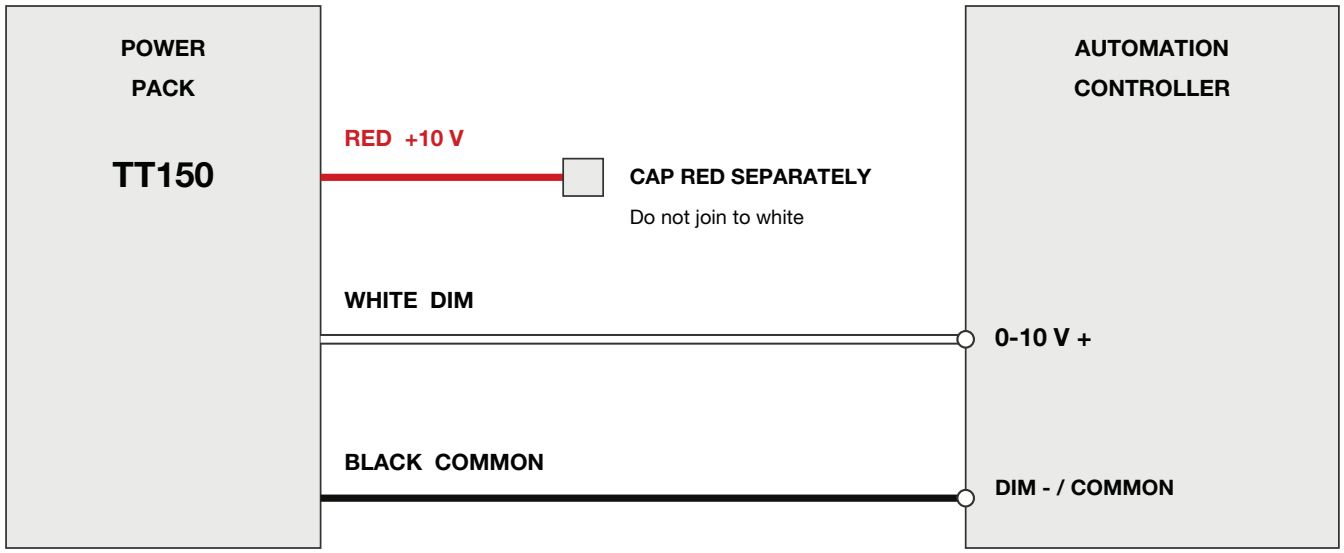
Choose the wiring option that matches the controller's 0–10 V output. Source means supplies the dimming signal; sink means receives the control current.

OPTION A CONTROLLER SUPPLIES THE SIGNAL

Power Pack SINK mode • Use with a SOURCING controller

WHITE receives the controller's signal. BLACK is common. RED is capped separately. This option remains subject to power pack confirmation.

CONTROLLER SUPPLIES THE SIGNAL



DIMMING WIRES ONLY • Power input and light output wiring not shown

INSTALLATION STEPS

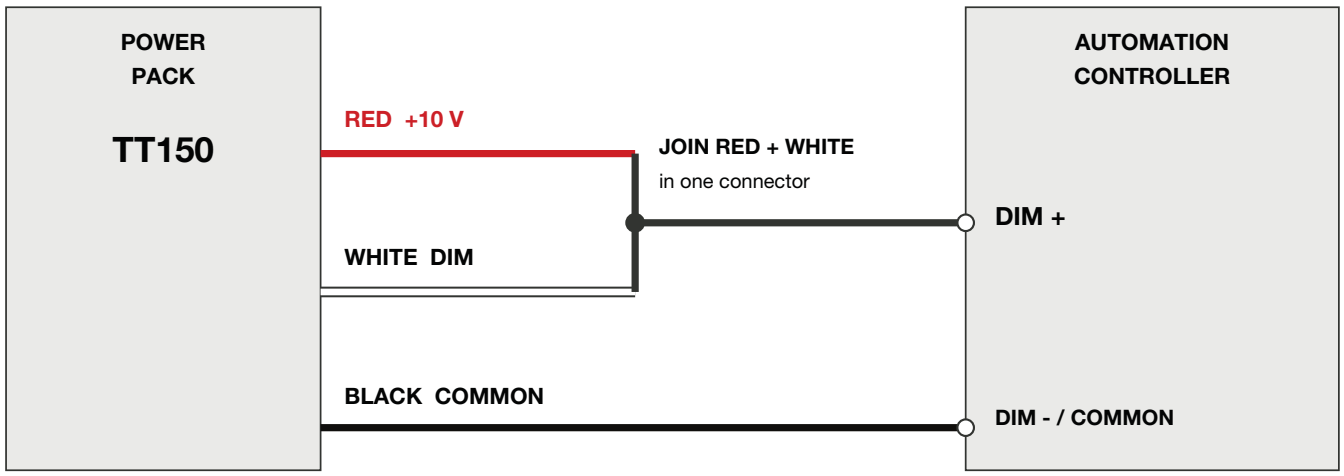
1. Turn OFF power to the power pack and controller. Verify power is off.
2. Connect the power pack's WHITE wire to the controller's 0–10 V + output.
3. Connect the power pack's BLACK wire to the controller's DIM − or dimming common terminal.
4. Cap the RED wire separately. Do not connect it to WHITE or to the controller.
5. If mode settings are provided, select power pack SINK and controller SOURCE. Follow the equipment instructions for automatic modes.

OPTION B POWER PACK SUPPLIES THE SIGNAL

Power Pack SOURCE mode • Use with a SINKING controller

RED and WHITE are tied together. BLACK is the dimming common.

POWER PACK SUPPLIES THE SIGNAL



DIMMING WIRES ONLY • Power input and light output wiring not shown

INSTALLATION STEPS

1. Turn OFF power to the power pack and controller. Verify power is off.
2. Join the power pack's RED and WHITE wires in a suitable connector. Connect that joined pair to the controller's DIM + terminal as shown, once terminal routing is confirmed.
3. Connect the power pack's BLACK wire to the controller's DIM − or dimming common terminal.
4. If mode settings are provided, select power pack SOURCE and controller SINK. Follow the equipment instructions for automatic modes.

Use this red and white connection only for this power pack's confirmed source configuration. Do not apply it to other power packs by wire color alone.

GENERAL WIRING REQUIREMENTS

Use dimming terminals only. Never connect these three wires to line voltage. BLACK is a dimming common; do not assume it is AC neutral or protective earth. Use connectors and enclosures rated for the installation location, including wet locations outdoors.

For multiple power packs, use an approved group wiring diagram and check the controller's total dimming current rating. Do not combine RED outputs from multiple power packs unless the manufacturer permits it.

TESTING AND OPERATION

Restore power and test full brightness, mid level, minimum and OFF. If lights remain on at minimum, confirm whether the power pack supports dim to off or needs an approved power switching relay. Turn power OFF before correcting wiring.

Controller selection: Check the exact Crestron, Control4 or Lutron module model for SOURCE, SINK or automatic operation. Select by module specification, not brand name alone.

TT150 POWER PACK CABLE IDENTIFICATION

Long cable Remote photocell. If used, cover the photocell on the control panel.

Short cable Home automation control only. Do not attach lights to this cable.



TT150 cable assembly with cable identification labels shown.