

WHELEN[®]

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Installation Guide: Aviation model(s) 7114800, 7114801 P/N: 01-0771148-00 01-0771148-01 Flasher/Current Source Ass'y

TSO-C30c
 TYPES I, II & III /
 TSO-C96a
 CLASS II
 APPROVED



The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standards. TSO articles must have separate approval for installation in aircraft. The article may be installed only if performed under 14 CFR part 43 or the applicable airworthiness requirements.

SPECIFICATIONS:

Nominal Operational Voltage:	28 VDC
Current Source Input Current:	
LED Forward Position Light	0.35 AMPS (each)
LED Tail Navigation Light	0.25 AMPS
LED Wing Anti-Collision Light (Pulse@.25 Sec.)	4.0 AMPS
LED Wing Anti-Collision Light (Avg.)	0.75 AMPS
LED Tail Anti-Collision Light (Pulse@.25 Sec.)	3.8 AMPS
LED Tail Anti-Collision Light (Avg.)	0.71 AMPS
Flashrate:	45 ±5 Per. Min.
Total Weight:	0.75 lbs.

EQUIPMENT LIMITATIONS:

An approved forward anti-collision/position light system consists of at least 2 flasher/current source units, each connected to a LED anti-collision lighthouse, model 71184(), and an LED position lighthouse, models 7118201 (green) and 7118202 (red).

An approved tail anti-collision/navigation light system consists of at least one flasher/current source unit, connected to an LED anti-collision and tail navigation lighthouse, model 90354().

Certain types of installations may require additional testing.

CONTINUED AIRWORTHINESS:

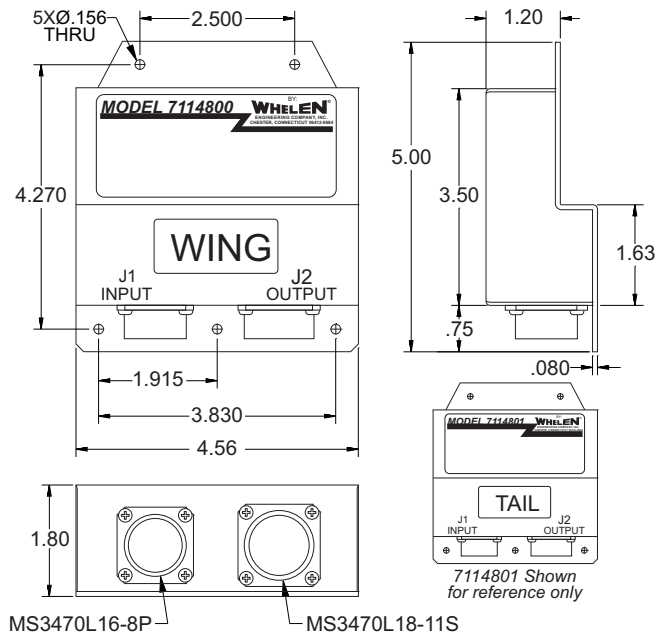
The forward position light is designed with 6 LED's. The forward anti-collision light is designed with 24 LED's. The tail navigation light is designed with 4 LED's. The tail Anti-Collision light is designed with 30 LED's. If any bank of LEDs fail, the lighthouse module should be checked. If the module checks good, replace the flasher.

NOTE: To reduce eye strain use an optical filter such as dark glasses or a blue covering dome during LED inspection.

Note: The anti-collision light will automatically shut-off after 9-10 flashes if a failure is detected.

INSTALLATION PROCEDURES:

- Consider areas or locations designated by the aircraft manufacturer. Check that breakers are properly rated.
- Attach the flasher using the (5) 0.156 dia. mounting holes.
- Connect the anti-collision light inputs, position light inputs, and navigation light inputs according to the charts shown. Connect the cable harnesses from 7118201/7118202, and 71184() to 7114800 and connect the cable harnesses from 9035401 to 7114801. Connections to be in accordance with FAA approved methods. Note: SYNC is a low-power, bi-directional control signal. Connecting to the synchronize signal of any Whelen LED anti-collision assembly to another Whelen anti-collision assembly will cause the lights to flash at the same time. If Synchronization is not necessary, the connection may be left open.
- Check all avionic systems for interference from the installation
- A flight check should be performed by a certified pilot
- Update aircraft records, complete form 337 and obtain FAA field approval for installation, as necessary



Model 7114800			Model 7114801		
J1 SIGNAL		CONTACT	J1 SIGNAL		CONTACT
ANTI-COLL	28V	A	ANTI-COLL	28V	A
ANTI-COLL	GND	B	ANTI-COLL	GND	B
ANTI-COLL	SYNC.	C	ANTI-COLL	SYNC*	C
POSITION	S8V	D	POSITION	S8V	D
POSITION	GND	E	POSITION	GND	E
GROUND REF.	28V	F	NO CONNECTION		F
GROUND REF.	GND	G	NO CONNECTION		G
NO CONNECTION		H	NO CONNECTION		H

Model 7114800			Model 7114801		
J2 SIGNAL		CONTACT	J2 SIGNAL		CONTACT
ANTI-COLL	ANODE	A	ANTI-COLL	ANODE	G
ANTI-COLL	CATH. 1	B	ANTI-COLL	CATH. 1	A
ANTI-COLL	CATH. 2	C	ANTI-COLL	CATH. 2	B
ANTI-COLL	CATH. 3	F	ANTI-COLL	CATH. 3	C
ANTI-COLL	CATH. 4	G	ANTI-COLL	CATH. 4	D
POSITION 1	ANODE	D	ANTI-COLL	CATH. 5	E
POSITION 1	CATH.	E	POSITION	ANODE	H
POSITION 2	ANODE	J	POSITION	CATH.	J
POSITION 2	CATH.	K	NO CONNECTION		F
GROUND REF.	28V	H	NO CONNECTION		K
GROUND REF.	GND	L	NO CONNECTION		L

*On revision H or higher, the SYNC is a low power, output control signal.