



LISTED DOCK
TRAFFIC CONTROL
LIGHT 1P23

INSTALLATION INSTRUCTIONS

MODEL SG30-RG-(INCANDESCENT LAMPS) and MODEL SG30-RG-LED (LED LAMPS)

STOP & GO COMMUNICATION LIGHTS

VOLTAGE REQUIREMENTS:

- Provide either AC or DC power to the 12 and 24-volt incandescent models.
- Provide **ONLY** DC power to the 12 and 24-volt LED models. (**Important Note:** LED models require careful control of the DC input voltages if generated from AC power sources. Carefully measure “rectifying modules” that turn ac signals into dc signals and adjust the input ac voltages to insure the dc voltages do not exceed 26.4 vdc.)
- **Warning:** Excess peak voltages may cause this unit to prematurely fail, resulting in partial or total loss of the warning capabilities of this device. Insure that the dc voltage applied never exceeds 26.4 vdc as measured by a peak reading voltmeter.

MODEL: SG30 (Combination System)

The SG30 consists of an SG20 (acting as the Control Unit with appropriate flasher and a center off switch. SG10 (acting as the Drone Unit), and a communication cable for interconnection. Switching the Control Unit causes the red or the green lamp to flash on the Control Unit and the opposite lamp to flash on the Drone Unit. The user is responsible for providing the proper power supply to the units, interconnecting the units, and choosing a switching means. (See the schematic diagrams that show the wiring of the two units.)

INSTALLATION: Choose an inside wall location for the SG20 (control unit containing switching capability and pre-wired interconnecting communication cable) that is clearly visible to the operators.

- 1) Choose an outside wall location for the SG10 (drone unit without switch) that is clearly visible to a driver when backing into the loading dock.
- 2) Determine the route for the communication cable between the two units.
- 3) Using the housing as a template, mark and drill the four mounting holes. Mounting hardware will depend upon the construction of the wall and is not included.
- 4) Mount the SG20 control unit with attached communication cable, using the gasket provided.
- 5) Make the connections to the drone unit (SG10 without a switch) external to the light using suitable ‘wire nuts’ or compression fittings, following the block diagram(s) provided. **Do not make any changes to the wiring inside either unit.**
- 6) Apply appropriate power and check operation: the switch on the inside-mounted control unit should cause either the red or green lamp to flash on the control unit and the opposite to flash on the drone unit. The center position will turn both units off. When installing a system that includes external sensors or logic other than that built into the SG30 we recommend you use SG10 units with your own flashing power source, or model SG20NS which is equipped with a flasher but not a switch. We do not recommend modifying any models.

Part #	Incandescent Lamp Models
203011	Red lens w/ housing
203012	Green lens w/ housing
420336	1156-style 12 v. lamp
423036	2233-style 24 v. lamp
420705	25T7DC–style 120v. lamp
533003	Lamp Harness, 12v. 24v.
533004	Lamp Harness, 120 v. ac

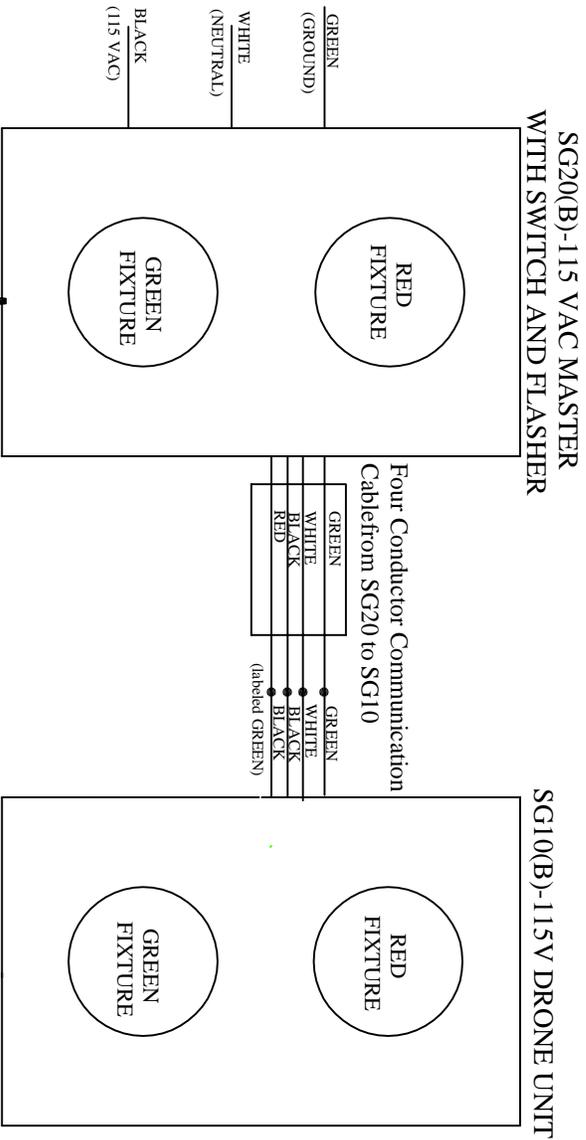
Part #	LED Models
A1612R	Red signal assembly, complete, 12 VDC
A1612G	Green signal assembly, complete, 12 VDC
A1624R	Red signal assembly, complete, 24 VDC
A1624G	Green signal assembly, complete 24 VDC
A16115R	Red signal assembly, complete 120 VAC
A16115G	Green signal assembly, complete, 120 VAC

All SG Models			
203014T	Housing with rear panel	813008	Wall gasket
403005	Switch	163296T	Flasher, solid state, 12 v. DC
410403	½’ EMT fitting	163297T	Flasher, solid state, 24 v. DC
630975	X2 Capacitor (120/240 VAC) Incandescent Lamp models only)	553030	Flasher, solid state, 120 v ac

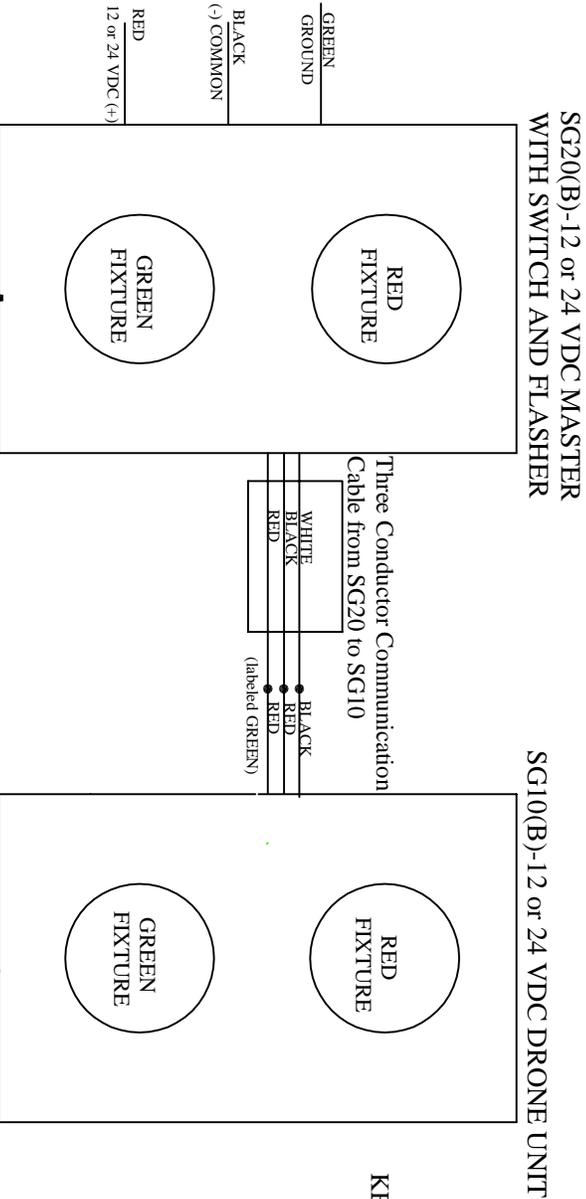


For all Incandescent and LED models.

SG30(B)-115 VAC CONNECTION DIAGRAM



SG30(B) 12 or 24 VDC CONNECTION DIAGRAM



KEY: ● EXTERNAL CONNECTION

DO NOT EXCEED peak voltage of 26.4 DC for Model SG30(B) 24RG-LED