

Information Power Pack TR 200 Power Pack TR 250



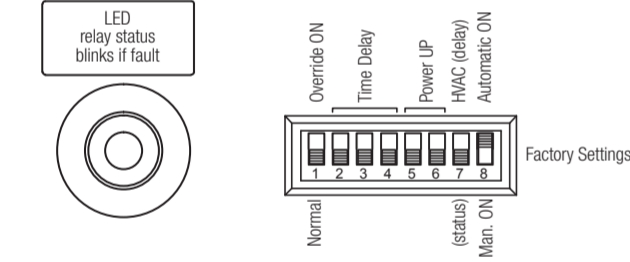
Operation

The TR 200 and TR 250 power packs work with STEINEL low voltage occupancy sensors and other control devices.

TR 200 / 250 DIP Switch Settings

Table with 4 columns: Time Delay, 2, 3, 4. Rows include 8s (test), 5 Minutes, 10 Minutes, 15 Minutes, 20 Minutes, 25 Minutes, 30 Minutes.

Table with 2 columns: Power Up State, 5, 6. Rows include Turn OFF, Turn ON, Last State.



Les modèles TR 200 et TR 250 sont des alimentations de sortie de classe 2, adaptées à une interconnexion parallèle.

Spécifications

Technical specifications table for the power pack, including Tension, Puissance, Charge, Environnement, Relais isolé (TR 250), Dimensions du pack d'alimentation, Embout fileté, Dimensions, 5 ans de garantie, and Classe plenum UL 2043.

US WARNING

- Turn power off at the circuit breaker before installing the power pack
• Power pack must be installed and used in accordance with appropriate electrical codes and regulations
• Installation by a qualified electrician is recommended

Package Contents

- One TR 200 or TR 250 power pack
- Two lock nuts
- Installation instructions

Installation Overview

- Needed for installation
• Power packs should be installed according to state, local and national electrical codes and requirements.
• Low voltage wiring: at least 22-gauge
• High voltage wiring: at least 14-gauge
• For plenum room ceilings, use UL listed plenum-approved cables.

Intended uses

- For indoor use only
• The power pack can be used as a standalone unit, low voltage switch, or can be wired to a sensor for automated control.

Product Overview

Product description
The TR 200 and TR 250 are full-featured super duty lighting and plug load power packs that provide power to STEINEL low voltage occupancy sensors and other control devices.

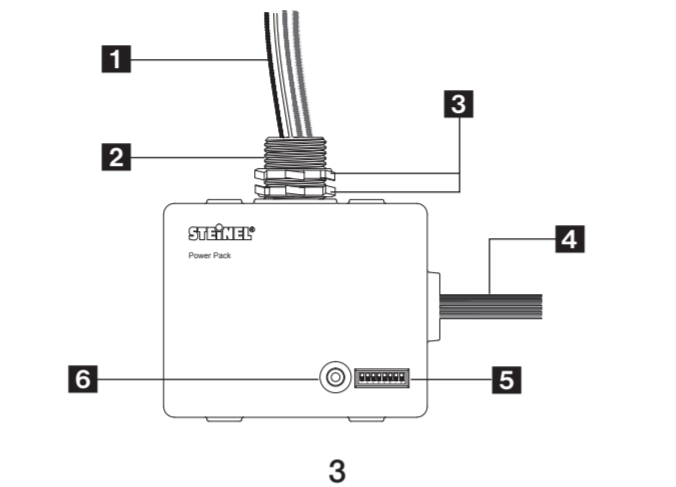
The TR 250 contains force on and force off inputs for use with a building management system and an isolated normally open and normally closed relay for signaling a BMS, HVAC controls or other low voltage devices.

The TR 200 and TR 250 are Class 2 Output Power Supplies, suitable for parallel interconnection.

- DIP 1 Normal / Override ON
- Normal - all inputs are enabled and the power pack functions according to DIP settings
- Override ON - forces on the load regardless of dip settings or control input
• DIP 2, 3, 4 Time Delay
- Replaces the time delay of the sensor
- Only for use with Control Pro (Brown communication link)
- Adjustable from 8 seconds to 30 minutes
• DIP 5 & 6 Power UP State
- Allows you to select the relay status when power is restored.
- Options: Last State, ON or OFF
• DIP 7 (TR 250) HVAC (status) / (delay)
- Status: HVAC relay follows the state of the line voltage relay
- Delay: HVAC relay changes state based on occupancy ONLY and follows the time delay setting of the power pack if the communication link (brown) wire is connected.
• TR 200 DIP 7 (not used)
- Must be in the down position.
• DIP 8 Manual ON / Automatic ON
- Manual ON: Manual switch activation is required for the load to turn ON. Exception: Retrigger function - If the sensor detects occupancy within 30 seconds after the load turns OFF, the load will turn ON again.
- Automatic ON: Load turns ON automatically based on occupancy.
- Lights turn off automatically in both modes.

Specifications

Specifications table for the power pack, including Voltage, Output, Load, Environment, Isolated relay (TR 250), Power pack Dimensions, Threaded Nipple Dimensions, 5 year warranty, and UL 2043 Plenum Rated.



Input Signal table for the power pack, detailing DIP settings for Line Voltage, Relay, and HVAC status, and the resulting sensor ON/OFF states and actions.

LED Indicator

Normal Operation: The LED follows the state of the relay under normal operating conditions.

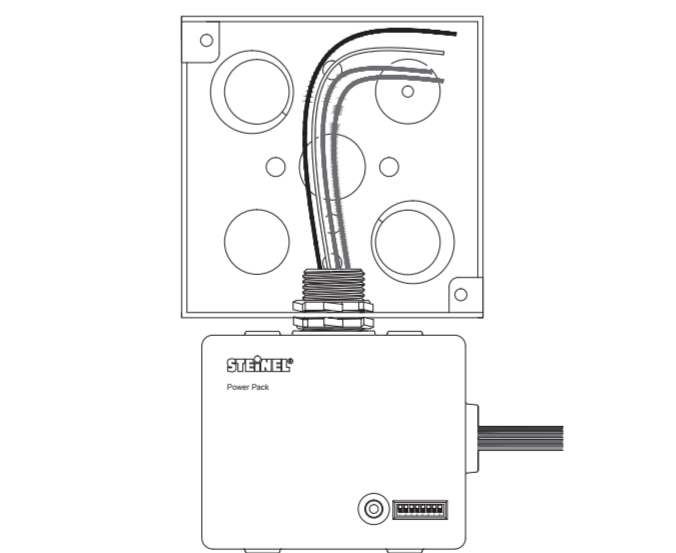
Overload Condition: If the 24VDC is overloaded (greater than 270mA) the LED indicator will slowly blink, the load will turn off but 24VDC will continue to be available.

Short Circuit: If there is a short circuit in the 24VDC wiring the LED will turn off, the load will be turned off and the 24VDC will be shut down.

Over Temperature: If there is an over temperature in the power pack (100°C) the LED will blink rapidly, the load will be turned off but 24VDC will continue to be available.

Low voltage inputs

Blue (Control input) - for use with an occupancy sensor, photo control or other signaling device providing a maintained (12 to 24 VDC) voltage relay signaling the power pack.



Montage

- Consignes de montage
• Les packs d'alimentation TR 200 et TR 250 se montent sur un boîtier de jonction avec des débouchures de 1/2 pouce.

Instructions de montage

- Retirer le contre-écrou supérieur du raccord à emboutir 1/2 po.
• Poser les fils d'alimentation et le raccord à emboutir 1/2 po à travers la débouchure 1/2 po.
• Réinstaller le contre-écrou et serrer.

Câblage

- Avant l'installation, assurez-vous que l'alimentation électrique a été coupée au niveau du disjoncteur et que le courant ne passe plus dans le circuit, au moyen d'un testeur de tension.
• Après l'installation, vérifiez que le câblage est correct afin d'éviter tout dommage au niveau du pack d'alimentation, de l'éclairage et des dispositifs de commande.

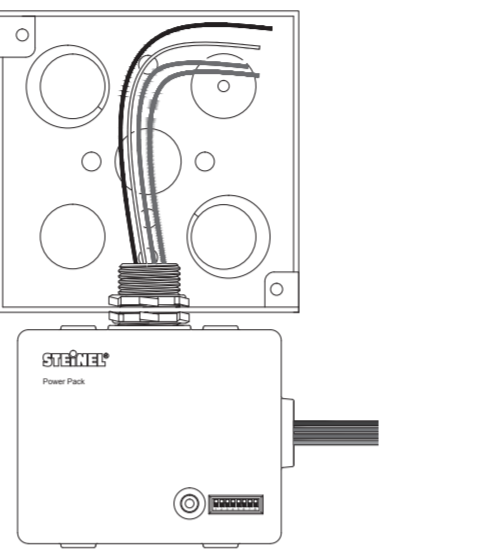
- 1 Line voltage wires
2 1/2 inch threaded chase nipple
3 Two lock nuts
4 Low voltage wires
5 DIP switches
6 LED status indicator

Mounting

- Mounting guidelines
• The TR 200 and TR 250 power packs mount to a junction box with 1/2 inch knockouts.

Mounting instructions

- Remove the top lock nut from the 1/2" chase nipple.
• Place line voltage wires and 1/2" chase nipple through 1/2" knockout.
• Reinstall the lock nut and tighten.



Orange (Override ON) - intended for use with maintained (12 to 24VDC) voltage return from a time clock, building management system or override switch.

Brown / Orange (Force Off) - intended for use with a building management system, photo controller, demand load control or override off switch providing a maintained voltage input of (12 to 24VDC).

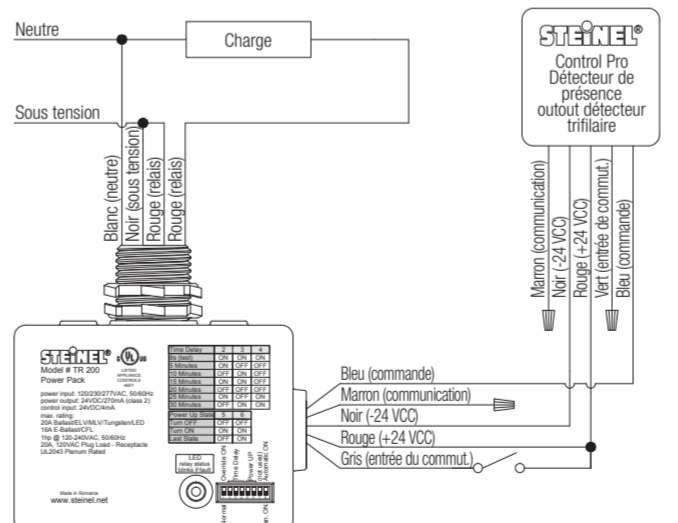
Gray (Switch Input) - Allows manual control of the load with a maintained or momentary switch.

Brown (Communication Link) - For use with the communication link input of all STEINEL Control Pro Sensors.

If the power pack is in automatic mode, it will turn on the load when occupancy is detected. If the power pack is in manual on mode, the occupant must first activate the switch to turn on the load.

If both the blue (Control Input) and brown (Communication Link) are connected, the line voltage load will remain on for the longest of either, sensor time delay or power pack time delay.

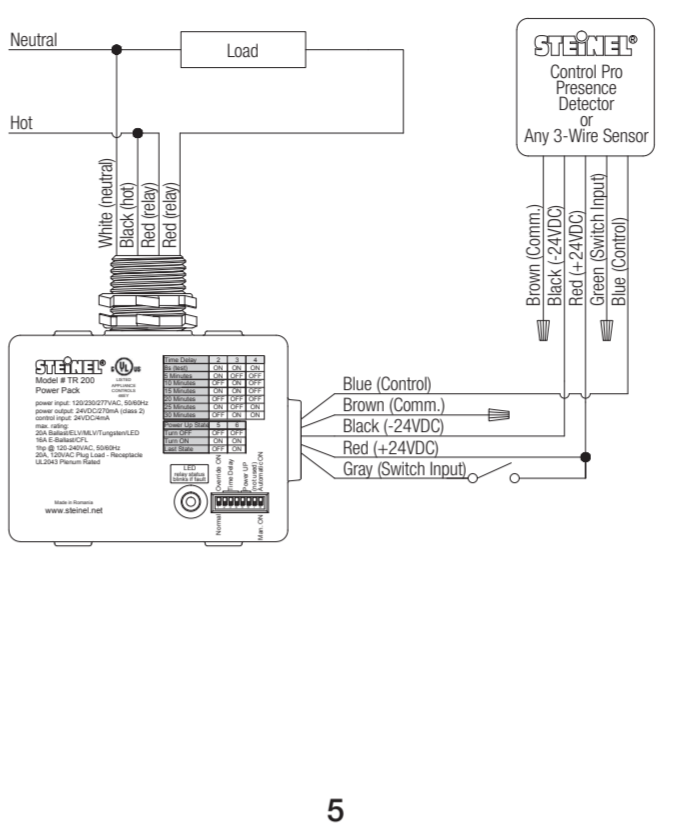
Câblage TR 200



Wiring

- Before installation, make sure that power has been switched off at the breaker and check that the circuit is dead with a voltage tester.
• After installation, verify wiring is correct to avoid damage to the power pack, lighting, and control devices.

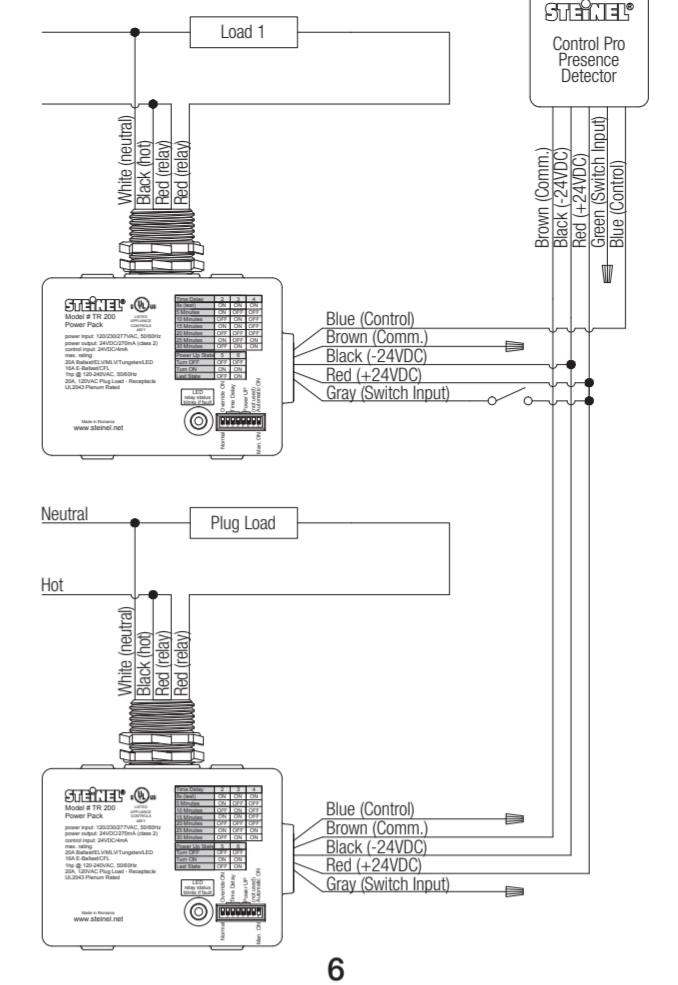
TR 200 wiring



Troubleshooting

Troubleshooting table with columns: Problem, Cause, Remedy. Issues include no power at the sensor, lights do not switch ON/OFF, lights switch ON without obvious movement, and sensor detects occupancy but turns off in 2 seconds.

Manual On Lighting Load and Automatic On Plug Load

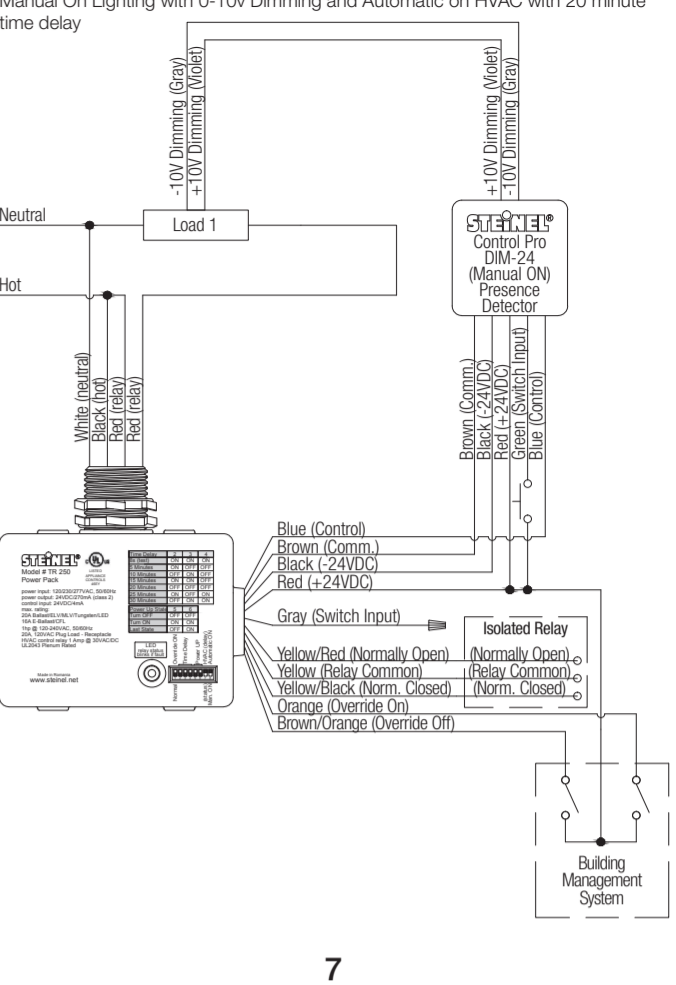


Warranty

STEINEL America warrants its products against defects in material or workmanship for a period of five years.



TR 250 power pack, DIM-24 sensor



FR ATTENTION

- Couper l'alimentation électrique au niveau du coupe-circuit avant d'installer le pack d'alimentation
• Le pack d'alimentation doit être installé et utilisé conformément aux codes et règlements applicables en matière d'électricité
• Une installation par un électricien qualifié est recommandée

Contenu de l'emballage

- Un pack d'alimentation TR 200 ou TR 250
- Deux contre-écrous
- Consignes d'installation

Aperçu de l'installation

- Nécessaire à l'installation
• Les packs d'alimentation doivent être installés conformément aux codes et exigences locales, régionales et nationales en matière d'électricité.
• Câblage basse tension : au moins 0,64 mm de diam. (22 gauges)
• Câblage haute tension : au moins 1,626 mm de diam. (14 gauges)
• Pour des plafonds suspendus/pour plenums, utiliser des câbles homologués plenum et listés UL.

Usages prévus

- Pour usage à l'intérieur uniquement
• Le pack d'alimentation peut être utilisé en tant qu'appareil autonome, interrupteur basse tension ou peut être relié à un détecteur pour une commande automatisée.

Aperçu du produit

Description du produit
Les packs d'alimentation TR 200 et TR 250 sont des packs d'alimentation entièrement équipés et ultra-robustes pour les charges d'éclairage et de prise alimentant les détecteurs de présence basse tension STEINEL et autres dispositifs de commande.

Le modèle TR 250 contient des entrées de marche et d'arrêt forcés à utiliser avec un système de gestion des bâtiments et un relais isolé ouvert et fermé normalement pour signaler un système de gestion des bâtiments, des commandes CVC ou d'autres appareils à basse tension.

Fonctionnement

Les packs d'alimentation TR 200 et TR 250 fonctionnent avec les détecteurs de présence basse tension STEINEL et autres dispositifs de commande.

Réglages des commutateurs DIP du TR 200 / TR 250

Table of DIP switch settings for various time delays and states (MARCHÉ, ARRÊT, etc.).

Table of DIP switch settings for État démarrage (DÉSACTIVER, ACTIVER, etc.).

