

## IP65 Bulkhead and Exit Sign

### Fusion

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.

**NOTE:** Fusion luminaires can be equipped with **SurePath BLE** Bluetooth addressable Gateway modules. *See Data Sheet.*

#### DALI/Self-Test Options:

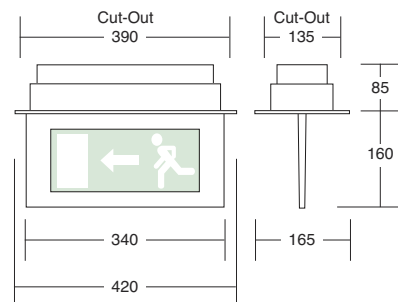
The **Fusion** LED luminaires can be specified with integral DALI/Self-Test gear providing automatic Self-Test in accordance with BSEN62034 or fully interoperable DALI operation when connected to a DALI control system.

**Fusion** luminaires can also be specified with DALI control mains drivers or both DALI mains and DALI Maintained emergency.



#### GENERAL DETAILS

Product	Bulkhead and Exit Sign
Light source	16 x white LEDs (CRI >70)
Luminaire Lumens	>160lm
Sign viewing distance	27m (Blade version)
Construction	Polycarbonate base with optical grade, UV stabilised prism lens
Geartray	Hinged white plastic
Dimensions	See drawings
Cable entry	20mm drilling points (polycarbonate)



All details and specifications shown in this document are deemed correct at time of publication. The right to modify equipment, change specifications and instructions without notice, is reserved as part of the Emergency Lighting Products Limited policy of continuous development and improvement. We endeavour to keep all our customers informed of any alterations as and when they occur.



# IP65 Bulkhead and Exit Sign

## SPECIFICATION

	Maintained	Mains only
Light source	16 x white LEDs (CRI >70)	
Colour temperature	4500K	
Luminaire lumens (mains)	>160lm	>160lm
Lumens (emergency)	>160lm	—
IP rating	<b>FLUSH:</b> IP65 ta25 <b>EXIT:</b> IP20 ta25	
Ambient temperature (Ta)	25°C	
Insulation class	Class II	
Supply voltage	230V ~ 50Hz	
Supply power	3.0W	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)

<b>FFD/M3</b>	Maintained emergency Flush bulkhead
<b>FFD/M3D</b>	Maintained DALI emergency Flush bulkhead
<b>FFD/230</b>	Mains only Flush bulkhead
<b>FFD/230D</b>	DALI Mains only Flush bulkhead

#### FUSION (EXIT)

<b>FED/M3</b>	Maintained emergency Flush exit
<b>FED/M3D</b>	Maintained DALI emergency Flush exit
<b>FED/230</b>	Mains only Flush exit
<b>FED/230D</b>	DALI Mains only Flush exit

BLADE EXIT LEGENDS:	Code	Format	Arrow
	<b>FED/BLD/ECAR</b>	EC Format	— Arrow Right/Left
	<b>FED/BLD/ECAD</b>	EC Format	— Arrow Down
	<b>FED/BLD/ISOAR</b>	ISO Format	— Arrow Right/Left
	<b>FED/BLD/ISOAU</b>	ISO Format	— Arrow Up
	<b>FED/BLD/ISOAD</b>	ISO Format	— Arrow Down

**NB:** Contact our Sales Office regarding optional LiFePO4 versions

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FUSIONDS-11-21



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 BS EN 60598  
 Emergency Luminaires