Modular LED Luminaire

HDL 106S

Zone 1 Ex emb LED Modular Floodlight / Bulkhead Luminaire

Specification:

Main Body:
Marine Grade Aluminium

Diffuser:
Polycarbonate

Gaskets:
Silicone

External Fasteners:
A4 Stainless Steel

Stirrup Bracket:
316 Stainless Steel

T Rating:
T4

Weight:
6.0kg per module

Key Features:

- 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.
- Each module utilises 48 off 1.2W LED's
- Integrated power supply.
- Low power consumption.
- Rugged construction – resistant to vibration.
- Independently photometrically tested.
- All units supplied with 2 cable entries. Additional entries available on request.
- IP66 and IP67.
- Optional wire guard available for extra protection.
- Infra red variants available (for use with security cameras).
- Narrow, Medium, Wide and Extra Wide beam light output available.
- Multiple mounting options available.
- Emergency version available - see data sheet HDL106E.

In comparison to typical Ex d floodlights:
- 60% less weight.
- 50% 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.
- Photocell option available.
- No flamepaths to maintain.
- Low cost of installation, operation and maintenance.

Engineering Solutions
Design to Manufacture

HADAR LIGHTING

Protection:
II 2GD Ex emb IIC T4 Gb IP66/67, Ex t IIIC T103°C Db

Certification: ATEX & IEC Ex and ABS certified.

	Certification	Ambient	Voltage Range	Certificate
HDL106S	II 2GD Ex emb IIC T4 Gb IP66/67, Ex t IIIC T103°C Db	-20°C to +50°C	100V to 254V AC input 24V AC/DC	IEC Ex SIR09.0064X SIRA 09ATEX5159X ABS 11-LD801943-PDA

Electrical Specifications:

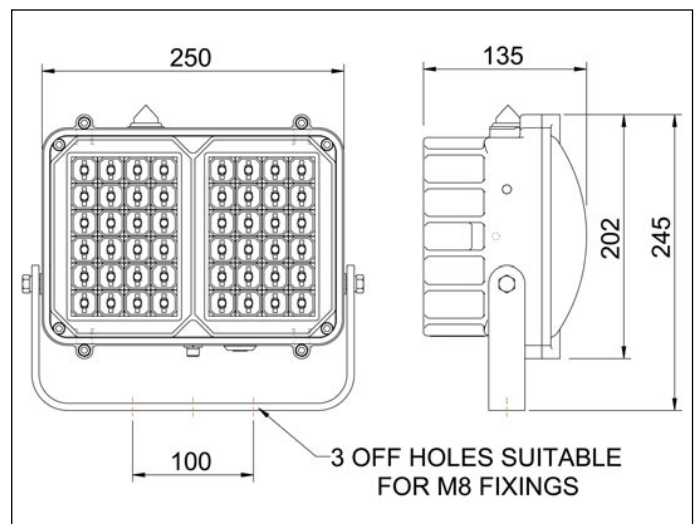|	Electrical Specification			
Lamp Options	Power consumption		Power factor	Available power supplies
24 x 1.2W LED's	30W Max			100V – 254V 47/63Hz AC only
48 x 1.2W LED's	60W Max		0.95	or
96 x 1.2W LED's	120W Max			24V AC/DC
144 x 1.2W LED's	180W Max			

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 AL10578 supplied.

Ordering Matrix:

Field	Options
Product	HDL106S
Version (LEDs)	0 – 24 LEDs 1 – 48 LEDs 2 – 96 LEDs 3 – 144 LEDs
Voltage	H – 100 - 254V AC only L – 24V AC/DC
Beam Pattern	N – Narrow M – Medium W – Wide X – Extra wide
Mount	H – Horizontal mount (single module version only) V – Vertical mount C – Ceiling mount
Light	W – White light R – Infra red light Y – Yellow light Other colours available on request
Cable Entries	0 – M20 5 – M25
Other Options	04 – Colour RAL 7035 (Grey) 09 – Colour RAL 7035 (Grey) c/w Photocell

Dimensions:

250   135
202   245
100
3 OFF HOLES SUITABLE FOR M8 FIXINGS

Weight:
24 and 48 LED Luminaire: 6kg
96 LED Luminaire: 12kg
144 LED Luminaire: 18kg

Notes:
1) Typical ordering reference HDL106S1HMHW004.
2) Photometric Data available from the website or contact sales office.

Horizontal mount

Vertical mount

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