
LT1 SIGNALLIGHTS™

Installation Guide



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Installation Guide

SPECIFICATIONS

| | | | |
|---------------------------|----------------------------------|----------|-----------|
| Power voltage | 24V AC/DC | 120V AC | 240V AC |
| Lamp | 30V, 10W | 120V, 7W | 240V, 10W |
| Lamp style | Glass bulb, T20, lamp base BA15D | | |
| Current draw (per lamp) | 0.3A | 0.06A | 0.05A |
| Rush current (per lamp) | approx. 3A | 0.6A | 0.5A |
| External contact capacity | 5A | 2A | 1A |
| Flashing frequency | 80 times per minute | | |

MOUNTING PROCEDURE

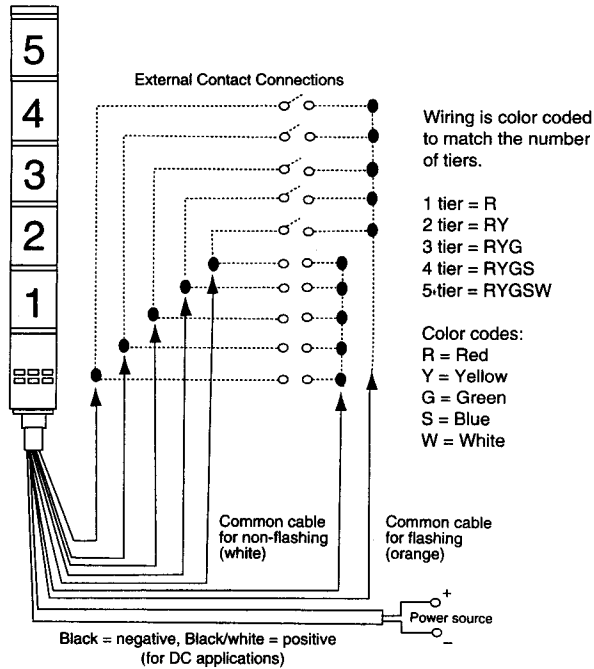
Choose from either pole mounting or direct base mounting:

| Type | Description |
|----------------------|--|
| Pole mounting | <p>Horizontal plane mounting 1: Tighten the attached M22 nuts on top and bottom of the mounting base. M22 nut recommended tightening torque: 4.0 N-m.</p> <p>Horizontal plane mounting 2: Use optional mounting base (LT1Z-3) for installation. Use commercially available M4 screws to mount the optional pole. M4 screw recommended tightening torque: 1.2 N-m.</p> <p>Use the attached L-shaped bracket for installation. Use commercially available M8 bolts and nuts to mount the L-shaped bracket. M8 bolt recommended tightening torque: 1.8 N-m.</p> |
| Direct base mounting | <p>Mount the direct base mounting type on a horizontal plane. Use the attached M4 screws for installation. M4 screw recommended tightening torque: 1.2 N-m.</p> |

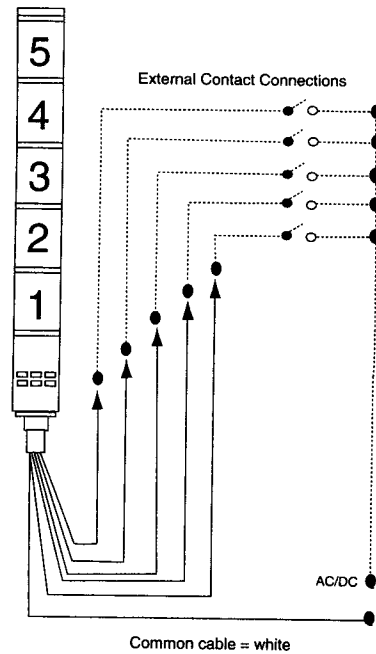
GENERAL PRECAUTIONS

1. Turn the power off before installing, removing, wiring, maintaining or checking.
2. Do not use the unit in water; electric shock may occur.
3. Do not use near combustible materials; explosion or fire may occur.
4. Do not disassemble or modify any parts, except when replacing lamps or fuses; electric shock or fire may occur.
5. Do not install the unit upside down; entrance of any water could cause electric shock.
6. Turn the power off if there is a presence of any smoke or odor.
7. After wiring is complete and the unit has been properly checked, turn the power on. Make sure the globe lenses are closed to prevent electric shock and or burns.
8. The unit is for indoor use only. Do not use outdoors; fire may occur.
9. Check the power voltages before turning the unit on and make sure the lamp voltages match the units housing indicator.
10. Check periodically for loose housing, lamps and mountings.

WIRING DIAGRAMS AND PRECAUTIONS



LT1D SERIES: NON-FLASH/FLASH TYPE



LT1A SERIES: NON-FLASH TYPE

Take the following precautions when wiring the SignalLights:

1. Use various switches, relays, or solid state relays as external contacts. For contact capacity refer to the following specifications:

24V AC/DC = 5A external contact capacity
120V AC = 2A external contact capacity
240V AC = 1A external contact capacity

When using DC voltages, connect the white-striped black line on the power cable to the positive (+) line; and the solid black line to the negative (-) line (LT1D type only).

2. Do not allow the power line to come into contact with the common line; short-circuiting could take place and damage the internal circuits (LT1D type only).
3. When two SignalLights are used in parallel, use separate external contacts for each unit to avoid potential circuit damage.

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POWER CABLE AND LINE PRECAUTIONS

1. Do not place any objects on the power cable. The cable should not be placed in a position in which it is stretched or bent around any sharp objects. Stretching and bending around sharp objects can cause breaking of insulation and create a potential for electric shock.
2. Insulate any unused power lines, common lines and signal lines before turning on the power. If these lines are not insulated, short circuiting may cause a fire or electric shock may occur. Proceed with caution when wiring the power cables.

LAMP REPLACEMENT PROCEDURE

1. Turn off the power.
2. Loosen the tier which does not light and remove the remaining tiers upward.
3. Ensure you are using the correct voltage lamp before replacing.
4. Install the new light and replace the lenses.

LAMP PRECAUTIONS

1. When replacing lamps, do not use any lamps other than the ones specified.
2. Do not cover lamps with paper or cloth. Keep all combustible objects away from the lamps; otherwise, fire or overheating may occur.
3. Do not paint the lamps – they will overheat.
4. Turn the power off before replacing lamps. Replacing lamps with the power on may cause electric shock or burns.
5. Do not insert any objects or metal into the lamp socket; shock may occur.
6. The lamp is extremely hot while on or immediately after being turned off. Use caution and only replace the lamp after it has cooled. Burns may be caused if the lamp is touched while hot.

FUSE REPLACEMENT PROCEDURE

A fuse is contained in the housing cover of both the flashing and non-flashing types. If the SignalLight fails to light or flash, first turn off the power and then check the fuse.

FUSE PRECAUTIONS

1. Before replacing fuses, turn the power off. Then install a correctly specified fuse. Replacing fuses with the power on may cause electric shock.
2. Do not use higher or lower amperage fuse than provided with SignalLight; fire or electric shock may occur.