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INSTALLATION INSTRUCTIONS

MODEL SG10-RG (INCANDESCENT LAMPS) and MODEL SG10-RG-LED (LED LAMPS) STOP & GO COMMUNICATION LIGHTS



MODEL: SG10 and SG10B (Black Housing)

The SG10 contains no internal logic or flashing circuitry. The lamps operate when the user provides the correct power. The SG10 can be powered independently or in combination with other SG products.

CAUTION:

SG10's with incandescent lamps require a flashing power supply to avoid heat damage to the lens.

All LED models may operate in either steady burn or flashing modes.

INSTALLATION:

- 1) Choose location within convenient distance of your power source that is clearly visible to users. The power connection can be made either through the underside of the housing by removing the plug and using the ½" EMT fitting provided, or through the back plate. The EMT fitting may be employed on the back panel as well.
- 2) Using the housing as a template, drill four (4) holes. If you are mounting to a brick or masonry wall, we recommend sizing the holes to accept ¼" diameter lag-type mounting hardware. For mounting to a surface with access to the rear you may use appropriate fasteners and size the holes accordingly.
- 3) Use the gasket provided when mounting the unit to the wall to seal the back plate.

VOLTAGE REQUIREMENTS:

INCANDESCENT Models: Provide suitable AC or DC voltage: **CAUTION: USE A FLASHER**

LED Models: Provide **ONLY** DC power to 12 and 24-volt units. **Important Note:** The 24 volt 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 a peak of 26.4 VDC.**

Provide 110-120 VAC **ONLY** to 115-volt model.

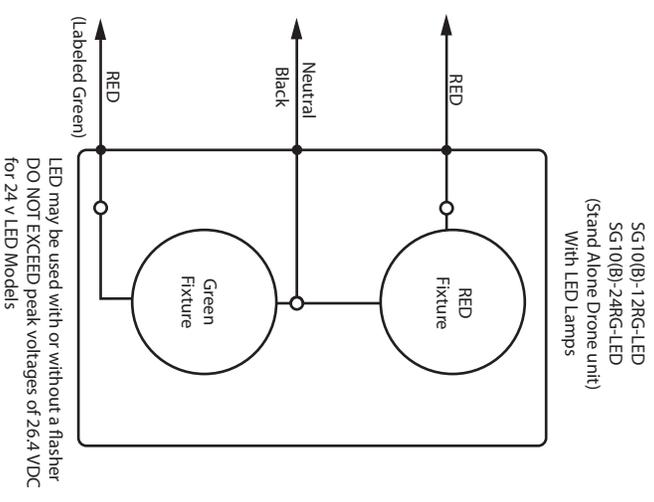
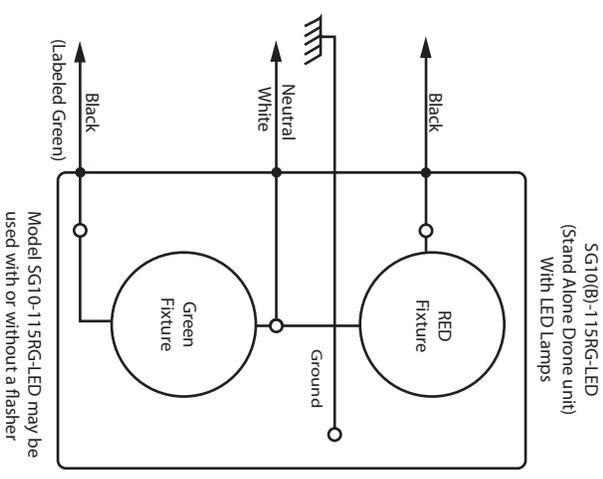
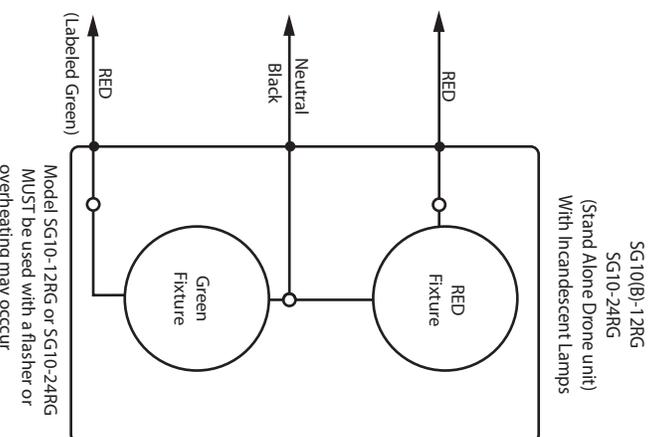
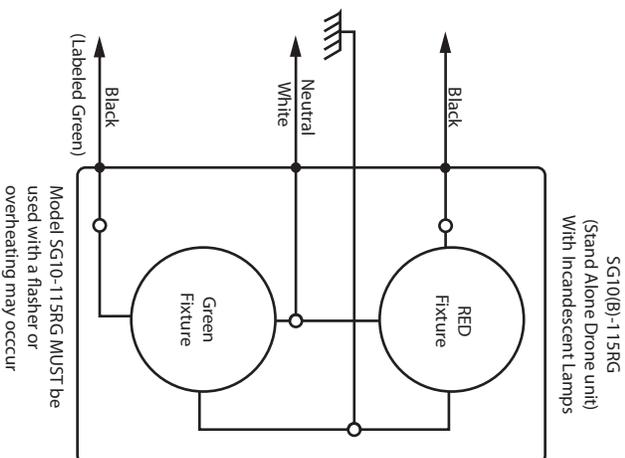
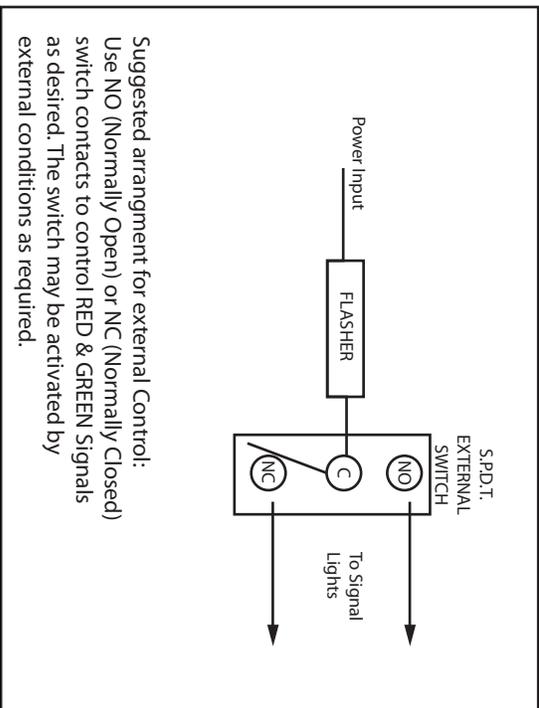
Replacement Parts List

| Part # | Incandescent Lamp Models | Part # | LED Models |
|----------|---------------------------------|----------|---------------------------------------|
| 203011 | Red lens w/ housing | A16115R | Red signal assembly, 115 VAC |
| 203012 | Green lens w/ housing | A16115G | Green signal assembly, 115 VAC |
| 420705 | Lamp, type 25T7, 120 V. | A1612R | Red signal assembly, 12 VDC |
| 420336 | Lamp, type 1156, 12 V | A1612G | Green signal assembly, 12 VDC |
| 423036 | Lamp, type 2023, 24 V | A1624R | Red signal assembly, 24 VDC |
| 533004 | Lamp harness, 120 VAC | A1624G | Green signal assembly, 24 VDC |
| 533003 | Lamp harness, 12/24 VDC | 813008* | Wall Gasket |
| 203014T* | Yellow Housing, with rear panel | 533030* | Flasher, 120 VAC available separately |
| 203107T* | Black Housing, with rear panel | 163295T* | Flasher, 24 VDC-available separately |
| 410403* | ½" EMT fitting | 163296T* | Flasher, 12 VDC-available separately |
| | | | *Applies to all models |



1P23

Customer Supplied



INSTALLATION INSTRUCTIONS



1P23

MODEL SG20-RG (INCANDESCENT LAMPS) and MODEL SG20-RG-LED (LED LAMPS) STOP & GO COMMUNICATION LIGHTS

MODEL: SG20 and SG20B (Black Housing)

The **SG20** is equipped with an internal logic switch and flasher circuitry. The lamps operate when the user provides the correct power. This model is intended for 'stand alone' use and NOT in conjunction with other Tri Lite SG signal light(s).

CAUTION:

SG20 with incandescent lamps require a flashing power supply to avoid heat damage to the lens. DO NOT DISABLE THE FLASHER CIRCUIT.

INSTALLATION:

- 1) Choose a location within convenient distance of your power source that is clearly visible to users. The power connection can be made either through the underside of the housing by removing the plug and using the ½" EMT fitting provided, or through the back plate. The EMT fitting may be employed on the back panel as well.
- 2) Using the housing as a template, drill four (4) holes. If you are mounting to a brick or masonry wall, we recommend sizing the holes to accept ¼" diameter lag-type mounting hardware. For mounting to a surface with access to the rear, you may use appropriate fasteners and size the holes accordingly.
- 3) Use the gasket provided when mounting the unit to the wall to seal the back plate.

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 a peak voltage of 26.4 DC**

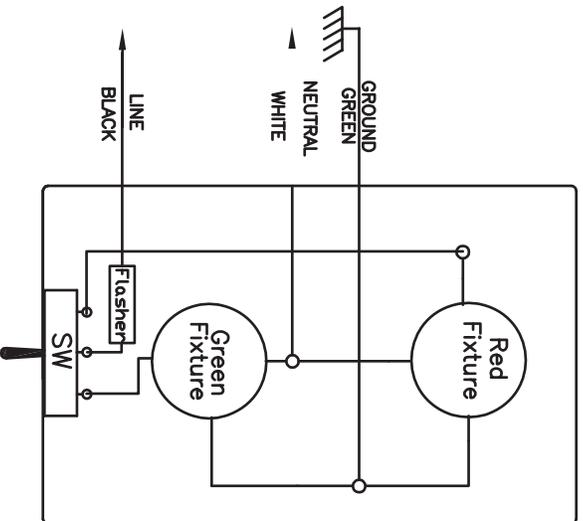
Replacement Parts List

| Part # | Incandescent Lamp Models | Part # | LED Models |
|------------------|--------------------------|---------|--------------------------------|
| 203011 | Red lens w/ housing | A16115R | Red signal assembly, 115 VAC |
| 203012 | Green lens w/ housing | A16115G | Green signal assembly, 115 VAC |
| 420705 | Lamp, type 25T7, 120 V. | A1612R | Red signal assembly, 12 VDC |
| 420336 | Lamp, type 1156, 12 V | A1612G | Green signal assembly, 12 VDC |
| 423036 | Lamp, type 2023, 24 V | A1624R | Red signal assembly, 24 VDC |
| 533004 | Lamp harness, 120 VAC | A1624G | Green signal assembly, 24 VDC |
| 533003 | Lamp harness, 12/24 VDC | 403005 | Switch, SPDT center off |
| All SG 20 Models | | | |
| 203014T | Housing, with rear panel | 813008 | Wall Gasket |
| 410403 | ½" EMT fitting | 353030 | Flasher, 120 VAC |
| 163296T | Flasher, 12 VDC | 163295T | Flasher, 24 VDC |

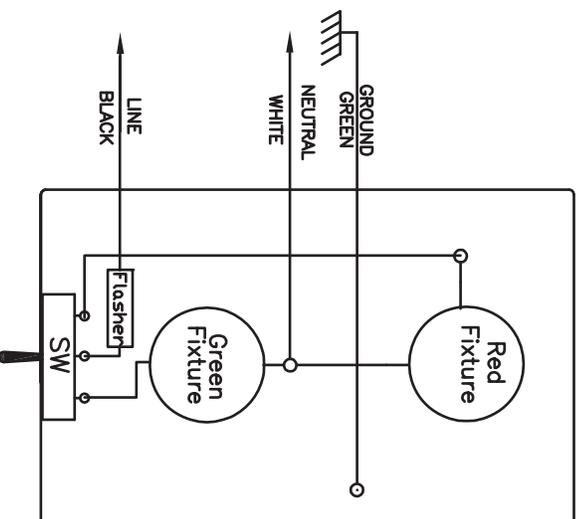


120 VAC MODELS

SG20(B)-115RG
with Incandescent Lamps

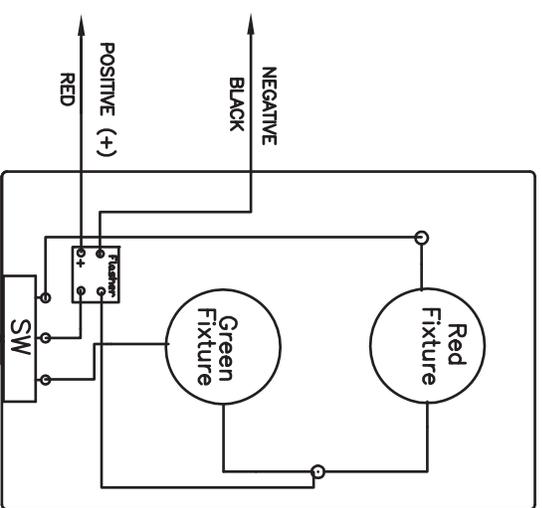


SG20(B)-115RG-LED
with LED Lamps



12 and 24 VDC MODELS

O(B)-12RG
SG20(B)-24RG
Incandescent & L.E.D. Lamps



DO NOT EXCEED peak voltages
of 26.4 VDC for
Model SG20(B)-24RG-LED



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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 |

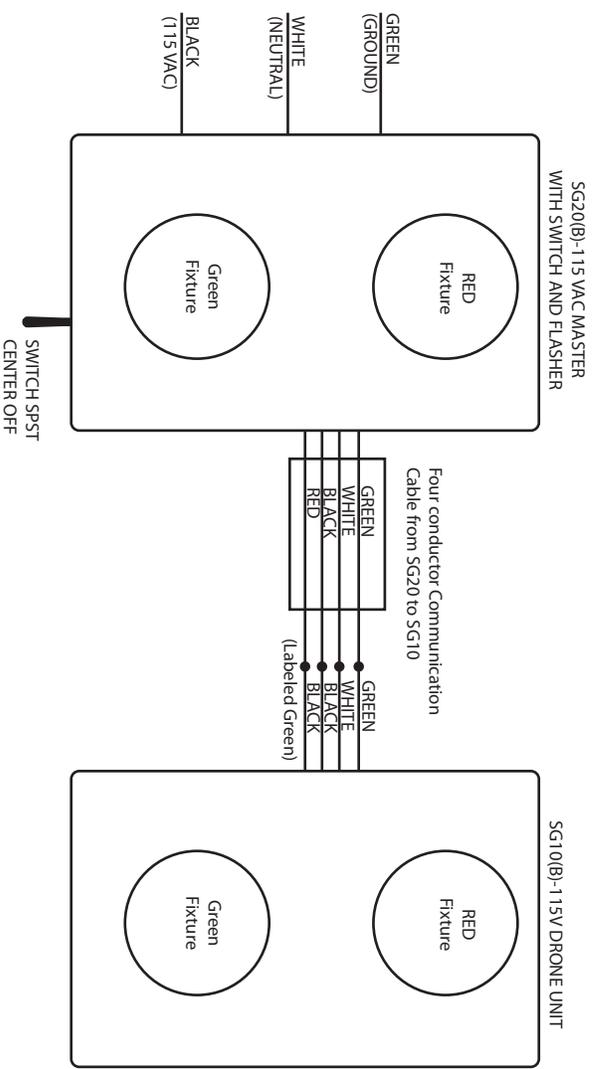
| Part# | LED Models |
|---------|--|
| A1612R | Red signal assembly, complete 12, VDC |
| A1612G | Green signal assembly, complete 12, VDC |
| A1624R | Red signal assembly, complete 24, VDC |
| A1624G | Green signal assembly, complete 24, VDC |
| A16115R | Red signal assembly, complete 120, VDC |
|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

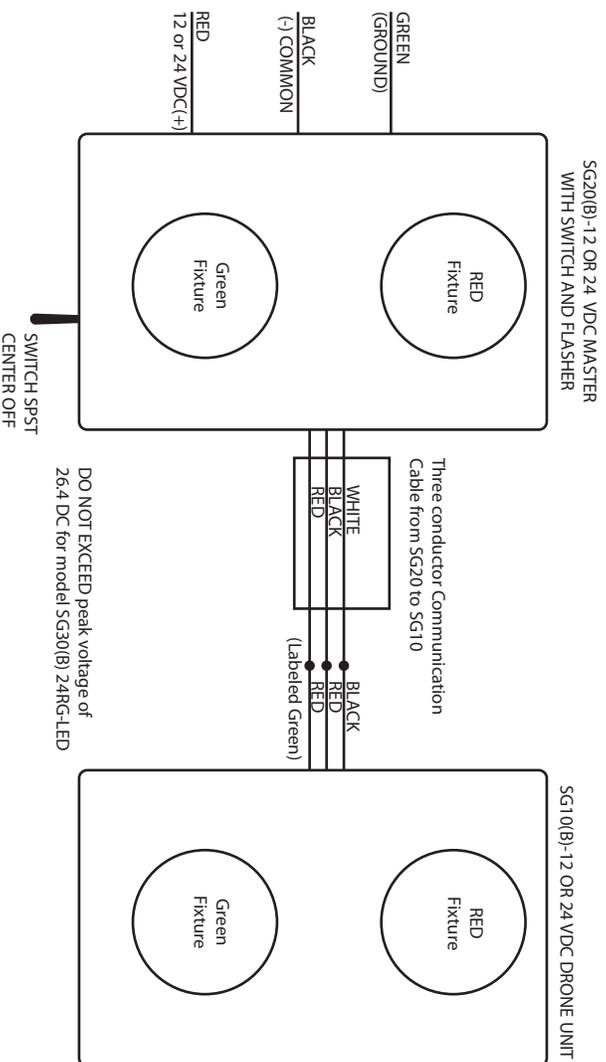


For all incandescent and LED models

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