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**LISTED DOCK**  
TRAFFIC CONTROL  
LIGHT EP23

**INSTALLATION INSTRUCTIONS**  
**MODEL SG30-RG-INC**  
**MODEL SG30-RG-LED**  
**STOP AND 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 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 unit consists of a SG20 (acting as the Control Unit with appropriate flasher and a center of witch; 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 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 connection to the drone unit (SG10 without switch) external to the light using suitable “wire nuts” or compression fittings, following the block diagram(s) provided. **Do not make changes to the wiring within 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 using SG10 units with your own flashing power source, or model SG20NS which is equipped with a flasher but no 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 12V Lamp
423036	2233-Style 24V Lamp
420705	25T7DC-Style 120V Lamp
533003	Lamp harness, 12v, 24v
533004	Lamp harness, 120v AC

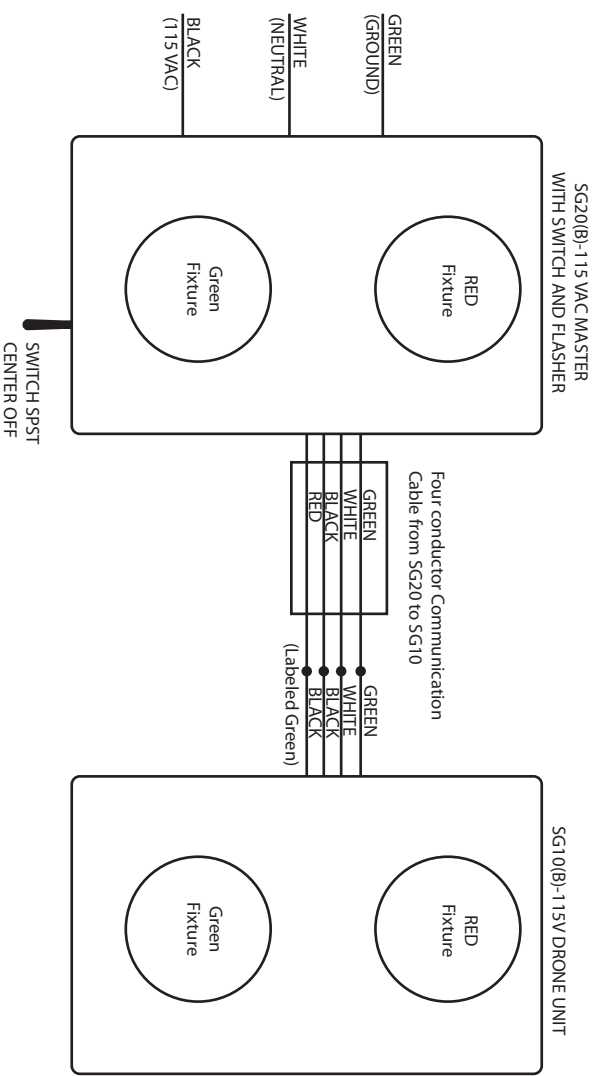
Part#	LED Models
A1612R	Red signal assembly, complete 12, VDC
A1612G	Green signal assembly, complete 12, VDC
A1624R	Red signal assembly, complete 24, VDC
A1624G	Green signal assembly, complete 24, VDC
A16115R	Red signal assembly, complete 120, VDC
A16115G	Green signal assembly, complete 120, VDC

All SG Models			
203014T	Housing with rear panel	813008	Wall Gasket
403005	Switch	163296T	Flasher, Solid state, 12v DC
410403	1/2" EMT Fitting	163297T	Flasher, Solid state, 24v DC
630975	x2 Capacitor (120/240 VAC) (Incandescent Lamp Models Only)	553030	Flasher, Solid state, 120v DC

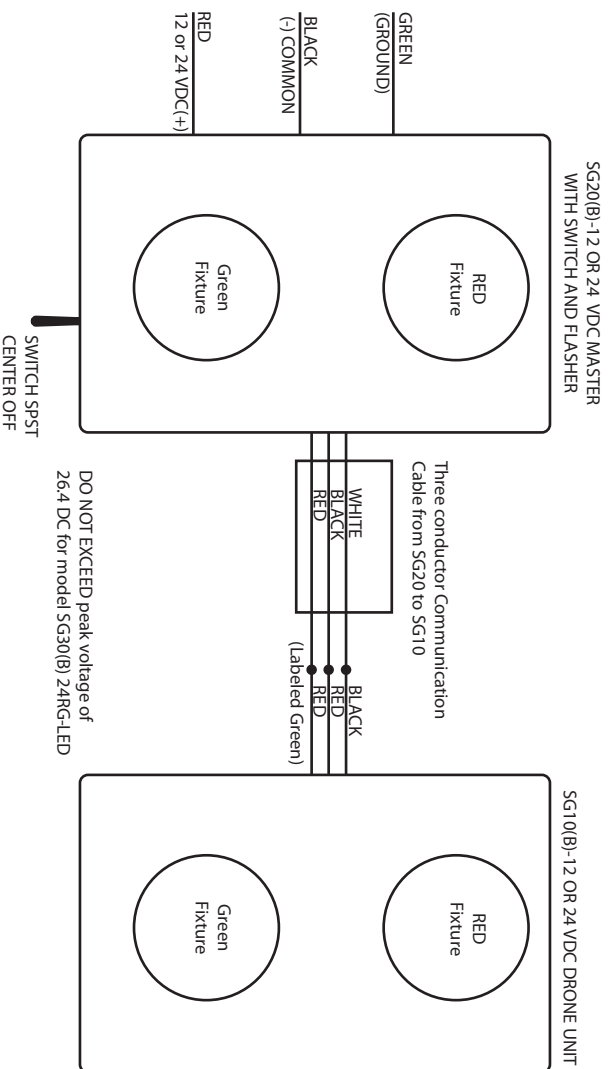


For all incandescent and LED models

SG30(B)-115 VAC CONNECTION DIAGRAM



SG30(B)-12 OR 24 VDC CONNECTION DIAGRAM



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

Key: ● EXTERNAL CONNECTION