

# Fluorescent Luminaire

HDL 100

Zone 1 and 21 Ex emb Fluorescent Luminaire



## Specification:

### Enclosure:

Polycarbonate

### Lamp Envelope:

Polycarbonate

### Reflector:

Aluminium Powder Coated

### Gaskets:

Silicone

### External Fasteners:

A4 Stainless Steel

### T Rating:

T4

## Key Features:

- Simple Installation.
- Straightforward one tool maintenance (5mm Allen Key).
- 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.
- High frequency electronic control gear for instant operation at lower temperatures.
- Emergency version available maintained or non-maintained - 3 hour duration.

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

Engineering Solutions  
Design to Manufacture

**HADAR**   
LIGHTING

Hadar Lighting, Jubilee Industrial Estate, Ashington  
Northumberland, NE63 8UG United Kingdom

T: +44 (0) 1670 814 877  
F: +44 (0) 1670 858 638

[enquiries@hadar-lighting.com](mailto:enquiries@hadar-lighting.com)

[www.hadar-lighting.com](http://www.hadar-lighting.com)

### Protection:

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

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

	Certification	Ambient	Voltage Range	Certificate
HDL 100	Ex II 2 G D Ex emb II T4/T5, Ex tD A21 IP66/67 T100°C	2 x 18W / 36W -30°C to +55°C T4 -30°C to +32°C T5 2 X 58W -30°C to +53°C T4  Emergency Range -15°C	110V to 254V	IECEX SIR 06.0026X SIRA 06ATEX3079X ABS 07-LD219463-1-PDA

### Electrical Specifications:

Electrical Specification			
Lamp Options	Power consumption	Power factor	Power supply
2 x 18W Standard	32W circuit watts at 240V – 0.14A (120V – 0.28A)	Better than 0.95	220V – 254V, 50 / 60 Hz AC / DC  110V – 130V, 50 / 60 Hz AC / DC (2 X 18W / 2 X 36W only)  Emergency version as above – AC only
2 x 18W Emergency	36W circuit watts at 240V – 0.16A (120V – 0.32A)		
2 x 36W Standard	62W circuit watts at 240V – 0.27 A (120V – 0.54A)		
2 x 36W Emergency	68W circuit watts at 240V – 0.30 A (120V – 0.60A)		
2 x 58W Standard	92W circuit watts at 240V – 0.40A		
2 x 58W Emergency	96W circuit watts at 240V – 0.42A		

### 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 upon request). Locknuts supplied and Gland Plates available, (see below).
Suspension	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.
Installation	Installation document AL10086 supplied.

### Ordering Matrix:

Field	Options
Product	HDL 100
Version	S – Non Emergency E - Emergency
Fittings	L – Loop In / Loop Out 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 236 – 2 x 36W 258 – 2 x 58W

### Dimensions:

	A	Weight
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) Photometric Data available from the website or contact sales office.
- 3) Brass earth continuity gland plates are available, contact sales office for more information.



Data is correct at time of print, but is subject to change due to continual product improvement.