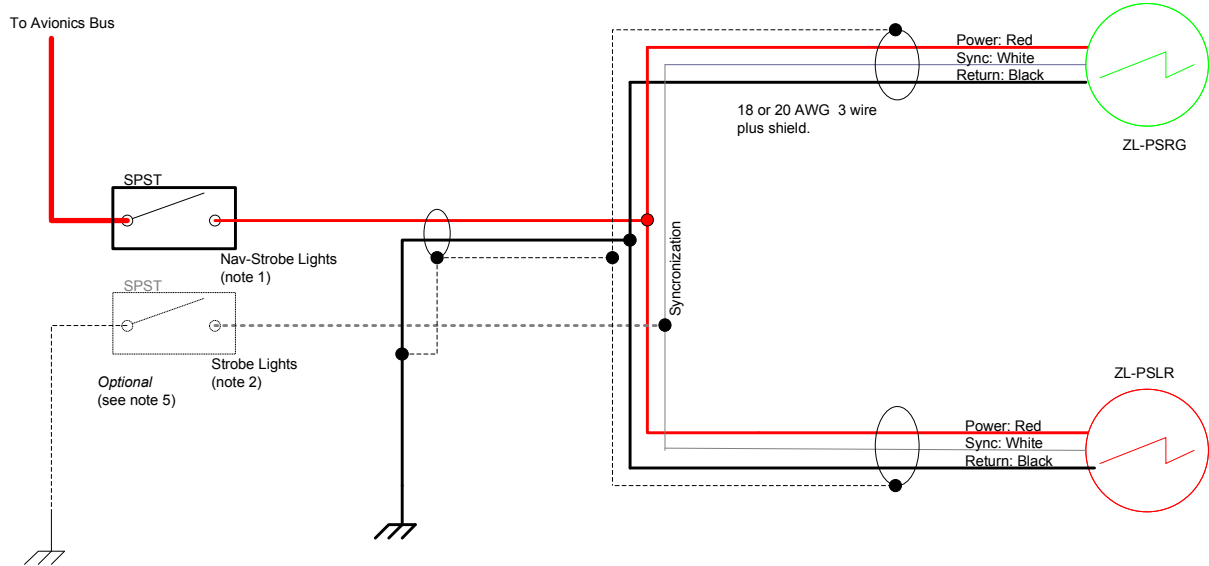
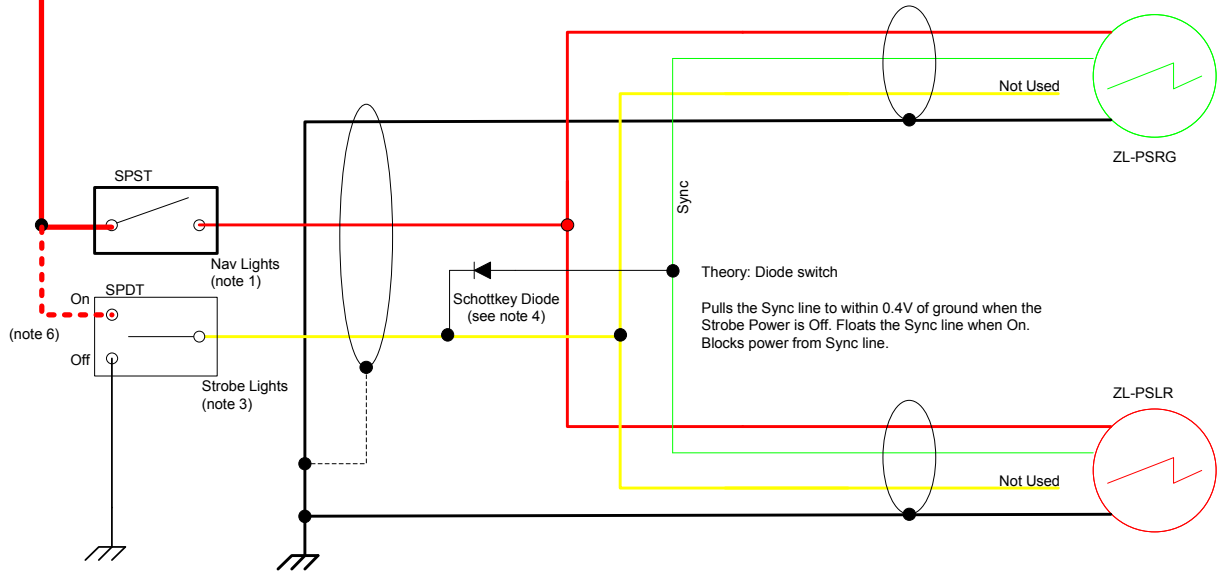


## Method 1: Proper wiring for ZL-PSWT lights.



## Method 2: If or when existing four wire wiring has been installed AND the builder had wished to supply power down two of the wires (universal wiring).



**Note 1:**  
The Nav lights switch (SPST) should be a channel from a ZL-BP6 or other circuit protection device. For ZL-BP8/4 set channel for 5 Amps.

**Note 2:**  
The strobe disable SPST switch can be any current rated mechanical switch as this line only returns less than 2 mA. Strobes are on when switch is open.

**Note 3:**  
The strobe disable SPDT switch must be rated for the strobe current it supplies, if not using our strobes.

**Note 4:**  
SB160 60 V 1A  
DO-41 Case

Wired across  
Sync and Strobe Power



**Note 5:**  
There is **NO** requirement to disable the strobe (anti-collision function) during any operation of one's aircraft. It is up to the Pilot in Command to determine if use of the strobes will cause impairment in his flying abilities, such as might occur when flying through clouds in Night IFR conditions.

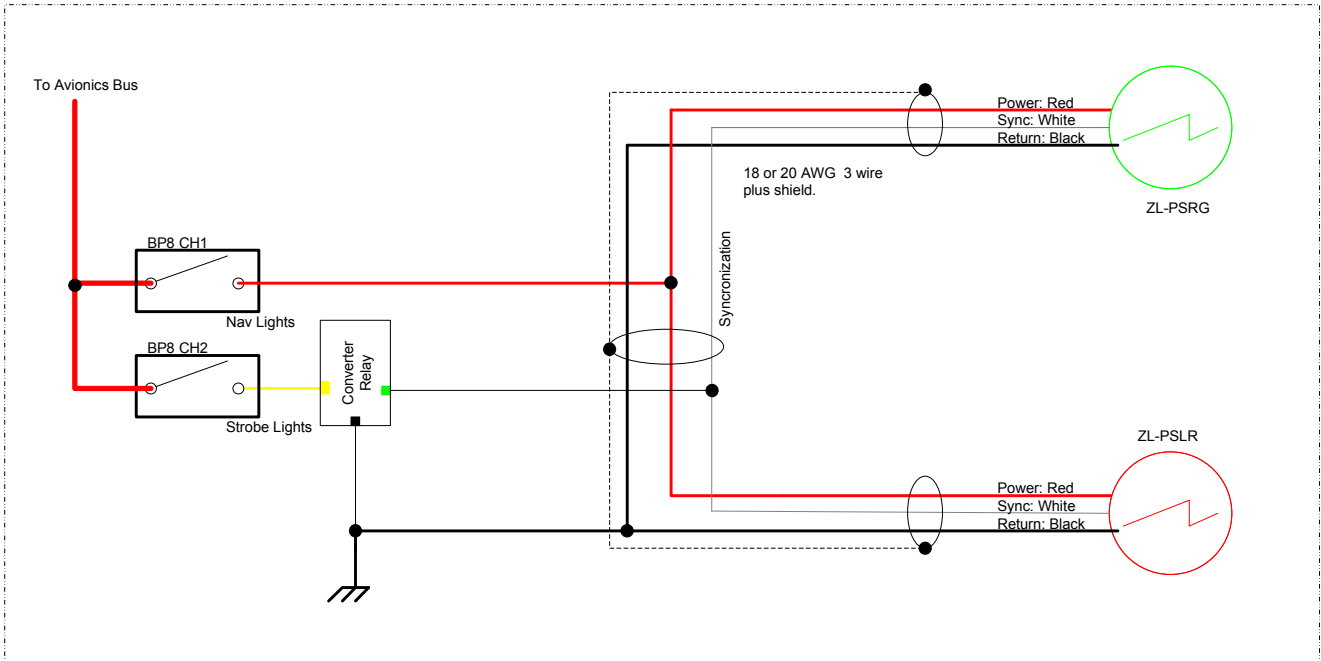
We recommend that you the builder **DO** install a strobe disable switch if your panel space allows. This feature does not consume power and is not a short circuit hazard when using our strobes.

**Note 6:**  
If using our strobes do **NOT** supply power down the strobe power line, and do not make this connection. Otherwise a circuit breaker or fuse is necessary in case the unused yellow wire shorts!

### Method 3: Using a ZL-BP8 or similar power protected channel to control the strobe function.

This requires a converter relay to isolate the strobes Sync line from the power control signal.

This method should be considered **only** if you wish to use a switched power source to control the strobe function **AND** if you have a spare channel on one of our ZL-BP8s and do **NOT** wish to use a low cost mechanical switch for strobe on/off.



### Converter Relay

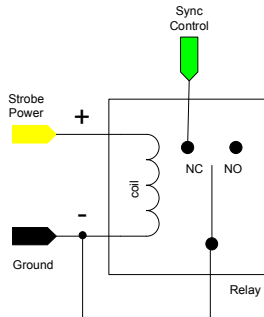
Theory:

The appropriate voltage relay (12V or 24V) with Normally Closed (NC) contacts, shorts the Sync line to ground when power is NOT applied to the relay. Upon power to the relay, the sync line is released to operate normally.

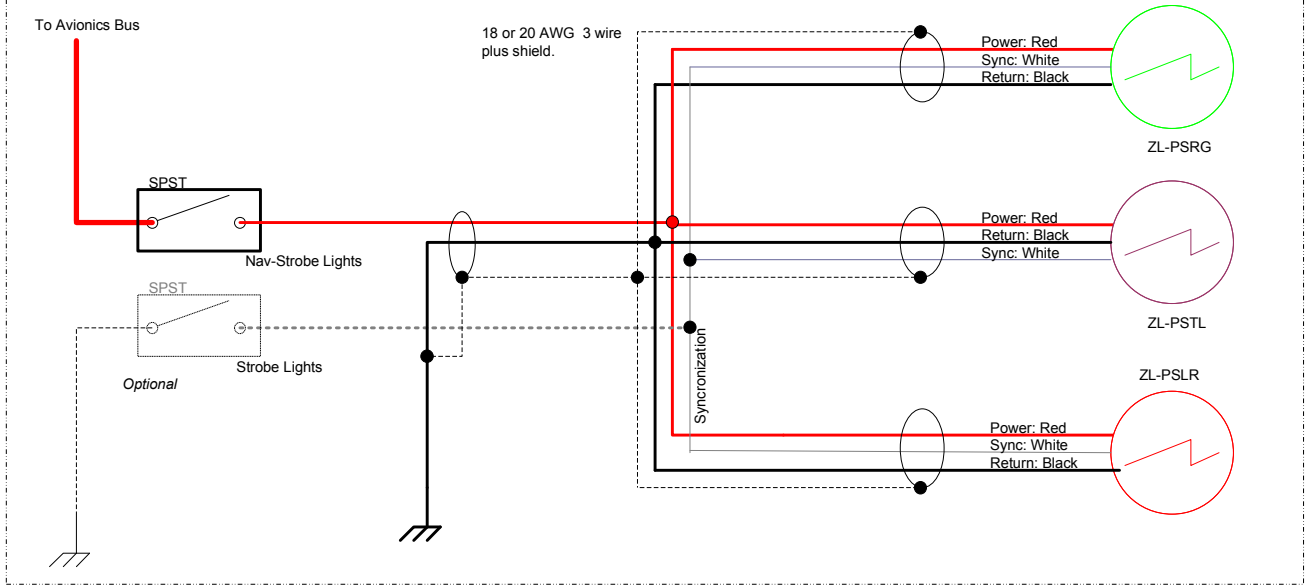
Since the Sync line returns less than 2 mA, a low power signal relay could be used.

The OMRON G5V-1-DC12 (12 V) or G5V-1-DC24 (24V) SPDT relays are readily available and are well suited to use in this application. Can be found at Jameco electronics: Part no. 184461.

Other relays can be found at Radio Shack: Catalog #: 275-249



## Proper wiring for ZL-PSTL lights with wing tip strobes



**Note:**

For wiring purposes the ZL-PSTL is identical to the wing-tip strobes ZL-PSRG / ZL-PSLR.

The wiring cable from the ZL-PSTL can join together with the Left and Right wiring cables coming from the wings AND continue with a single cable to the Avionics Bus.