



## Complete Line of Thermal Protectors

For Recessed Incandescent, Fluorescent and HID Lighting Applications

- Complies with UL 873 requirements
- UL Recognized Component E-79658
- CSA LR-83639
- Wide choice of voltage and temperature ratings available
- Cat. No. 9454 and 35000, US Patent Nos. 5,177,658; 5,157,579; D278,050; D294,914; D328,284; 5,528,448; 5,719,736; 5,321,576  
Canadian Patent Nos. 4,694,223; 1,265,185; 1,236,515
- Other US and foreign patents pending

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NOTE: Dimensions in parentheses are in millimeters. All other dimensions are in inches.

**NOTE:** Thermal protectors are specialized devices with specific requirements for proper usage. Leviton is not responsible for improper selection of device, misuse, misinstallation or misapplication. Selection of product type, choice of application and installation should only be done by a qualified engineer.

## SECTION

# F

## SECTION F

## Self-Heating Thermal Protectors Feature

- Patented clips that snap into 1/2" trade-size knockouts for faster installation and reduced assembly time. (Reverse clip available upon request.)
- A simple identification numbering system that makes the correct rating choice easy for the manufacturers.
- Models available that comply with Articles 410-65(c) and 410-73(f) of the National Electrical Code for UL Listed and CSA Certified incandescent, fluorescent and HID fixtures, respectively.
- Standard leads are No. 18 AWG 105°C AWM-TEW plastic insulated wire, 6" long, stripped 1/2".

### Leviton's Easy Identification System

Use Leviton's easy identification system to select the proper thermal protection device for your requirements.

The basic catalog number, 9454, is followed by a letter and two digits, such as 9454-W25.

Therefore, Cat. No. 9454-W25 is a four-lead, dual-rated thermal protection device with a 7.2k resistor and an opening temperature of 125°C.

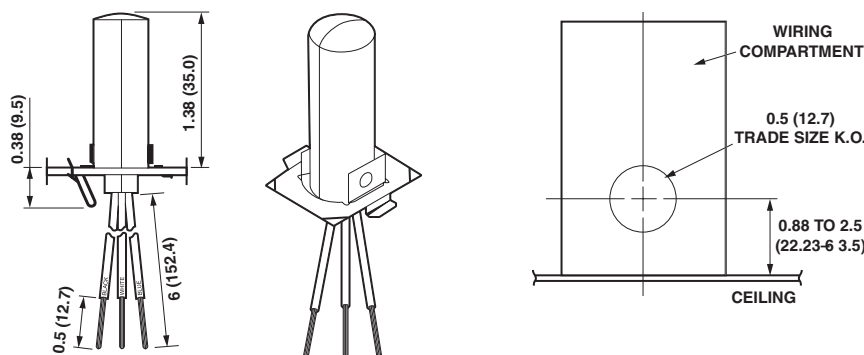
#### The letter designates the resistor values:

3-Lead Devices	4-Lead Devices
<b>A</b> = 7.2k resistor (120V)	<b>R</b> = 9.5k resistor (120/347V)
<b>B</b> = 12.3k resistor (120V)	<b>T</b> = 12.3k resistor (120/347V)
<b>C</b> = 37.5k resistor (277V)	<b>U</b> = 21.5k resistor (120/347V)
<b>D</b> = 8.2k resistor (120V)	<b>W</b> = 7.2k resistor (120/347V)
<b>E</b> = 21.5k resistor (208V)	<b>Y</b> = 8.2k resistor (120/347V)
<b>F</b> = 37.5k resistor (277V)	<b>Z</b> = 7.2k resistor (120/347V)
<b>G</b> = 72.0Ω resistor (12V)	
<b>H</b> = 28.8k resistor (240V)	
<b>J</b> = 9.5k resistor (120V)	
<b>K</b> = 72.0Ω resistor (12V)	
<b>L</b> = 43.5k resistor (277V)	
<b>M</b> = 60.0k resistor (347V)	
<b>P</b> = 72.0Ω resistor (12V)	
<b>S</b> = 7.2K resistor (120V)	

#### The two digits designate the opening temperature of the protection device in degrees Centigrade:

75 = 75°C	05 = 105°C	30 = 130°C
80 = 80°C	10 = 110°C	35 = 135°C
85 = 85°C	15 = 115°C	40 = 140°C
90 = 90°C	20 = 120°C	45 = 145°C
95 = 95°C	25 = 125°C	50 = 150°C
00 = 100°C		

NOTE: Custom-made thermal protectors with specified temperature profile and geometry are available on special request.



Cat. No. 9454

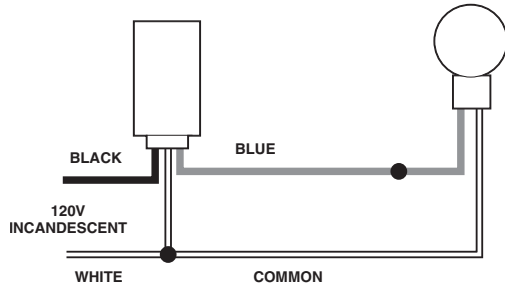
# SELF-HEATING THERMAL PROTECTORS

Fast Installation

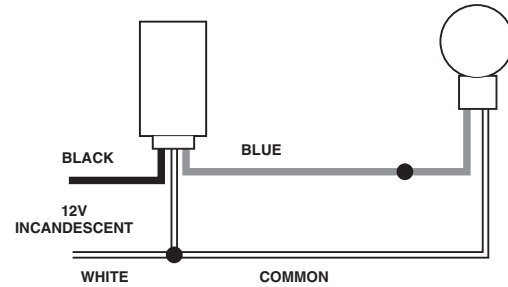


INCANDESCENT • HID • FLUORESCENT

## Wiring Diagrams for Incandescent Applications

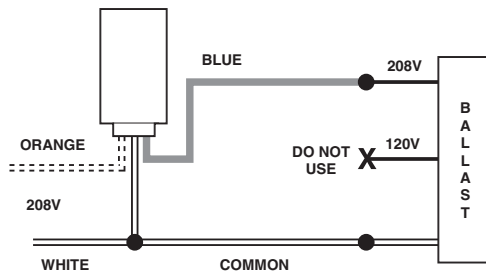


For Resistor Values B, D and S

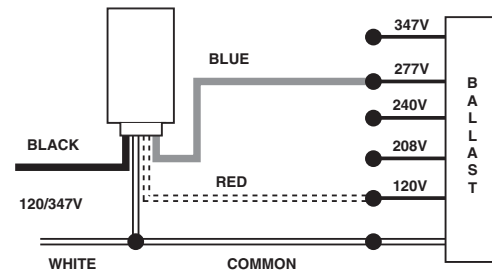


For Resistor Values G, K and P

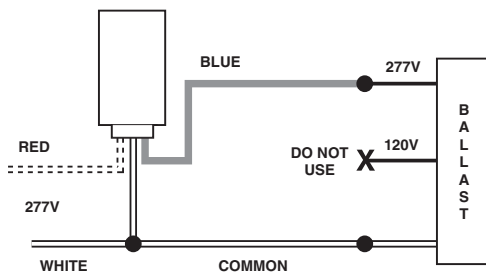
## Wiring Diagrams for HID and Fluorescent Applications



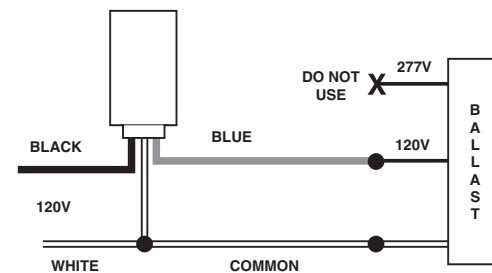
For Resistor Value E



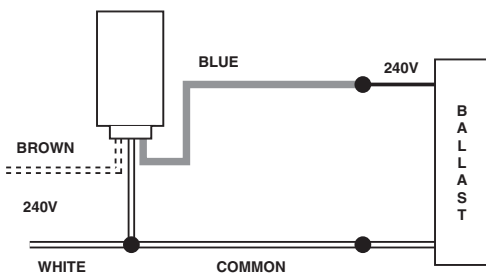
For Resistor Values R, T, U, W, Y and Z



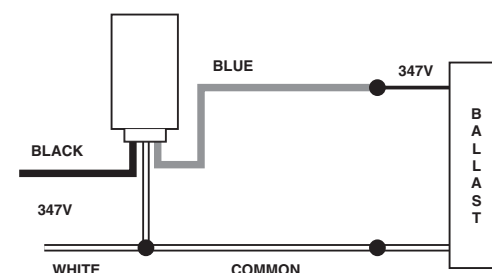
For Resistor Values C, F and L



For Resistor Values A, B, D, J and S



For Resistor Value H



For Resistor Value M

SECTION F



## Cat. No. 35000 Snap-In Housing

Available with Leviton's Cat. No. 31282 In-Line Thermal Protection Harness Set

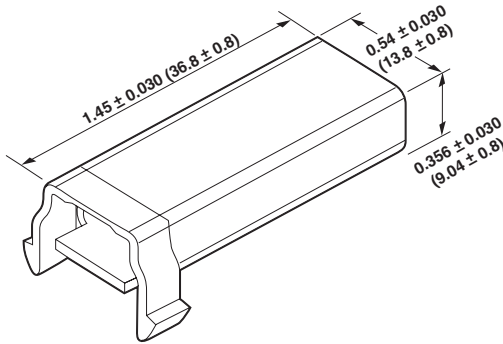
- Mounts directly to recessed fixture
- Eliminates the need for heat shrink tubing
- Generates savings by cutting assembly time

### Cat. No. 35000

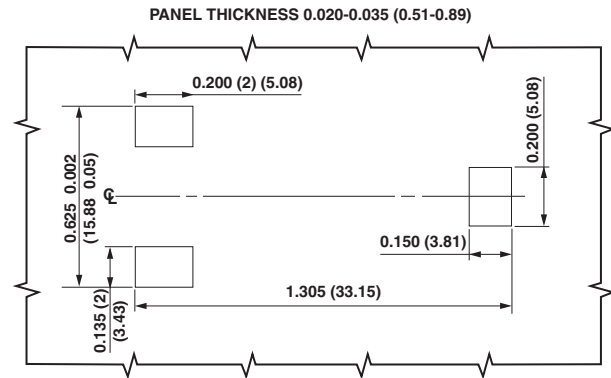
- UL Recognized Component E-79658 • US Patent No. DES. 328,284.
- CSA Certified LR-83639 • NOM Certified 057

**Note:** For ease of assembly, Cat. No. 35000 should enter panel in the same direction as the panel punch.

35000



Dimensional Drawing



Suggested Panel Opening Diagram

## Complete In-Line Thermal Protection Wiring Harness Set

With No. 35000 Snap-In Housing and Snap-In Lampholder

**Cat. No. 31282** Thermal Protector Wiring Harness Set—Custom designed for your application.

To order, specify the following:

- 1. Thermal protector rating**—Available in temperatures ranging from 75°C to 150°C, in 5° increments.
- 2. Wire type and lead lengths** for A and B, plus stripping length D. Also specify length of wire lead C between thermal unit and lampholder. Refer to diagram below.
- 3. Lampholder**—Standard lampholder with harness set is the Cat. No. 38887-101 porcelain lampholder, rated 660W-250V. Other lampholders available upon request.



31282

**Cat. No. 31282**  
Typical Harness Set

### Example of Typical Harness Set

Cat. No. 31282, 110°C ±5° Thermal Switch with No. 35000 housing assembled. Leads: No. 18 AWG XLP 150°C 300V wire. Lead lengths A and B are 12" long, stripped 1/2" (D). Lead length C is 6". With No. 38887-101 snap-in lampholder.

