

HDL 106NE

# Emergency Modular LED Luminaire

Zone 1 and 21 Ex emb LED Modular Floodlight / Bulkhead Luminaire

**NEW!**

## In comparison with HDL 106E:

- 17% less power consumption
- Overall optical output increased by up to 68%
- Lumens per watt increased by 81%
- 109 LM/W compared to 60 LM/W

## Specification:

### Main Body:

Marine Grade Aluminium

### Lens:

Polycarbonate

### Gaskets:

Silicone

### External Fasteners:

A4 Stainless Steel

### Stirrup Bracket:

316 Stainless Steel

### T Rating:

T4

### Weight:

9.0kg per module



## Key Features:

- Battery backup power provides 3 hours at 50% illumination, 90 minutes at full illumination.
- Modular construction allows the modules to be supplied interlinked with each other to provide greater light output.
- Can be used as a single unit – small floodlight or bulkhead or linked together to replicate a large 250W/400W floodlight.
- Can be supplied in multiple configurations of standard or emergency modules.
- Integrated power supply.
- Low power consumption.
- Rugged construction – resistant to vibration.
- Independently photometrically tested.
- All units supplied with 2 cable entries as standard. Additional entries available on request.
- IP66 and IP67.
- Optional wire guard available for extra protection.
- Narrow, Medium, Wide & Extra Wide beam light output available.

### In comparison to typical Ex d floodlights:

- 70% less weight.
- 73% less power consumption.
- One man installation.
- LED technology will give a predicted lamp life of 10 years+.
- No light pollution.
- Instant start and restrike.
- No light degradation at low temperatures.
- Penetrating white light.
- No flamepaths to maintain.
- Low cost of installation, operation and maintenance.

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Engineering Solutions  
Design to Manufacture



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**HADAR**  
LIGHTING



Protection:

Ex II 2 G D Ex emb IIC T4 Gb, Ex t IIIC T103°C Db IP66/67

Certification: ATEX, IECEx, InMetro & ABS certified.

	Certification	Ambient	Voltage Range	Certificate
HDL106NE	Ex II 2 G D Ex emb IIC T4 Gb, Ex t IIIC T103°C Db IP66/67	-20°C to +50°C	100V to 254V AC only	IECEX SIR 09.0064X SIRA 09ATEX5159X ABS 11-LD801943-PDA InMetro NCC 12.1354 X

Electrical Specifications:

	Electrical Specification			
Lamp Options	Power consumption		Power factor	Available power supplies
48 x 1.04W LED's	Lamp watts - 48W	Total circuit watts - 70W	0.95	100V – 254V 50/60Hz AC only
96 x 1.04W LED's	Lamp watts - 96W	Total circuit watts - 140W		
144 x 1.04W LED's	Lamp watts - 114W	Total circuit watts - 210W		

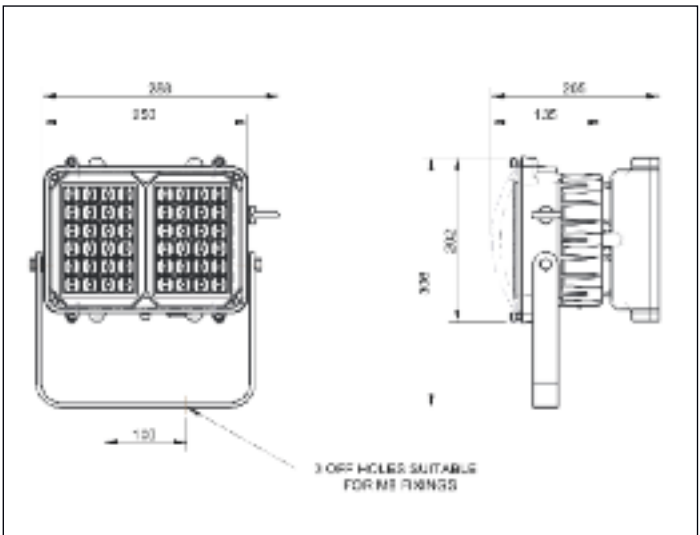
Installation:

**Terminals:** Up to 4mm² terminals for live, neutral, earth and looping are provided. Internal and external earth as standard.  
**Cable Entries:** 2 x M20, one fitted with approved stopper plug, other entries available on request.  
**Suspension:** Via stirrup bracket, other mounting accessories available. Stainless steel eyebolt for safety chain included as standard.  
**Installation:** Installation document supplied.

Ordering Matrix:

Field	Options
Product	HDL106
Version (LEDs)	NE – Emergency (48 LEDs) NES – Emergency/Standard (96 LEDs) NSES – Standard/Emergency/Standard (144 LEDs) (All combinations available)
Beam Pattern (add per module)	N – Narrow M – Medium W – Wide X – Extra Wide
Light	W – Cool White light X – Warm White light Other colours available on request.
Cable Entries	0 – M20 5 – M25
Casting Colour	04 – Colour RAL 7035 (Grey)
Other Options	H – Horizontal (available on single units only)

Dimensions:



<b>Weight:</b> 48 LED Luminaire: 9kg 96 LED Luminaire: 15-18kg 144 LED Luminaire: 21-27kg
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<b>Notes:</b> 1) Typical ordering reference HDL106NEEEMMMW004 2) Photometric Data available from the website or contact sales office.
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Data is correct at time of print, but is subject to change due to continual product improvement.  
Zone 2 and Industrial versions available, please refer to the website or contact sales office for further details.