

# FB15 steady burning lights range

Hazardous locations, ordinary locations



## Overview

These certified steady lights have been designed for use in potentially explosive atmospheres and harsh environmental conditions.

The enclosures are suitable for use offshore or onshore, where lightweight combined with corrosion resistance is required.

The housings are manufactured completely from a U.V. stable, glass reinforced polyester.\* Stainless steel screws and mounting bracket are incorporated ensuring a totally corrosion-free product.

Units can be painted to customer specification and supplied with identification labels.

European and other world wide approvals are available, refer to main section of catalogue.

\*UL pipe mount variants use an alloy lens cover, painted black where applicable.

## Features

- UL certified for USA and Canada:
  - Hazardous locations:
    - Class I, Div. 2, Groups A, B, C & D
    - Class I, Zone 1, AExd IIC T3/T4
  - Ordinary locations: visual-signal device
- CSFM approved
- ATEX approved
- NEMA 4x and 6, IP66 & 67
- Certified temperature:
  - 67°F to +158°F
  - 55°C to +70°C
- Pipe mount or direct mount enclosure corrosion-free GRP
- 60W filament lamp
- Optional stainless steel backstrap (direct mount version only)
- Various lens colours
- Optional cast or wire lens guard
- Up to 3 x ¾" NPT entries



| Certifications     |  |
|--------------------|--|
| UL Haz Locs        | Cert. no. E187894  |
| UL Ord Locs        | Cert. no. E187894. Visual signal device  |
| UL certified       | Class I, Div 2 Groups A,B,C & D<br>Class I, Zone 1 AEx d IIC   |
| Specifications     |  |
| Material           | Body: glass reinforced polyester (UL pipe mount - alloy lens cover)<br>Lens: glass<br>Back plate & fixings: stainless steel 316<br>Wire guard (optional): stainless steel wire<br>Cast guard (optional): aluminium LM25M |
| Finish             | Painted to customer specification  |
| Voltage            | 24, 48V d.c. - 110, 120, 230, 240V a.c.  |
| Lamp type          | 60W GLS filament   |
| Lamp holder        | E27 as standard  |
| Certified temp     | 60W: -67°F to +131°F (-55°C to +55°C) T4<br>-67°F to +158°F (-55°C to +70°C) T3  |
| Weight             | Pipe mount: 5¾lb/2.6kg; direct mount: 6½lb/3.0kg   |
| Ingress protection | NEMA 4X & 6, IP66 & IP67   |
| Terminals          | Direct mount: 12 x 14AWG<br>Pipe mount: 8 x 14AWG  |
| Labels             | Tag/duty label option  |
| Entries            | Standard pipe: ¾" NPT<br>Standard direct: 2 x ¾" NPT<br>Optional direct: 1 x ½"/¾" NPT or 3 x ½"/¾" NPT<br>Contact sales office to order optional entries  |

#### Electrical ratings:

|                        | d.c. |      | a.c. |      |      |      |
|------------------------|------|------|------|------|------|------|
| Voltage                | 24   | 48   | 110  | 120  | 230  | 240  |
| Current (A) - 60W lamp | 2.5  | 1.25 | 0.55 | 0.50 | 0.26 | 0.25 |

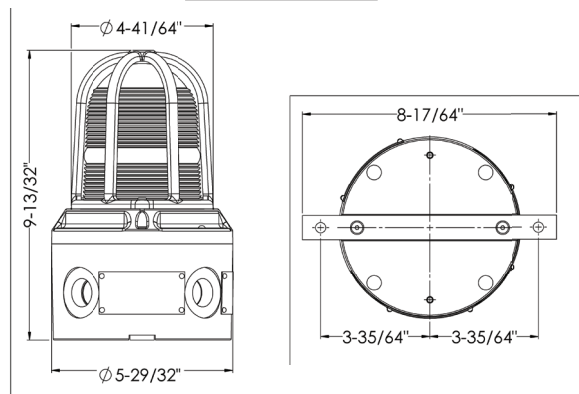
## Ordering requirements

The following code is designed to help in selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box

| Model                          | Certification   | Voltage   | Lamp wattage | Lens colour | Guard    | Fixing                 | Options  | Finish |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
|--------------------------------|---|---|--------------|-------------|----------|------------------------|----------|--------|--|---------|-----------|-----|-----------|-----|---|-------|--|--------|------|------|---|------|---|-------|---|--------|------|--------|---|------------|----|---|--------|---------------|------------|---|--------------------------------|---|-----------------------------|---|---|--------|------|-------|---|-----|---|------|---|--------|---|-------|---|-------|---|---------|----|
| FB15                           |   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
|                                | <table border="1"> <thead> <tr> <th>Certification</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>UL</td> <td>UL</td> </tr> <tr> <td>UL (ordinary location)</td> <td>UW</td> </tr> </tbody> </table> | Certification   | Code         | UL          | UL       | UL (ordinary location) | UW       |        | <table border="1"> <thead> <tr> <th>Wattage</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>60</td> <td>60</td> </tr> </tbody> </table> | Wattage | Code      | 60  | 60        |     | <table border="1"> <thead> <tr> <th>Guard</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>N</td> </tr> <tr> <td>Cast</td> <td>C</td> </tr> <tr> <td>Wire</td> <td>W</td> </tr> </tbody> </table> | Guard | Code   | None   | N    | Cast | C | Wire | W |       | <table border="1"> <thead> <tr> <th>Option</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>N</td> </tr> <tr> <td>Duty label</td> <td>D*</td> </tr> <tr> <td>Tag label</td> <td>T*</td> </tr> <tr> <td>Blanking plug</td> <td>P</td> </tr> </tbody> </table> <p>*Please specify</p> | Option | Code | None   | N | Duty label | D* | Tag label   | T*     | Blanking plug | P          |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Certification                  | Code  |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| UL                             | UL  |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| UL (ordinary location)         | UW  |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Wattage                        | Code  |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| 60                             | 60  |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Guard                          | Code  |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| None                           | N   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Cast                           | C   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Wire                           | W   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Option                         | Code  |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| None                           | N   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Duty label                     | D*  |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Tag label                      | T*  |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Blanking plug                  | P   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
|                                |   | <table border="1"> <thead> <tr> <th>Voltage</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>24V d.c.</td> <td>024</td> </tr> <tr> <td>48V d.c.</td> <td>048</td> </tr> <tr> <td>110V a.c.</td> <td>110</td> </tr> <tr> <td>120V a.c.</td> <td>120</td> </tr> <tr> <td>230V a.c.</td> <td>230</td> </tr> <tr> <td>240V a.c.</td> <td>240</td> </tr> </tbody> </table> | Voltage      | Code        | 24V d.c. | 024                    | 48V d.c. | 048    | 110V a.c.  | 110     | 120V a.c. | 120 | 230V a.c. | 230 | 240V a.c.   | 240   | <table border="1"> <thead> <tr> <th>Colour</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>R</td> </tr> <tr> <td>Blue</td> <td>B</td> </tr> <tr> <td>Green</td> <td>G</td> </tr> <tr> <td>Amber</td> <td>A</td> </tr> <tr> <td>Yellow</td> <td>Y</td> </tr> <tr> <td>Clear</td> <td>C</td> </tr> </tbody> </table> | Colour | Code | Red  | R | Blue | B | Green | G   | Amber  | A    | Yellow | Y | Clear      | C  | <table border="1"> <thead> <tr> <th>Fixing</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Pipe mount</td> <td>P</td> </tr> <tr> <td>Direct mount without backstrap</td> <td>D</td> </tr> <tr> <td>Direct mount with backstrap</td> <td>B</td> </tr> </tbody> </table> | Fixing | Code          | Pipe mount | P | Direct mount without backstrap | D | Direct mount with backstrap | B | <table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Black</td> <td>N</td> </tr> <tr> <td>Red</td> <td>R</td> </tr> <tr> <td>Blue</td> <td>B</td> </tr> <tr> <td>Yellow</td> <td>Y</td> </tr> <tr> <td>Green</td> <td>G</td> </tr> <tr> <td>White</td> <td>W</td> </tr> <tr> <td>Special</td> <td>S*</td> </tr> </tbody> </table> <p>*Please specify</p> | Finish | Code | Black | N | Red | R | Blue | B | Yellow | Y | Green | G | White | W | Special | S* |
| Voltage                        | Code  |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| 24V d.c.                       | 024   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| 48V d.c.                       | 048   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| 110V a.c.                      | 110   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| 120V a.c.                      | 120   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| 230V a.c.                      | 230   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| 240V a.c.                      | 240   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Colour                         | Code  |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Red                            | R   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Blue                           | B   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Green                          | G   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Amber                          | A   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Yellow                         | Y   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Clear                          | C   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Fixing                         | Code  |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Pipe mount                     | P   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Direct mount without backstrap | D   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Direct mount with backstrap    | B   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Finish                         | Code  |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Black                          | N   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Red                            | R   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Blue                           | B   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Yellow                         | Y   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Green                          | G   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| White                          | W   |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |
| Special                        | S*  |   |              |             |          |                        |          |        |  |         |           |     |           |     |   |       |  |        |      |      |   |      |   |       |   |        |      |        |   |            |    |   |        |               |            |   |                                |   |                             |   |   |        |      |       |   |     |   |      |   |        |   |       |   |       |   |         |    |

## General arrangement drawing (all dimensions in inches)

### Direct mount version



### Pole mount version

