



WHELEN AEROSPACE TECHNOLOGIES

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**Installation Guide/ICA:
 Model 9035401
 P/N 01-0790354-01
 LED Tail Navigation and
 Anti-Collision Light Assembly**

TSO-C30c TYPE III APPROVED
 TSO-C96a CLASS II APPROVED

The conditions and tests required for TSO approval of this article are minimum performance standards. Those installing this article either on or within a specific type or class of aircraft must determine that the aircraft installation conditions are within the TSO standards which include any accepted integrated non-TSO functions. TSO articles and any accepted integrated non-TSO function(s) must have separate approval for installation in an aircraft. The article may be installed only according to 14 CFR part 43 or the applicable airworthiness requirements.

SPECIFICATIONS:

Nominal Operational Voltage:..... 28 VDC
Weight..... 1.0 lbs.
With 7114801 Flasher:
Anti-Collision
 Average Current 0.71 amps
 Pulse Current: 3.8 amps@25 seconds
 Flashrate 45± 5 per min.
Navigation
 Current..... 0.25 amps

EQUIPMENT LIMITATIONS: An approved lighting system consists of three lights, one located on the tail and one located on each wingtip. The baseplate must be mounted parallel to the vertical and horizontal centerlines of the aircraft to project the patterns properly.

Certain types of installations may require additional testing.

AIRWORTHINESS LIMITATIONS: The Airworthiness Limitations section is FAA approved and specifies inspections and other maintenance required under §43.16 and §91.403 of the Federal Aviation Regulations, unless an alternative program has been approved.

No airworthiness limitations are associated with the installation of the light assembly.

CONTINUED AIRWORTHINESS: The tail navigation light is designed with 4 LEDs. The anti-collision light is designed with 30 LEDs. If any one LED fails, the unit must be repaired or replaced. NOTE: To reduce eye strain, use an optical filter such as dark glasses or a blue covering dome during LED inspection. Inspect the lens. Replace if there is excessive scratching, pitting, discoloration or cracking. For additional lens maintenance detail, see SAE ARP5637.

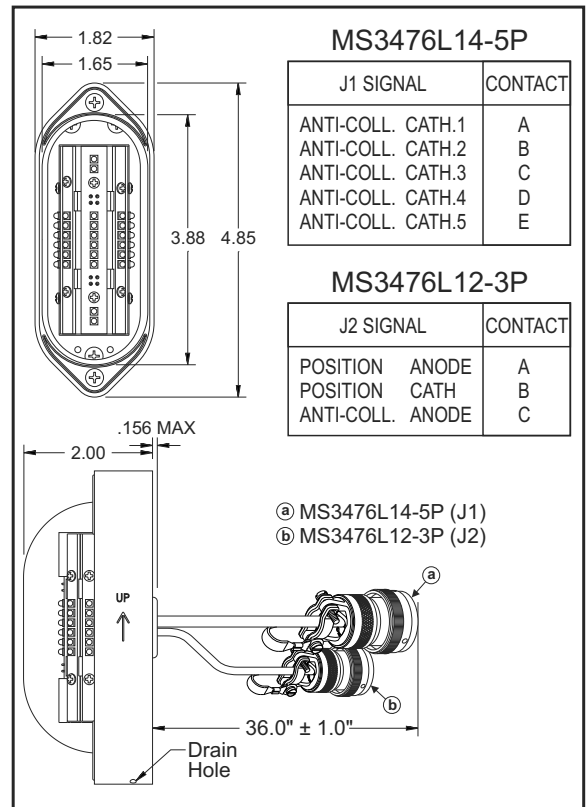
Note: The anti-collision light will automatically shut-off after 9-10 flashes if a failure is detected.

PERIODIC INSPECTIONS: An annual inspection shall be performed unless the OEM specifies a shorter interval.

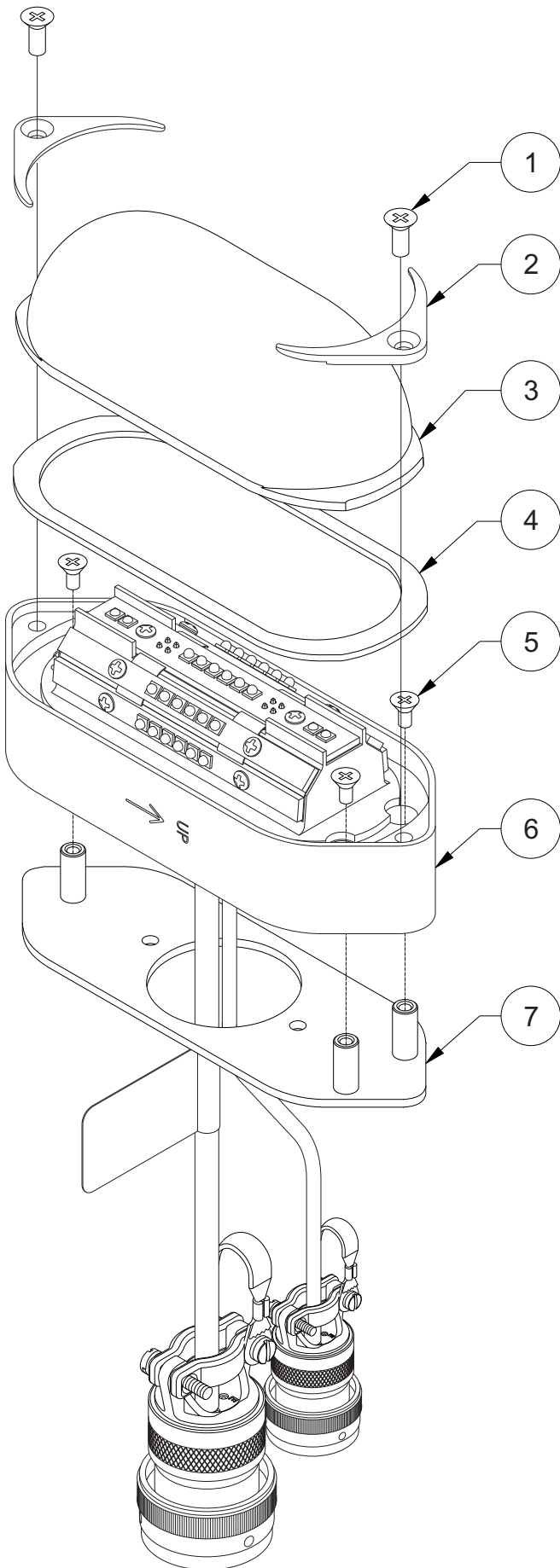
INSTALLATION PROCEDURES:

1. Connect the anti-collision light inputs and the navigation light inputs according to the chart shown. Connections to be in accordance with FAA approved methods.
2. Remove 2 screws to remove retainers. Carefully remove lens. Remove 3 screws to remove mounting plate. **CAUTION:** Do not touch LEDs with either fingers or sharp objects. This could soil and/or damage the LED, effecting the optical performance of the light.

3. Using 2, #4 panhead screws, install the mounting plate to the aircraft. Attach the light assembly using the 3 screws, insuring that all leads are clear of any obstructions, and ty-wrap as required.
4. Reinstall lens and secure using retainers and screws.
5. Check all avionics systems for interference from this installation.
6. A flight check should be performed by a properly certified pilot.
7. When necessary, waterproof the light base to aircraft. Apply single part silicone (RTV) or equivalent around any open area where water could get in. Do not cover the drain holes.
8. If required, update aircraft records utilizing FAA Field Approval (Form 337) or equivalent.



Aviation



QTY	ITEM	PART NUMBER	DESCRIPTION
*		01-0790354-01	ASSY, TAIL/AC MODEL 9035401
2	1	14-0050508-28	SCREW, 6-32 X 3/8 PFHMS, 82DEG (MS51959-28)
2	2	19-150936-000	RETAINER, LENS
1	3	68-3971137A30	LENS, CLEAR
1	4	38-0250938-01	GASKET, LENS
3	5	14-062116-05M	SCREW, 6-32 X 5/16 P100FH CSINK w/NYLON PATCH
1	6		ASSY, MODEL 9035401
1	7	06-171252-100	PLATE, MOUNTING MODEL 90354

