

# IP65 LED and 8W T5 Bulkhead and Exit Sign

## Fusion

### LED (/D) or 8Watt Fluorescent (/F)

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 or 8Watt fluorescent 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.

### OPERATION

The **Fusion** luminaires are available with 16 x white LEDs or a single 8Watt fluorescent light source 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.

The luminaires fully comply with the requirements of EN60598.2.22 and the low energy consumption assists with compliance with Part L requirements.

### 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.



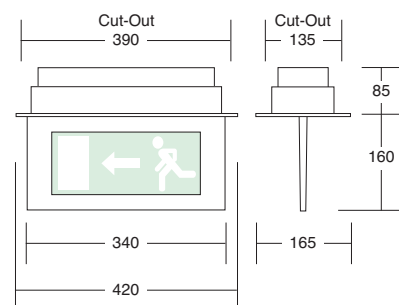
### GENERAL DETAILS

Product	Bulkhead and Exit Sign	
Light source	/D — 16 x white LEDs	/F — 8W T5
Luminaire Lumens	/D — 135lm	/F — 100lm
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



FEF/M3/ECAD



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## SPECIFICATION

	Maintained	Mains only
Light source	/D – 16 x white LEDs	/F – 1 x 8W T5
Colour temperature	4000 to 5000K	
Luminaire lumens (mains)	/D – 135lm /F – 100lm	/D – 135lm /F – 276lm
Lumens (emergency)	/D – 135lm /F – 100lm	–
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	/D – 4.2W /F – 15.5W	/D – 2.4W /F – 11W
Charge power (typical)	1.7 Watts	
Battery	/D – 3.6V 1.5Ah NiCd /F – 2.4V 4Ah 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

#### FUSION (FLUSH)

<b>FFD/M3</b>	Maintained emergency	LED Flush bulkhead
<b>FFD/230</b>	Mains only	LED Flush bulkhead
<b>FFF/M3</b>	Maintained emergency	8 watt fluorescent Flush bulkhead
<b>FFF/230</b>	Mains only	8 watt fluorescent Flush bulkhead

#### FUSION (EXIT)

<b>FED/M3</b>	Maintained emergency	LED Recessed bulkhead with AD exit
<b>FED/230</b>	Mains only	LED Recessed bulkhead with AD exit
<b>FEF/M3</b>	Maintained emergency	8 watt fluorescent Recessed bulkhead with AD exit
<b>FEF/230</b>	Mains only	8 watt fluorescent Recessed bulkhead with AD exit

OPTIONS: /DALI DALI or Self-Test emergency operation *(For LED versions only)*

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