



Traffic Safety Corporation
2708 47th Avenue
Sacramento, CA 95822
(916) 394-9884
www.xwalk.com

TS300 Installation Guide – AC Input Voltage

Your Traffic Safety light fixtures have been designed to provide you years of service if you follow our recommendations outlined in this guide.

1. Safety Measures:

You must know whether your lighting system is powered by AC or DC before installing the fixture. AC Halogen models work on either 120VAC or 240VAC, or on a range of 100 to 240VAC if LED. DC models operate from 10 to 30VDC. The lights are designed to be installed in a parallel circuit, which maintains a constant voltage and brightness for all lights.

Ensure power is off before installing or servicing fixtures!

Follow the local NEC code!

Make sure the equipment is rated and approved for the environment in which you are intending to use it. Do not operate this equipment in humid, flammable, or explosive environments unless it has been rated for safe operation in these environments.

Use only electrical wire of sufficient gauge and insulation to handle the rated current and voltage demand.

Route electrical wiring along a protected path. Make sure they will not be damaged by moving equipment.

Protect components from harsh environment conditions.

Protect equipment with safety devices as specified by applicable safety regulations.

Before starting this equipment, check all safety interlocks, fire –detection systems, and protective devices such as panels and covers. Make sure all devices are fully functional. Do not operate the system if these devices are not working properly.

Never operate equipment with a known malfunction.

Do not attempt to operate or service electrical equipment if standing water is present.

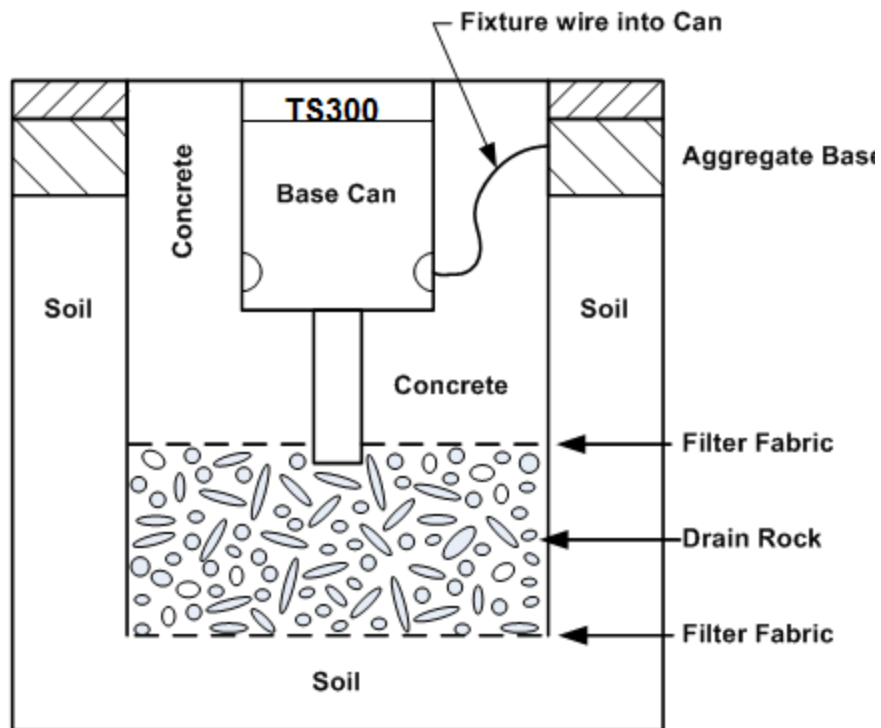
Wiring and electrical design should be authorized by an electrical contractor.



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2. Procedure:

1. Proper drainage is essential for longevity of the fixture since water intrusion can destroy the electronics inside the fixture. The fixture is weatherproof and some water is expected to enter the base can, but provisions must be made to drain the water. The following diagram outlines the requirements for proper drainage:



- a. The Drain Rock should be encased in a filter fabric material to avoid soil infiltration into the drain rock.
- b. The recommended depth of drain rock unit varies dependent upon the type of existing soils.
- c. Where existing soils are granular and permeable the depth of the drain rock unit can be limited to 1 foot.
- d. Where existing soils are fine graded and have low permeability the depth of the drain rock unit should be increased to 3 feet or greater to provide a reservoir for short term retention.

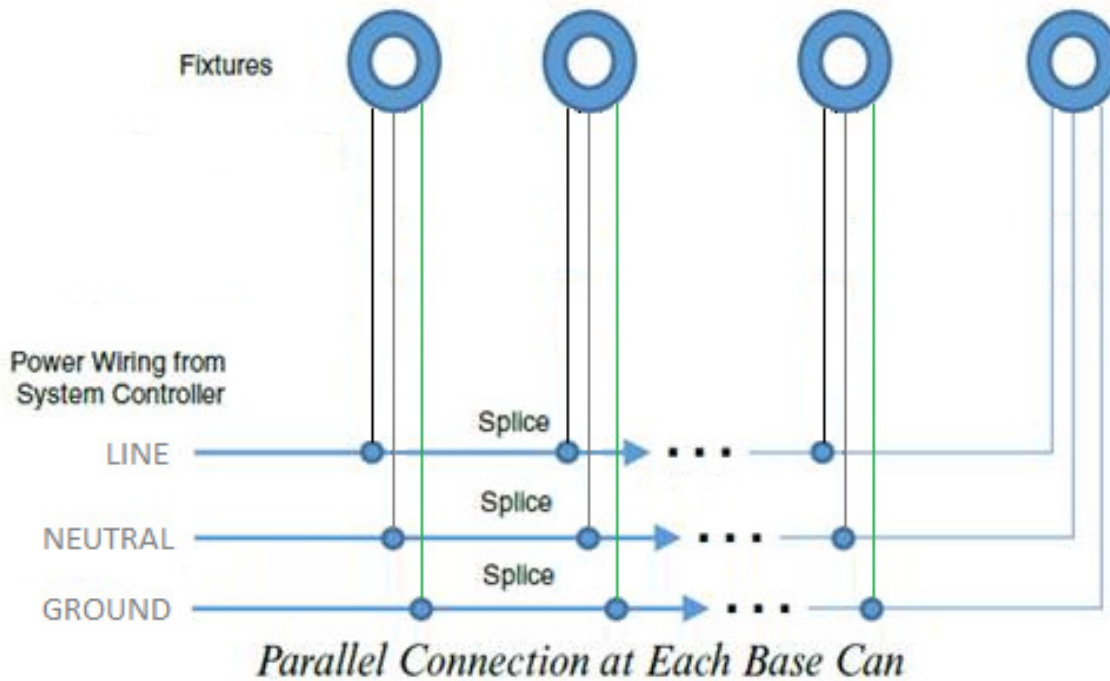
2. Installation requires a 7 ¼" bolt circle base can to house the light fixture. There is a ground lug inside the base can for your earth (ground) wiring.



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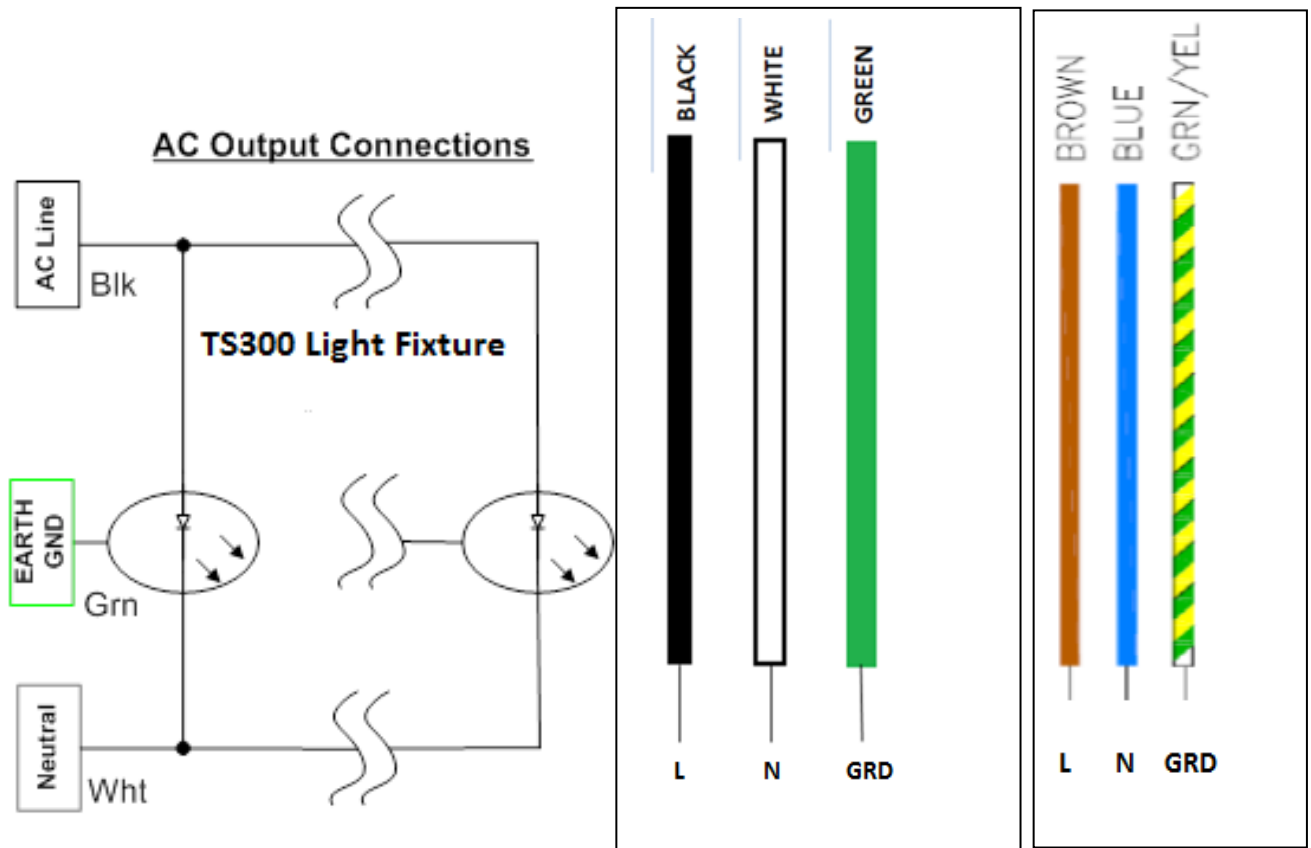


3. Ensure power is OFF before installing or servicing these fixtures! The fixtures are wired in parallel according to the following diagram:





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5. The installation of lights is recommended to be done in a parallel circuit with the splice in a secure, waterproof junction box. Junction boxes are not provided with the lights. The gauge of the electrical wire is to be calculated by the electrical engineer and should be sufficient to handle the rated current and voltage demand.
6. Wrap the mated connectors inside the can with electrical tape for added moisture protection. All electronic parts are inside a weatherproof enclosure in the enclosure.
7. Silicone is recommended to be used to seal the gap in between the fixture and the concrete.



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3. Warranty

1-Year Limited Product Warranty

For all products manufactured by TSC, but not purchased as part of a complete system, TSC provides a 1-year limited product warranty which warrants them to be free of material defects for a period of one year from the date of shipment.

5-Year Limited System Warranty

TSC supplies fully integrated and factory tested in-roadway warning light systems. TSC's systems are backed by a 5-year limited system warranty on all core components of the system purchased from and integrated by TSC. Core components are defined as the system controller, fixtures, base cans, fixture connectors, LED signs, and activation devices that are set forth in the TSC Price Book. Core components covered by the system warranty are warranted to be free of material defects for a period of five years from the date of shipment. The warranty excludes all non-core components, and components not purchased from TSC including, but not limited to, signs, beacons, lamps, batteries, solar panels, and activation devices. To avoid invalidating the TSC 5-year limited system warranty all components of the system which are connected to the system controller must be listed on the Order Submittal Form and be approved by TSC for connection to the system controller. Adding components not listed in the Order Submittal Form, without approval from TSC, voids the 5-year system warranty and the 1-year product warranty on the system controller. Breaking the security seal on a fixture voids all warranties on the fixture. System components that are approved by TSC for integration into the system, but not purchased from TSC, are excluded from TSC's 5-year system warranty and 1-year product warranty programs.

Warranty Limitations

TSC makes no warranties, express or implied, other than those stated herein. TSC does not warranty the workmanship of the installer, damage caused by acts of nature, vandalism, improper installation, or damage caused by improper maintenance. The warranty period of fixtures covered under the 5-year system warranty is reduced to two years when fixtures are subjected to abrasive materials or chemicals. TSC reserves the right to either repair or replace any defective component covered under the terms of any of its warranties. TSC is not an engineering firm and makes no expressed or implied warranty as to the applicability of its products or systems in any specific situation, application or location: such decisions are the responsibility of the owner, design engineer and/or others. Therefore, as to all goods sold by TSC, TSC hereby disclaims any implied warranty of merchantability or implied warranty of fitness for a particular purpose and Buyer agrees that TSC shall not be liable for any special, indirect, incidental, consequential or liquidated damages of any kind, whether the Buyer's or any other claim is based upon contract, tort or any other legal theory.