

# Fluorescent Luminaire

HDL 100

Zone 1 Ex em Fluorescent Luminaire



## Specification:

**Enclosure:**

Polycarbonate

**Lamp Envelope:**

Polycarbonate

**Reflector:**

Aluminium Powder Coated

**Gaskets:**

Silicone

**External Fasteners:**

A4 Stainless Steel

**T Rating:**

T4

**Surface Temp:**

100°C

## Key Features:

- Simple Installation.
- Straightforward maintenance.
- Emergency version available.
- Rugged construction
- Easily relamped with detachable lamp envelope.
- Mains isolation not required when relamping.
- Short gaskets for proven ingress protection.
- Mounting in any attitude.
- Features a reflector compatible with Unistrut or equivalent channel support systems and accessories.
- Pole mounting version available.
- 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.
- Electronic control gear for instant operation at lower temperatures.

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



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### Protection:

II 2GD Ex emb II T4/T5 IP66/67, Ex tD A21 T100°C

**Certification:** ATEX & IEC Ex certified by SIRA; ABS approved for marine use

|         | Certification                    | Ambient  | Voltage Range | Certificate  |
|---------|----------------------------------|--|---------------|--|
| HDL 100 | II2GD EX emb II<br>T4/T5 IP66/67 | 2 x 18W / 36W<br>-30°C to +55°C T4<br>-30°C to +32°C T5<br>2 X 58W<br>-30°C to +53°C T4<br><br>Emergency Range -15°C | 110V to 254V  | IEC Ex SIR 06.0026X<br>SIRA 06 ATEX 3079X<br>ABS 07-LD219463-PDA |

### Electrical Specifications:

| Electrical Specification |   |                |  |
|--------------------------|---|----------------|--|
| Lamp Options             | Power consumption                                 | Power factor   | Power supply   |
| 2 x 18W                  | 32W circuit watts at 240V – 0.14A (120V – 0.28A)  | Better<br>than | 220V – 254V, 47 / 63 Hz AC / DC                          |
| 2 x 36W                  | 62W circuit watts at 240V – 0.27 A (120V – 0.54A) |                | 110V – 130V, 47 / 63 Hz AC / DC (2 X 18W / 2 X 36W only) |
| 2 x 58W                  | 92W circuit watts at 240V – 0.40A (120V – 0.80A)  | 0.95           | Emergency version as above – AC only                     |

### Installation:

|                      |   |
|----------------------|---|
| <b>Terminals</b>     | Up to 6mm <sup>2</sup> clamp terminals for live, live switched, neutral, earth and looping provided. Internal and external earth as standard. Screw terminals on request.   |
| <b>Cable Entries</b> | 2 x M20. Pole mount fittings supplied with 1 x M20 (other entries upon request).  |
| <b>Suspension</b>    | The aluminium reflector incorporates a channel which is compatible with Unistrut (or equivalent) fixings and accessories and allows the installer to select variable fixing centres. Technical booklet with various mounting options available upon request. Locknuts supplied and Gland Plates available, (see below). |
| <b>Installation</b>  | Installation document AL10086 supplied.   |

### Ordering Matrix:

| Field         | Options  |
|---------------|--|
| Product       | HDL 100  |
| Version       | S – Non Emergency<br>E - Emergency                                 |
| Fittings      | L – Loop In / Loop Out<br>P – Pole Mount                           |
| Voltage       | H – High Voltage (220V – 254V)<br>M – Medium Voltage (110V – 130V) |
| Cable Entries | 0 – M20 Entries<br>5 – M25 Entries                                 |
| Lamp Options  | 236 – 2 x 18W<br>218 – 2 x 36W<br>258 – 2 x 58W                    |

### Dimensions:

|          |          |               |
|----------|----------|---------------|
|          |          |               |
|          | <b>A</b> | <b>Weight</b> |
| 2 x 18W  | 970mm    | 4kg           |
| 2 x 36 W | 1580mm   | 5.8kg         |
| 2 x 58W  | 1880mm   | 6.8kg         |

#### Notes:

- 1) Final Product Code should be in the format: HDL100SPH0218
- 2) Bi-Pin as standard. Contact sales office for Single Pin.
- 3) For Photometric Data contact the sales office.
- 4) Brass earth continuity gland plates are available, contact sales office for more information.

