



Marketing Update

FEDERAL SIGNAL CORPORATION

EMERGENCY PRODUCTS

Date: 6/26/06
From: Mark Sepko, Product Manager

Update: 211
Subject: QuadraFlare LED Warning Lights



QuadraFlare™ LED warning lights now available

Federal Signal has broken the mold of conventional product development. Our new QuadraFlare™ LED warning lights feature the latest in SOLARIS™ LED Reflector Technology.

The shape of the QuadraFlare may be familiar to you, but the performance of SOLARIS separates these perimeter lights from the competition.

Key features include:

- Advanced SOLARIS Technology in an industry standard 6 inch by 4 inch shape
- Available with red, amber, blue, green, or white LEDs
- Available with built-in flasher featuring 16 selectable patterns
- Five-year warranty on LED components
- Optional chrome-plated trim bezel available
- Stop/Tail, Turn, Turn Arrow, and Back-up light models also available
- NFPA 1901 and GSA KKK-E compliant models available



Dimensions:

Without trim bezel: (L: 6.6 in) x (H: 4.2 in) x (D: 1.5 in)

With trim bezel/gasket: (L: 8.3 in) x (H: 5.2 in) x (D: 1.9 in)

Shipping weight: 1.0 lb

Input voltage: 12.8 VDC

Operating temperature: -40C to +65C

| | |
|--|----------------------|
| Current Draw: Red and Amber warning lights | 1.5 amps "steady-on" |
| Blue, Green, White warning lights | 2.0 amps "steady-on" |

If you have any questions regarding this product, please contact your local Federal Signal Representative.



QuadraFlare™ LED warning lights now available (*continued*)

| Model | Description | List Price |
|---|---|------------|
| QuadraFlare with Color Lens | | |
| QL64X-R | Warning light, 6x4, red LED, red lens | \$175.00 |
| QL64X-B | Warning light, 6x4, blue LED, blue lens | \$175.00 |
| QL64X-A | Warning light, 6x4, amber LED, amber lens | \$175.00 |
| QL64X-C | Warning light, 6x4, white LED, clear lens | \$209.00 |
| QL64X-G | Warning light, 6x4, green LED, green lens | \$220.00 |
| QuadraFlare with Color Lens and built-in flasher | | |
| QL64XF-R | Warning light, 6x4, red LED, red lens, built-in flasher | \$175.00 |
| QL64XF-B | Warning light, 6x4, blue LED, blue lens, built-in flasher | \$175.00 |
| QL64XF-A | Warning light, 6x4, amber LED, amber lens, built-in flasher | \$175.00 |
| QL64XF-C | Warning light, 6x4, white LED, clear lens, built-in flasher | \$209.00 |
| QL64XF-G | Warning light, 6x4, green LED, green lens, built-in flasher | \$220.00 |
| QuadraFlare with Clear Lens | | |
| QL64XC-R | Warning light, 6x4, red LED, clear lens | \$175.00 |
| QL64XC-B | Warning light, 6x4, blue LED, clear lens | \$175.00 |
| QL64XC-A | Warning light, 6x4, amber LED, clear lens | \$175.00 |
| QL64XC-G | Warning light, 6x4, green LED, clear lens | \$220.00 |
| QuadraFlare with Clear Lens and built-in flasher | | |
| QL64XFC-R | Warning light, 6x4, red LED, clear lens, built-in flasher | \$175.00 |
| QL64XFC-B | Warning light, 6x4, blue LED, clear lens, built-in flasher | \$175.00 |
| QL64XFC-A | Warning light, 6x4, amber LED, clear lens, built-in flasher | \$175.00 |
| QL64XFC-G | Warning light, 6x4, green LED, clear lens, built-in flasher | \$220.00 |
| QuadraFlare BTT & Back-up lights | | |
| QL64Z-BTT | Brake-Tail-Turn, red LED, red lens | \$165.00 |
| QL64Z-ARROW | Turn Arrow, amber LED, amber lens | \$120.00 |
| QL64Z-TURN | Turn Light, amber LED, amber lens | \$165.00 |
| QL64Z-BACKUP | Back-Up light, white LED, clear lens | \$198.00 |
| Bezel Mounting Kit | | |
| QL64MC | Chrome bezel and mounting gasket | \$12.50 |
| IntelliFlash Flashers (for use with QuadraFlare that do not have a built-in flasher) | | |
| 650205 | Flasher, (2) 10 amp channels, (10) flash patterns, high-side switching | \$97.50 |
| 650302 | Flasher, AF16, Fire/EMS applications, KKK-E compliant, zoning capable 16 outputs, 40 amps total capacity, twenty-nine flash patterns | \$244.00 |

*All Pricing in US Dollars

LOWER LEVEL PACKAGES - ALL TRUCKS - LED

ZONE A - Front Zone

Choose one option from either Surface Mount or Recess/Flush Mount:

| Model | Description | Total amps |
|--|--|------------|
| Surface Mount lights | | |
| <input type="checkbox"/> Two QL64XF-R | QuadraFlare LED lightheads, Red | 3.0 amps |
| <input type="checkbox"/> Two QL64XF-B | QuadraFlare LED lightheads, Blue | 4.0 amps |
| <input type="checkbox"/> Two MOD1F-R | ModLED single module lightheads, Red | 0.7 amps |
| <input type="checkbox"/> Two MOD2F-RR | ModLED double module lightheads, Red/Red | 1.3 amps |
| <input type="checkbox"/> Two MOD2F-RB | ModLED double module lightheads, Red/Blue | 1.3 amps |
| <input type="checkbox"/> Two MOD2F-RG | ModLED double module lightheads, Red/Green | 1.3 amps |
| Recess/Flush Mount lights | | |
| <input type="checkbox"/> Two GL5-R | FireRay LED lightheads, Red | 2.0 amps |
| <input type="checkbox"/> One GL5-R & One GL5-B | FireRay LED lightheads, Red and Blue | 2.0 amps |
| <input type="checkbox"/> Two MOD1X-R | ModLED single module lightheads, Red | 0.7 amps |
| <input type="checkbox"/> Two MOD2X-RR | ModLED double module lightheads, Red/Red | 1.3 amps |
| <input type="checkbox"/> Two MOD2X-RB | ModLED double module lightheads, Red/Blue | 1.3 amps |
| <input type="checkbox"/> Two MOD2X-RG | ModLED double module lightheads, Red/Green | 1.3 amps |



QL64XF-R



MOD2F



MOD1F

ZONE B - Side Zone

Choose one option from either Surface Mount or Recess/Flush Mount:

| Model | Description | Total amps |
|--|--|------------|
| Surface Mount lights | | |
| <input type="checkbox"/> Two QL64XF-R | QuadraFlare LED lightheads, Red | 3.0 amps |
| <input type="checkbox"/> Two QL64XF-B | QuadraFlare LED lightheads, Blue | 4.0 amps |
| <input type="checkbox"/> One QL64XF-R & One QL64XF-A | QuadraFlare LED lightheads, Red and Amber | 3.0 amps |
| <input type="checkbox"/> Two MOD1F-R | ModLED single module lightheads, Red | 0.7 amps |
| <input type="checkbox"/> Two MOD2F-RR | ModLED double module lightheads, Red/Red | 1.3 amps |
| <input type="checkbox"/> Two MOD2F-RB | ModLED double module lightheads, Red/Blue | 1.3 amps |
| <input type="checkbox"/> Two MOD2F-RA | ModLED double module lightheads, Red/Amber | 1.3 amps |
| Recess/Flush Mount lights | | |
| <input type="checkbox"/> Two GL5-R | FireRay LED lightheads, Red | 2.0 amps |
| <input type="checkbox"/> One GL5-R & One GL5-B | FireRay LED lightheads, Red and Blue | 2.0 amps |
| <input type="checkbox"/> Three GL5-B | FireRay LED lightheads, Blue | 3.0 amps |
| <input type="checkbox"/> Two MOD1X-R | ModLED single module lightheads, Red | 0.7 amps |
| <input type="checkbox"/> Two MOD2X-RR | ModLED double module lightheads, Red/Red | 1.3 amps |
| <input type="checkbox"/> Two MOD2X-RB | ModLED double module lightheads, Red/Blue | 1.3 amps |
| <input type="checkbox"/> Two MOD2X-RA | ModLED double module lightheads, Red/Amber | 1.3 amps |



FireRay



3300 Series



USMLED1



GL1F

ZONE C - Rear Zone

Choose one option from either Surface Mount or Recess/Flush Mount:

| Model | Description | Total amps |
|--|--|------------|
| Surface Mount lights | | |
| <input type="checkbox"/> Two QL64XF-R | QuadraFlare LED lightheads, Red | 3.0 amps |
| <input type="checkbox"/> Two QL64XF-B | QuadraFlare LED lightheads, Blue | 4.0 amps |
| <input type="checkbox"/> One QL64XF-R & One QL64XF-A | QuadraFlare LED lightheads, Red and Amber | 3.0 amps |
| <input type="checkbox"/> Two MOD1F-R | ModLED single module lightheads, Red | 0.7 amps |
| <input type="checkbox"/> Two MOD2F-RR | ModLED double module lightheads, Red/Red | 1.3 amps |
| <input type="checkbox"/> Two MOD2F-RB | ModLED double module lightheads, Red/Blue | 1.3 amps |
| <input type="checkbox"/> Two MOD2F-RA | ModLED double module lightheads, Red/Amber | 1.3 amps |
| Recess/Flush Mount lights | | |
| <input type="checkbox"/> Two GL5-R | FireRay LED lightheads, Red | 2.0 amps |
| <input type="checkbox"/> One GL5-R & One GL5-B | FireRay LED lightheads, Red and Blue | 2.0 amps |
| <input type="checkbox"/> Two MOD1X-R | ModLED single module lightheads, Red | 0.7 amps |
| <input type="checkbox"/> Two MOD2X-RR | ModLED double module lightheads, Red/Red | 1.3 amps |
| <input type="checkbox"/> Two MOD2X-RB | ModLED double module lightheads, Red/Blue | 1.3 amps |
| <input type="checkbox"/> Two MOD2X-RA | ModLED double module lightheads, Red/Amber | 1.3 amps |

LOWER LEVEL PACKAGES - ALL TRUCKS - LED (CONTINUED)

ZONE D - Side Zone

Choose one option from either Surface Mount or Recess/Flush Mount:

| Model | Description | Total amps |
|--|--|------------|
| Surface Mount lights | | |
| <input type="checkbox"/> Two QL64XF-R | QuadraFlare LED lightheads, Red | 3.0 amps |
| <input type="checkbox"/> Two QL64XF-B | QuadraFlare LED lightheads, Blue | 4.0 amps |
| <input type="checkbox"/> One QL64XF-R & One QL64XF-A | QuadraFlare LED lightheads, Red and Amber | 3.0 amps |
| <input type="checkbox"/> Two MOD1F-R | ModLED single module lightheads, Red | 0.7 amps |
| <input type="checkbox"/> Two MOD2F-RR | ModLED double module lightheads, Red/Red | 1.3 amps |
| <input type="checkbox"/> Two MOD2F-RB | ModLED double module lightheads, Red/Blue | 1.3 amps |
| <input type="checkbox"/> Two MOD2F-RA | ModLED double module lightheads, Red/Amber | 1.3 amps |
| Recess/Flush Mount lights | | |
| <input type="checkbox"/> Two GL5-R | FireRay LED lightheads, Red | 2.0 amps |
| <input type="checkbox"/> One GL5-R & One GL5-B | FireRay LED lightheads, Red and Blue | 2.0 amps |
| <input type="checkbox"/> Three GL5-B | FireRay LED lightheads, Blue | 3.0 amps |
| <input type="checkbox"/> Two MOD1X-R | ModLED single module lightheads, Red | 0.7 amps |
| <input type="checkbox"/> Two MOD2X-RR | ModLED double module lightheads, Red/Red | 1.3 amps |
| <input type="checkbox"/> Two MOD2X-RB | ModLED double module lightheads, Red/Blue | 1.3 amps |
| <input type="checkbox"/> Two MOD2X-RA | ModLED double module lightheads, Red/Amber | 1.3 amps |

Choose a midship light for Zone B and Zone D when the distance between optical warning devices exceeds 25 feet:

| Model | Description | Total amps |
|--------------------------------------|---|-----------------|
| Surface Mount lights | | |
| <input type="checkbox"/> Two QL64XF | QuadraFlare LED lightheads, Red or Amber or Blue | 3.0 to 4.0 amps |
| <input type="checkbox"/> Two MOD1F | ModLED single module lightheads, Red or Amber or Blue | 0.7 amps |
| <input type="checkbox"/> Two MOD2F | ModLED double module lightheads, Red or Amber or Blue | 1.3 amps |
| <input type="checkbox"/> Two GL1F | GL1F LED lightheads, Red or Amber or Blue | 2.2 amps |
| <input type="checkbox"/> Two USMLED1 | USMLED1 lightheads, Red or Amber or Blue | 0.8 amps |
| <input type="checkbox"/> Two 330500 | 3300 Series LED lightheads, Red or Amber or Blue | 1.0 amps |
| Recess/Flush Mount lights | | |
| <input type="checkbox"/> Two GL5 | FireRay LED lightheads, Red or Amber or Blue | 2.0 amps |
| <input type="checkbox"/> Two MOD1X | ModLED single module lightheads, Red or Amber or Blue | 0.7 amps |
| <input type="checkbox"/> Two MOD2X | ModLED double module lightheads, Red or Amber or Blue | 1.3 amps |

Additional Notes

- Adapter kits to mount lights in headlight assembly are sold separately.
 Use kit model QL64MHL with QL64XF lights
 Use kit model 979801 with MOD1X lights
 Use kit model 979802 with MOD2X lights
- Use kit model AP1 with GL5 lights
- QuadraFlare QL64XF models include an internal flasher, and the chrome trim ring QL64MC is sold separately.
- ModLED and FireRay lights include chrome trim ring, and require an external flasher
- For lower level applications, multiple color MOD2F and MOD2X lights can be wired by the installer to flash the different colors at the same time or to alternate.
- Additional mid-ship lights may be required to maintain a horizontal distance of less than 25 feet between adjacent lower level optical warning devices.

NFPA 1901 Certificate of Compliance

When mounted in accordance with the standard, the systems offered above are certified by Federal Signal Corporation to meet the Large Apparatus Lower Level lighting requirements of the "NFPA 1901 Standard for Automotive Fire Apparatus, 2003 edition" as described in Chapter 13, titled "Low Voltage Electrical Systems and Warning Devices". This certification is based on tests performed by Federal Signal Corporation which demonstrate that these systems, when functioning properly, shall meet or exceed the minimum optical power requirements of the standard. This document, when properly completed, serves as your certification from Federal Signal Corporation.

Work Order No. _____ Fire Department _____