

# Bulkhead Luminaire

HDL 109

Zone 1 Ex emb Bulkhead – Fire Exit Luminaire – GRP Polycarbonate



## Specification:

### GRP Enclosure:

Polycarbonate diffuser

### Mounting Bracket:

Aluminium or Zinc Plated Steel

### Gasket:

Silicone

### External Fasteners:

A4 Stainless Steel

### T Rating:

T3 Gas and Dust

## Key Features:

- 2 x 18W Compact fluorescent lamp for mains operation or emergency option.
- Ideal for exit signs – wall or ceiling mounted.
- Simple installation.
- Straightforward one tool maintenance (5mm Allen Key).
- Emergency version available - 3 hour duration.
- Various colour diffusers available
- Lightweight and robust construction.
- Short gaskets for proven ingress protection.
- Mounting in any attitude.
- Optional mounting bracket compatible with Unistrut (or equivalent) support systems and accessories.
- Low profile.

- Continuous monitoring of fluorescent lamps ensures safe end of life shutdown by electronic ballast in accordance with HSE safety notice 8/05.
- Overvoltage protection 320V for 1 minute.
- Quick lamp start and flicker free operation with high frequency control gear.
- Supplied complete with lamps.
- Uses standard compact fluorescent lamps.
- Bulkhead fitting interchangeable with spares of Hadar HDL100 Exe Fluorescent Luminaire.

Incorporates the new "End of Life" (EoL) protection circuit ballast - according to DIN EN 61347-2-3 and IEC 60079-7 Ed.4 Annex H.

Engineering Solutions  
Design to Manufacture

**HADAR**   
LIGHTING

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**Protection:**

II 2GD Ex emb II T3 IP66/67, Ex Td A21 T100°C

**Certification:** ATEX & IEC Ex by SIRA

	Certification	Ambient	Voltage Range	Certificate
HDL 109	II 2GD Ex emb II T3 IP66/67, Ex Td A21 T100°C	Standard Range -20°C to +40°C Emergency Range -15°C to +40°C	110V to 254V	IEC Ex SIR060026X SIRA 06 ATEX 3079X

**Emergency Version:** Standard emergency – one fluorescent lamp remains at a reduced output. Can be operated, maintained or non maintained.

**Fire Exit Sign:** Wall or ceiling mounted. Can be supplied with signage or facility for end user to fit own. Other warning signage can be used.

**Electrical Specifications:**

Electrical Specification			
Lamp Options	Power consumption	Power factor	Available power supplies
2 x 18W CFL STD	32W circuit watts at 240V – 0.14A (120V – 0.28A)	Better than 0.95	220V – 254V, 47/63 Hz AC/DC 110V – 130V, 47/63 Hz AC/DC Emergency version as above – AC only
2 x 18W CFL EM	36W circuit watts at 240V – 0.15A (120V – 0.3A)		

**Installation:**

**Terminals:** 4mm<sup>2</sup> clamp terminals as standard for live, live switched, neutral, earth and looping provided. Internal and external earth as standard. 6mm<sup>2</sup> and screw terminals available on request.  
**Cable Entries:** 2 x M20. Pole mount fittings supplied with 1 x M20. Other entries available on request.  
**Suspension:** Via bracket supplied or Unistrut reflector. Option of Unistrut, bracket or pole mounting.  
**Installation:** Installation document AL10090 supplied.

**Ordering Matrix:**

Field	Options
Product Version	HDL109 S – Non Emergency E – Emergency
Fittings	U – Loop In/Out (Unistrut) L – Loop In/Loop Out (Bracket) P – Pole Mount
Voltage	H – High Voltage (220V – 254V) M – Medium Voltage (110V – 130V)
Cable Entries	0 – M20 Entries 5 – M25 Entries
Lamp Options	218 – 2 x 18W
Supplied with lamps.	

**Dimensions:**

Lamp	Weight
2 x 18W	2.5kg
2 x 18W Emergency	3kg

**Notes:**

- 1) Final Product Code should be in the format: HDL109SUH0218
- 2) Photometric Data available from the website or contact sales office.
- 3) Brass earth continuity gland plates are available, contact sales office for more information.
- 4) Please specify any signage required at point of ordering. Exit sign pack AL10275.

