

# WHELEN<sup>®</sup>

ENGINEERING COMPANY INC.

Route 145, Winthrop Road,  
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## Installation Guide: ULF22 2-Outlet LED Flasher

Internet: [www.whelen.com](http://www.whelen.com)  
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Canadian Sales e-mail: [autocan@whelen.com](mailto:autocan@whelen.com)  
Customer Service e-mail: [custserv@whelen.com](mailto:custserv@whelen.com)

This product is designed for use with 12 volt LED lighthead. **Do not exceed 5 Amps total current draw per channel.**

**Mounting** - Position the flasher unit onto its proposed mounting surface. Do not select a location where it will be exposed to water or extreme heat. Secure the unit using the double-sided tape provided.

**Wiring** - As seen from the rear of the 8-position input connector, the wire color/functions are as shown below.

1. Extend the RED wire to a SP/ST switch. From this switch, extend a wire to +12VDC. Fuse this wire @ 7.5 Amps.

**All customer supplied wires that connect to the Positive (+) battery terminal must be sized to supply at least 125% of the maximum operating current and fused "at the battery" to carry that load.**

2. Extend the BLK wire to chassis ground.
3. Extend the WHT/VIO wire to a user controlled momentary switch. From this switch extend a wire to +12VDC. Fuse this wire @ 1 Amp.
4. Extend the VIO wire to a user controlled Single Pole / Single Throw switch. From this switch extend a wire to +12VDC. Fuse this wire @ 1 Amp.

See diagram for output wiring information.

**Low Power Operation** - Apply +12 VDC to the VIO wire for low power. Remove the voltage from the VIO wire to restore high power operation.

**Scan-Lock™ Pattern Selection** - To advance the pattern, press the momentary switch (step 3) for less than 1 second and release. Hold this switch for more than 1 second to cycle backwards through the patterns.

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Form No.13928B (071806)

**To reset to the Factory Default Pattern** - Turn off power to the flasher. While holding down the momentary switch, turn the flasher on. Continue to hold the switch for 5 seconds.

**Patterns\*** -

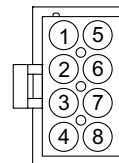
- |                     |                     |                     |
|---------------------|---------------------|---------------------|
| 1. SignalAlert™ (A) | 2. SignalAlert™ (B) | 3. SignalAlert™ (C) |
| 4. CometFlash® (A)  | 5. CometFlash® (B)  | 6. CometFlash® (C)  |
| 7. DoubleFlash (A)  | 8. DoubleFlash (B)  | 9. DoubleFlash (C)  |
| 10. SingleFlash (A) | 11. SingleFlash (B) | 12. SingleFlash (C) |
| 13. SteadyFlash**   | 14. Steady*         |                     |

\* = after July 2006, patterns 1, 2 & 3 are (C), (A) & (B) respectively

\*\* = This pattern is not offered in a Low Power state of operation.

**A = Output 1 Alternates with Output 2**  
**B = Output 1 is Simultaneous with Output 2**  
**C = 3 Cycles of "A" followed by 3 Cycles of "B"**

Rear View  
of Connector



Connector  
Pin-Outs

- ① RED - To +12VDC
- ② BRN - Output 1 (POS)
- ③ ORN - Output 2 (POS)
- ④ WHT/BRN - Output 1 (NEG)
- ⑤ BLK - To Chassis Ground
- ⑥ WHT/VIO - Scan-Lock™ (see text)
- ⑦ VIO - Low Power (see text)
- ⑧ WHT/ORN - Output 2 (NEG)

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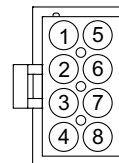
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- ⑥ WHT/VIO - Scan-Lock™ (see text)
- ⑦ VIO - Low Power (see text)
- ⑧ WHT/ORN - Output 2 (NEG)