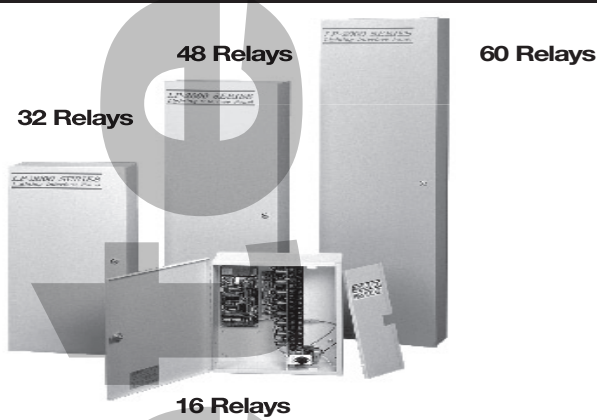


Lighting Control Panel



Overview

TRIA TEK Lighting's L25/26 Series UL Listed, FCC approved Lighting Control Panel provides the capability to control high voltage lighting circuits via two wire RS-485 network maintained contact signals from an automation or control system, and momentary contacts from override switches.

The L25/26 Series Lighting Control Panel accepts up to 120 site programmable switch inputs. These inputs can be either momentary or maintained. The unit provides the capability to assign any of its inputs to any of 60 zones via easy-to-use pushbuttons on the unit or from a laptop or PC. The high voltage latching contactors in the unit can be easily assigned to any of the units 60 zones through "soft-wiring", eliminating all low voltage zone to relay wiring.

The L25/26 Series Lighting Control Panel integrates with most building automation systems. This capability lowers the installation and operating costs through an integrated HVAC/Lighting control system. It also reduces frustration for the building engineer by eliminating the need to learn to operate and maintain a separate lighting control system.

Specifications

Electrical

Programmable Inputs	24 standard, up to 120 (maintained or momentary)
Output Rating	Lamp Load -20 amp Ballast 277VAC, 20 amp Tungsten 277VAC 20 amp Resistive 277 VAC Optional 20 amp Ballast 347 VAC
Output Contacts	SPST maintained
Output Terminals	2 terminals, 2 back wiring holes or #14-10 AWG solid or stranded wire, copper wire only
Panel Power Supply	115/277 VAC, 30 VA, 60Hz ± 10% Optional 347VAC, 60Hz ± 10% for Canadian use
Communications	Network ready, two wire RS-485

Environmental

Operating Temperature	32° to 125°F
Operating Humidity	20% - 95% RH, Non-condensing

Specifications (cont.)

Certification

Underwriters Laboratories - Complete System - Relay	UL 916 UL 508
Canadian Standards Association	C 22.2-205
New York City Approved	#37908

Mechanical

16 Relays	14" W x 17.5" H x 5" D
32 Relays	14" W x 30.5" H x 5" D
48 Relays	14" W x 43.0" H x 5" D
60 Relays	14" W x 54.0" H x 5" D

Ordering Instructions For L2500 Series

Step 1 - Panel

L25□□

PANEL CAPACITY

- 16 = 16 Relays Maximum (includes electronics)
- 32 = 32 Relays Maximum (includes electronics)
- 48 = 48 Relays Maximum (includes electronics)
- 60 = 60 Relays Maximum (includes electronics)

Step 2- Relays

* **LR-3 = 20 Amp Latching**

*Select quantity of relays between 0-60 in increments of 1, but do not exceed panel maximum. Relays must be ordered separate.

Ordering Instructions For L2600 Series

Step 1 - Panel

L26□□

PANEL CAPACITY

- 16 = 16 Relays Maximum (includes electronics)
- 32 = 32 Relays Maximum (includes electronics)
- 48 = 48 Relays Maximum (includes electronics)
- 60 = 60 Relays Maximum (includes electronics)

Step 2- Relays

* **LR-5F = 20 Amp Latching w/ Feedback**

*Select quantity of relays between 0-60 in increments of 1, but do not exceed panel maximum. Relays must be ordered separate.

NOTE: All L series relay panels and RCS1000 are provided with a dual voltage power supply 120 VAC and 277 VAC unless noted on the order as described. If a different power supply is required, please add line to order , 1 lot 347 or 1 lot 220 V 50 HZ, per panel. This option is provided at no additional cost.

Features

ZONE AND CONTACTOR ASSIGNMENT

This software feature provides the capability to group any or all of the unit's contactors to any zone. In a matter of seconds, contactors can be added or deleted from a zone. Due to this unique software feature no tools or electricians are required to hard wire contactors to zones.

SWITCH INPUT TIME-OUT

This software feature provides the capability to have any of the lights associated with a momentary switch turn OFF after a programmable amount of time has elapsed.

ZONE PRIORITY

This software feature provides the capability to set-up priorities for each of the zones because multiple inputs can be assigned to the same zone so an order of priority may need to be established.

FLASH MODE

This software feature provides the capability to flash the lights (latch/unlatch) associated with an input. The purpose of this feature is to warn people so that they will exit the area or override the lights before the unit automatically turns the lights off.

ON-TIME AFTER FLASH WARNING

This software feature provides the capability to set the length of time the lights will be on after the lights have been flashed.

FLASH WARNING TIME

This software feature provides the capability to set the length of the flash off time during the Flash Warning.

CONTACTOR (RELAY) ENERGIZE TIME

This software feature provides the capability to set the length of time the contactor coil is energized by the unit.

MAXIMUM CONTACTORS (RELAYS) IN SYSTEM

This feature provides the capability to set the maximum number of contactors in the unit which can be activated. For instance, a forty-eight contactor unit may only have twenty-two contactors installed. This feature will provide a way to set the maximum number of contactors in software to match the number of contactors installed in the unit. As contactors are added during expansion, then the maximum number in software can also be increased.

AUTOMATIC OUTPUT SEQUENCING

This software feature automatically sequences each output rather than energizing all relays in a group at once.

MAXIMUM INPUTS IN SYSTEM

This feature provides the capability to select the maximum number of inputs the unit will monitor. The unit is capable of one-hundred-twenty inputs so only the number of inputs in use need to be set up in software. The unit comes standard with twenty-four inputs.

INPUT POLARITY

This software feature provides the capability to set each input for either normally open or normally closed contacts.

CHECKING INPUT STATUS

This software feature provides the capability to display the status of each of the unit's inputs.

PROGRAMMABLE INPUT

This software feature provides the flexibility to select zones controlled by input, type of input (maintained, momentary on, momentary off, 3-level, momentary toggle contact, or linked switch for multi-level lighting control), timer associated with input, flash warning and polarity of input.

LED TIME OUT

This feature prolongs the LED life and reduces heat build-up in the unit by putting LEDs to "sleep" after 10 minutes of no pushbutton use. To "wake" up the LEDs, simply press any pushbutton.

EPROM AND EEPROM DIAGNOSTIC AND SOFTWARE VERSION

This feature verifies integrity of the unit's EPROM (Electrically Programmable-Read Only Memory) and EEPROM (Electrically Erasable Programmable Read Only Memory) and displays the unit's software version number. If the unit detects any problem with its memory after power up it will indicate a problem exists by flashing a warning LED. This feature can be activated at any time so a technician can check the software version number or force an integrity verification on the EPROM and EEPROM.

Features

MANUAL OVERRIDE

This feature provides the capability to manually override any of the unit's thirty zones. This feature is ideal for the testing of the panel during installation or if the device controlling the panel fails.

CONSTRUCTION MATERIALS

The units enclosure is constructed of 16 gauge steel (14 gauge for 60 relay unit) coated with polyurethane enamel with textured hinged door and cylinder lock. Standoffs are provided for the factory mounted microprocessor module and relay interface board. The relay interface board connects each high voltage contactor to the microprocessor via ribbon cables. Each high voltage latching contactor is rated for 227V, 20 Amp (347V, 20 Amp for Canadian use). A barrier is provided for snap in mounting of the high voltage contactors and separation of the low voltage and high voltage wiring. A dual primary 277/120 to 24VAC transformer is factory mounted in the unit and supplies all necessary power. A replaceable fuse is provided on the primary side of the transformer. A removable cover for the high voltage side of the enclosure is provided to protect against accidental shock from high voltage circuits. All assembly and testing of these components is completed at the factory prior to shipment. No assembly of the unit is required in the field other than typical installation of inputs, outputs and power.

PRODUCT CERTIFICATION AND TESTING

The unit is Listed by Underwriters Laboratories, Inc. (UL & CSA approved) and approved by FCC. In addition, our quality control technicians perform burn in testing of the unit. This test includes a minimum of a 24 hour period where all of the contactors in the unit are cycled continuously. After the burn period the unit is re-checked and any faulty components replaced. This minimizes product failures in the field and assures a higher quality product.

Panel Layout

