

# IP65 LED Bulkhead and Exit Sign

## Fusion

### LED

The **Fusion** range offers an attractive flush mounting luminaire with an optional lens that accommodates a hanging blade exit legend. The luminaires utilise a polycarbonate body and lens and are available with white LED light sources. Ease of installation is assured due to the adjustable arms that swing out and clamp down onto the supporting surface. The optional exit panel is moulded with a wedge shape to improve the luminance distribution over the legends. The plain lens seals the recessed enclosure to IP65 (IP21 for EXIT version).

### OPERATION

The **Fusion** luminaires are available with 16 x white LEDs with Maintained or mains only operation. (Non-maintained operation is available by excluding a switched live supply). All emergency versions provide 3 hour duration as standard from integral high temperature Nickel Cadmium batteries. Maintained versions can be used for standard switched mains lighting but will automatically provide emergency lighting in the event of a complete loss of normal mains supply. The hanging blade exit legend panels require a different lens to the plain version and must be ordered as a complete unit.

The benefits of the modern white low power LEDs include long life (typically 50,000hours+), excellent energy efficiency (>100lm/W), low operating temperatures therefore improving the life of the internal Nickel Cadmium (NiCd) batteries and good operation at low ambient temperatures.

### DALI/Self-Test Options:

The **Fusion** LED luminaires can be specified with integral DALI/Self-Test gear providing automatic Self-Test in accordance with BSEN62034 or fully interoperable DALI operation when connected to a DALI control system.



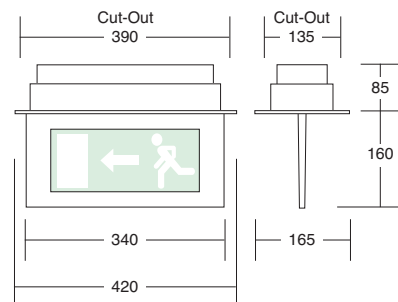
### GENERAL DETAILS

|                       |   |
|-----------------------|---|
| Product               | Bulkhead and Exit Sign                    |
| Light source          | 16 x white LEDs                           |
| Luminaire Lumens      | 170lm                                     |
| Sign viewing distance | 27m (Blade version)                       |
| Construction          | Polycarbonate base with linear prism lens |
| Geartray              | Hinged white plastic                      |
| Dimensions            | See drawings                              |
| Cable entry           | 20mm drilling points (polycarbonate)      |

FFD/M3



FED/M3/ECAD



# IP65 LED Bulkhead and Exit Sign

## SPECIFICATION

|                          | Maintained                                     | Mains only |
|--------------------------|--|------------|
| Light source             | 16 x white LEDs                                |            |
| Colour temperature       | 4500K  |            |
| Luminaire lumens (mains) | 170lm  | 170lm      |
| Lumens (emergency)       | 170lm  | —          |
| IP rating                | <b>FLUSH:</b> IP65 ta25 <b>EXIT:</b> IP20 ta25 |            |
| Ambient temperature (Ta) | 25°C   |            |
| Insulation class         | Class I  |            |
| Supply voltage           | 230V ~ 50Hz                                    |            |
| Supply power             | 3.2W   | 1.7W       |
| Charge power (typical)   | 1.2W   | —          |
| Battery                  | 3.6V 1.5Ah NiCd                                |            |
| Weight                   | 1.9kg  | 1.7kg      |

## FUSION – Emergency Lighting Spacings

| Mounting height Hm (m) | Trans. to wall | Trans. to trans. | Axial to trans. | Axial to axial | Axial to wall |                      |
|------------------------|----------------|------------------|-----------------|----------------|---------------|----------------------|
| 2.5                    | 2.0            | 6.9              | 6.1             | 3.6            | 1.1           | 1 Lux min. at centre |
| 4.0                    | 1.5            | 5.7              | 5.3             | 3.4            | 0.5           |                      |
| 2.5                    | 3.4            | 9.7              | 8.0             | 5.2            | 1.7           | 0.5 Lux min. (open)  |
| 4.0                    | 2.5            | 9.5              | 7.8             | 5.0            | 1.0           |                      |



FED/M3/ISOAU

### ORDER CODES

### Description

#### FUSION (FLUSH)

|         |                      |                    |
|---------|----------------------|--------------------|
| FFD/M3  | Maintained emergency | LED Flush bulkhead |
| FFD/230 | Mains only           | LED Flush bulkhead |

#### FUSION (EXIT)

|         |                      |                                    |
|---------|----------------------|------------------------------------|
| FED/M3  | Maintained emergency | LED Flush Exit with AD exit legend |
| FED/230 | Mains only           | LED Flush Exit with AD exit legend |

OPTIONS: /DALI DALI or Self-Test emergency operation

BLADE EXIT LEGENDS:

|        |            |                    |
|--------|------------|--------------------|
| /ECAR  | EC Format  | — Arrow Right/Left |
| /ECAD  | EC Format  | — Arrow Down       |
| /ISOAR | ISO Format | — Arrow Right/Left |
| /ISOAU | ISO Format | — Arrow Up         |