

# 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.

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).

The Fusion has been tested and BSI Kitemark Certified to EN60598.2.22 and they are also Certified by United Arab Emirates Ministry of Interior Civil Defense GHQ.

## OPERATION

The **Fusion** luminaires utilise 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 (NiCd).

**NOTE:** Lithium Iron Phosphate (LiFePO<sub>4</sub>) versions are available upon request.

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.

## 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.

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



## GENERAL DETAILS

Product	Bulkhead and Exit Sign
Light source	16 x white LEDs
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)



FFD/M3



FED/M3/ECAD

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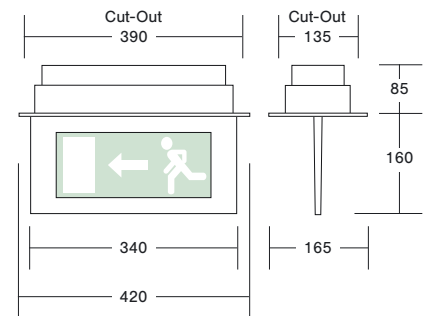
# Fusion

## SPECIFICATION

	Maintained	Mains only
Light source	16 x white LEDs	
Colour temperature	4500K	
Luminaire lumens (mains)	>160lm	>160lm
Lumens (emergency)	>160lm	–
IP rating	<b>FLUSH:</b> IP65 ta25 <b>EXIT:</b> IP21 ta25	
Ambient temperature (Ta)	0°C to 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	



## ORDER CODES

## Description

ORDER CODES	Description
<b>FUSION (FLUSH)</b>	
<b>FFD/M3</b>	Maintained 3-hour emergency Flush bulkhead
<b>FFD/M3/DALI</b>	Maintained 3-hour DALI emergency Flush bulkhead
<b>FFD/230</b>	Mains only Flush bulkhead
<b>FFD/230D</b>	DALI Mains only Flush bulkhead
<b>FUSION (EXIT)</b>	
<b>FED/M3</b>	Maintained 3-hour emergency Flush exit
<b>FED/M3/DALI</b>	Maintained 3-hour DALI emergency Flush exit
<b>FED/230</b>	Mains only Flush exit
<b>FED/230D</b>	DALI Mains only Flush exit
OPTIONS:	<b>/BLE</b> Wireless DALI emergency
BLADE EXIT LEGENDS:	<b>FED/BLD/ECAL-R</b> EC format – Arrow Left/Right
	<b>FED/BLD/ECAD</b> EC format – Arrow Down
	<b>FED/BLD/ISOAL-R</b> ISO format – Arrow Left/Right
	<b>FED/BLD/ISOAD</b> ISO format – Arrow Down
	<b>FED/BLD/ISOAU</b> ISO format – Arrow Up

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

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