



AEROTECH LED BEACON

EN



Instructions, Specification and Warranty Details

P/No. AERO-85600X to
AERO-85612X



**X signifies the color eg.
AERO-85600A = Amber*

WARNING



Read carefully and understand all instructions before operating.

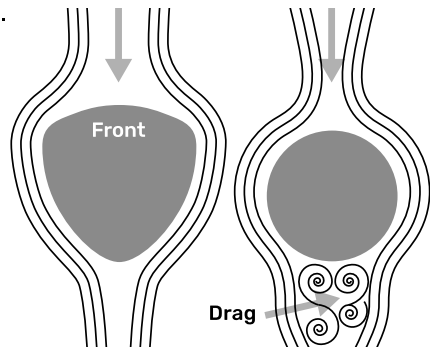
- It is not recommended to use magnetically mounted warning devices on the outside of a vehicle in motion. Usage is at the sole risk and responsibility of the user.
- Risk of electrical shock; do not use in an environment with gas, combustible or explosive materials, or hot objects.
- Do not open, repair or modify.
- Use only under the recommended voltage and frequency requirements.
- Do not look directly at the light, as this will result in dazzling.
- Minimum distance from lighted objects 0.1m.
- The specification in this manual is based on standard lab testing, different environments may influence the data.
- **California Proposition 65 Warning:** This product contains chemicals known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information, please visit www.P65Warnings.ca.gov

FEATURES

- Aerodynamic shape for reduced wind noise in high speed applications.
- Ambient light sensor with optional low and high power modes.
- 10–33V multi-volt DC input to suit most applications.
- Allows synchronisation of up to 6 units (Flange mount only).
- Virtually unbreakable polycarbonate lens and base.
- SAE and ECE approved.

MOUNTING ORIENTATION

- The strobe is designed in an aerodynamic shape.
- The most aerodynamic orientation is to face the flat part forwards.
- Facing the point forwards is also an acceptable way to mount.
- The shape also provides increased horizontal illumination on the sides, again facing this forward is the best in most applications.
- However if fitted to the back of a vehicle facing the flat side backwards can provide increased visibility.



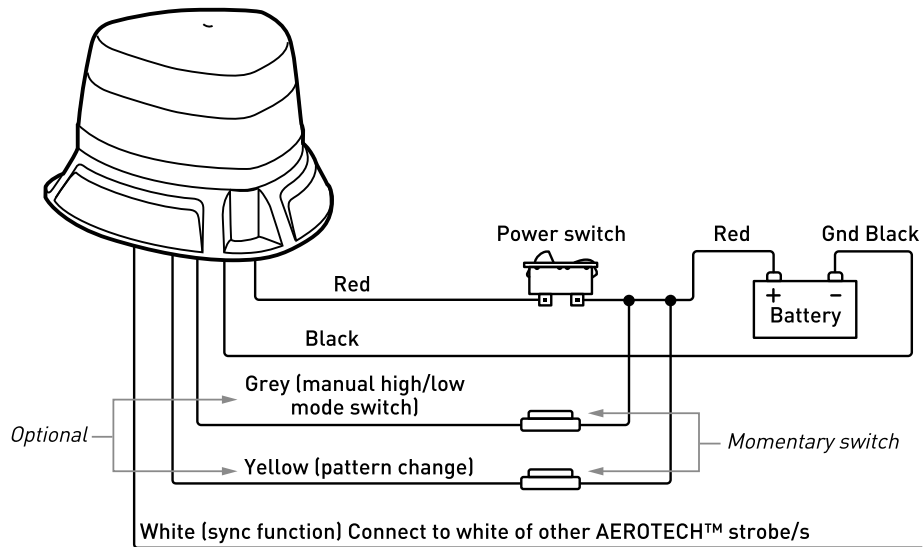
WIRING

- RED:** To 10–33V DC(+)
- BLACK:** To chassis / ground (-)
- YELLOW:** Flash pattern selection (+)
- WHITE:** Synchronization. Connect together (3 bolt mount only)
- GREY:** Sensor Wire - Connect to constant DC Power to activate the light sensor, momentary connection will change between high and low power. If this wire is not connected the strobe will only function in high power

INSTALLATION – FLANGE BASE

- 1 Prepare a suitable area on the vehicle's surface by wiping it clean to prevent scratching.
- 2 Drill a 10mm ($\frac{3}{8}$ ") hole into the surface for the wires to exit through for connection to a power source. Alternatively, the wires can be directed through the side of lamp's base for connection to a power source.
- 3 Choose mounting orientation – ensure the product is square.
See page 2 for more information.
- 4 Using the supplied lamp gasket as a template, drill three 4.7mm ($\frac{6}{16}$ ") holes for fitment and secure to the surface using the supplied mounting bolts. A mounting pad is included and can be installed between the surface and the lamp.
- 5 Route the wires as planned in step 2. Connect the red (+) wire to 10–33V DC and the black (-) wire to ground. Test.

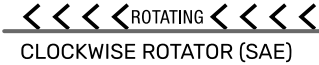
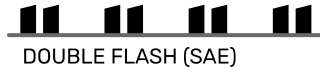
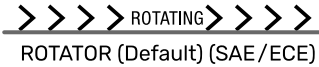
WIRING DIAGRAM



Note: To ensure that the light sensor works correctly don't cover the top of the strobe otherwise the sensor will register as night mode. Then you will need to connect the override wire (Grey) to a momentary switch to allow them to switch to "High/Low power mode".

FLASH PATTERNS

The unit comes with 4 user-selectable flash patterns plus steady on



*AERO-85600A to AERO-85604A

TECHNICAL SPECIFICATIONS

	AERO-85600A	AERO-85606A	AERO-85612A
LED	9 x 5W	18 x 5W	36 x 1W
Housing Material	Polycarbonate Base		
Lens Material	Polycarbonate		
Mounting	3-Bolt Flange		
Voltage	10–33V DC		
Amperage @ 12V	0.6A Rotate/1.4A Flash	1A Rotate/1.6A Flash	
Wattage	45W	90W	36W
Operating Temp.	-22°F to +140°F (-30°C to +60°C)		
Weight	330g / 0.73lbs	145g / 0.91lbs	600g / 1.3lbs
Width	134mm / 5.28"		
Height	68mm / 2.68"	90mm / 3.54"	130mm / 5.12"
Depth	135mm / 5.31"		
PCD	Ø130mm		
Shock/Vibration	ISO 16750-3		
Approvals	CE, ROHS, REACH		
IP Rating	IP67		
ECE Approval	ECE R65 TA1	ECE R65 TA2	
EMC Compliance	CISPR25 Class 3, ECE R10		
SAE Compliance	J845 Class 1, W3-1		

FITTING

When fitting strobe to existing mounting holes, use the adaptor plate (not included).

- 1 Work out which orientation is required (point forward or flat forward).
- 2 Install the mounting plate in the slots around the edge ensuring the bolt holes for mounting the strobe are in the correct orientation.
- 3 Screw the beacon to the adaptor plate. The cable can go through the bottom or the cable exit on the strobe.



CHANGING BASES

- 1 Unscrew the 3 screws underneath the product.
- 2 Remove the existing base (it may be tight especially 3 bolt mount).
- 3 Disconnect the harness connector.
- 4 Connect the harness with the desired base.
- 5 Be careful with where the connector is fitted.
- 6 Screw the bases together.



VACUUM MAGNETIC BASE

- 1 To connect the magnetic base remove the flying lead connector and reconnect to the 3 metre spiral cord.
- 2 Fit the magnetic base with the 3 supplied screws.
- 3 When mounting vacuum magnetic base to the roof ensure a dry flat surface and that the vacuum is correctly engaged.

Note: Ensure the cable exits match on the strobe and the magnetic attachment.

PATTERN CHANGE

3 Bolt mount

- 1** Touch the yellow wire to positive power for less than 1 second to move to the next pattern.
- 2** If the operator desires to change the pattern after installation this can be achieved by adding an extra switch or using a 3 position switch.
- 3** To synchronize patterns connect the white wires of each strobe together.

- * To change the pattern on the flexible pole and DIN pole mount press the button underneath the strobe.
- * To change the pattern of the magnetic version press the momentary button on the cigarette plug to cycle through the patterns.



AMBIENT LIGHT SENSOR FUNCTION

The ambient light sensor dims the strobe to 60% of full output. This can be overridden if a momentary switch is wired to the grey wire (+ve).

Switch one time for low power, touch again for high power. Once the wire is used the sensor is disabled. To reactivate the sensor turn the beacon off and on again.

See full wiring diagram on page 3.

PARTS AVAILABLE

AERO-85393	Adaptor Plate T/S Aerotech Small
AERO-85396	Single Bolt Base T/S Aerotech
AERO-85397	Fixed DIN Mount T/S Aerotech
AERO-85398	Flexi DIN Mount T/S Aerotech
AERO-85399	Magnetic Mount T/S Aerotech
P-85491	Pole Mount Connector

OUTPUT

Aerotech™ strobes far exceed SAE Class 1 for both rotate and flash. To be SAE approved a product must have a minimum value across the 5 measured zones (-5°, -2.5°, 0°, +2.5°, +5°) of 752 Candela.

AeroTech™ outputs are as follows:

AERO-85600A:

Rotate: 2,838 cd (3.7 x brighter than SAE minimum)

Flash: 2,836 cd (3.7 x brighter than SAE minimum)

AERO-85606A:

Rotate: 5,053 (6.7 x brighter than SAE minimum)

Flash: 4,637 cd (6.2 x brighter than SAE minimum)

AERO-85612A:

Rotate: 4,941 cd (6.6 x brighter than SAE minimum)

Flash: 4,474 cd (6.0 x brighter than SAE minimum)

WARRANTY TERMS & CONDITIONS:

1. Warranty items will be replaced or repaired to working condition and returned without cosmetic alterations.
2. A proof of purchase is required to validate all warranty claims. The warranty period is valid starting from the original date of purchase.
3. All products must have been purchased through a Vision X Authorized Dealer/Reseller to be eligible for warranty.
4. Damage resulting from any improper installation, accident, abuse, neglect or normal wear are not covered under warranty.
5. Any product used in mining applications is warranted for one year only.
6. Actions which void the warranty include:
 - a. Opening of the lighting fixture
 - b. Cutting any connectors or cords
 - c. Broken Glass
 - d. Damage caused by physical abuse
 - e. Lights operated in environments outside their stated specifications*
7. All customer warranties should be handled through the Dealer/Reseller the product was originally purchased from. The customer is responsible for delivery to the Vision X Returns in Auburn, Washington.
8. If a product is deemed not covered under warranty, customer will be responsible for the return shipping charges.
9. Items not covered under warranty can be repaired at the customer's expense for parts and labor, at the discretion of Vision X Lighting, who will provide an estimated repair cost before proceeding with the repair.

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