

# EVOLUTION JUNIOR

# Ex de FLOODLIGHT

The Evolution Junior is a lightweight high performance floodlight especially suited for temporary and portable lighting.

The design features a revolutionary concept where the essential flame-proof path needed for access to the lamp is inside the increased safety terminal chamber and is entered by a hinged cover with a single captive screw.

This feature is very useful in temporary and transportable applications where lamps may need to be replaced frequently.

Lamps up to 300W tungsten-halogen can be used.

The fixed floodlight version uses tubular HPS and metal halide lamps up to 70W. Explosion protection for gas group IIC (Hydrogen) is standard and a low temperature version for gas group IIB at -50°C is available.



## Standard Specification

## Features

|                     |   |
|---------------------|---|
| Type of Protection  | Ex de (Flameproof, Increased Safety)  |
| ATEX Classification | Group II Category 2 G   |
| Area Classification | Zone 1 and Zone 2 areas to EN 60079-10 with installation to EN 60079-14.<br>Gas Groups IIA, IIB and IIC |
| Apparatus Standard  | EN 50014 EN 50018 EN 50019  |
| Certificate         | EC Type Examination Certificate<br>BAS99ATEX2228  |
| Coding              | Ⓔ II 2 G EEx de IIC<br>(refer to table for T rating and Ambient)  |
| Enclosure           | Aluminium alloy LM6 to BS 1490.<br>All fastenings stainless steel.<br>Toughened glass window            |
| Reflector           | Wide beam, high purity anodised aluminium   |
| Entry               | 2 x M20 cable entries   |
| Termination         | 3 core 6mm <sup>2</sup> max. conductor with looping   |
| Installation        | Stirrup mounting bracket  |
| Lamp Type           | HPS, Metal Halide or Double Ended Linear<br>Tungsten-Halogen  |
| Lampholder          | R7s or E27  |
| Control Gear        | Internal copper/iron with PFC correction capacitor  |
| Relamping           | Access via hinged end cover on release of single screw  |
| Burning Position    | Universal for HID, +/-45° on horizontal axis for Tungsten-Halogen Lamps                                 |
| Ingress Protection  | IP66/67 to EN 60529   |
| Electrical Supply   | 220, 230, 240, 254V 50Hz (HID)<br>24V(ac/dc)-250V (dependant on voltage)                                |

Installation in gas groups IIA, IIB and IIC

Easy and quick access for maintenance

Simple, rapid lamp replacement and flamepath inspection

Exceptional photometric efficiency

GOST Approved

CEPEL Approved

### Applications

Zone 1 and 2 hazardous areas  
Temporary and transportable lighting  
Offshore oil and gas platforms  
Chemical industry  
Distilleries  
Aircraft hangers  
Tank farms  
Sewage treatment plants  
Security and perimeter lighting  
General area floodlighting  
Gas pumping stations  
Pharmaceutical industry  
Drum storage areas  
Gas line repairs

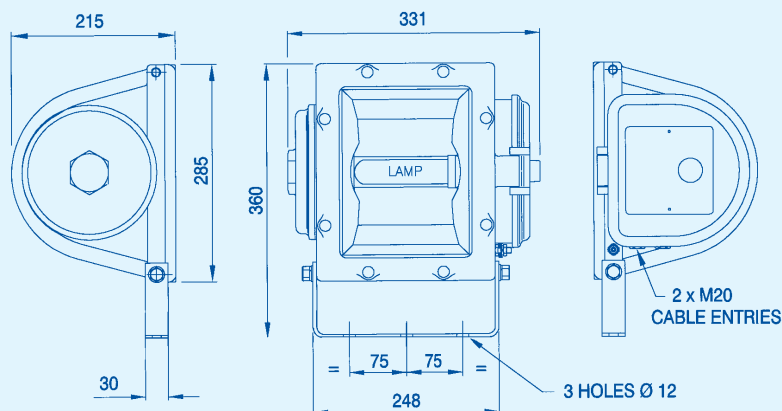
| Std. Cat No.   | Wattage  | Lamp                 | Lampholder | T Class | Ambient °C | Weight |
|----------------|----------|----------------------|------------|---------|------------|--------|
| EVJD/070/MS    | 70W      | HPS and Metal Halide | E27        | T4      | 40         | 12kg   |
| EVJD/070/MS    | 70W      | HPS and Metal Halide | E27        | T3      | 55         | 12kg   |
| EVJD/300/TL    | 150W     | Tungsten-Halogen     | R7s        | T3      | 55         | 10kg   |
| EVJD/300/TL    | 200W     | Tungsten-Halogen     | R7s        | T3      | 40         | 10kg   |
| EVJD/300/TL    | 250W     | Tungsten-Halogen     | R7s        | T3      | 20         | 10kg   |
| EVJD/300/TL    | 250W     | Tungsten-Halogen     | R7s        | T2      | 50         | 10kg   |
| EVJD/300/TL    | 300W     | Tungsten-Halogen     | R7s        | T2      | 40         | 10kg   |
| EVJD/150/TL/24 | 150W 24V | Tungsten-Halogen     | R7s        | T3      | 55         | 10kg   |

#### Secondary Glass Shield Cat Nos.

|                   |          |                  |     |    |    |      |
|-------------------|----------|------------------|-----|----|----|------|
| EVJD/300/TL/GS    | 150W     | Tungsten-Halogen | R7s | T3 | 55 | 10kg |
| EVJD/300/TL/GS    | 200W     | Tungsten-Halogen | R7s | T3 | 25 | 10kg |
| EVJD/300/TL/GS    | 200W     | Tungsten-Halogen | R7s | T2 | 50 | 10kg |
| EVJD/300/TL/GS    | 250W     | Tungsten-Halogen | R7s | T2 | 40 | 10kg |
| EVJD/150/TL/24/GS | 150W 24V | Tungsten-Halogen | R7s | T3 | 55 | 10kg |

#### Options - Suffix to Catalogue No.

|      |   |      |  |
|------|---|------|--|
| /60  | 60Hz  | /FS  | Suitable for use with floor stand (floor stand should be ordered separately)   |
| /M25 | M25 Entries                                       | /CGP | 3 core 1.5mm cable c/w Ex gland, Industrial 110V plug (only when luminaire is supplied with cable fitted - cable should be ordered separately) |
| /P   | PTFE coating                                      |      |  |
| /Y   | Yellow painted version                            |      |  |
| /LT  | Low temperature version<br>-50°C (IIA & IIB only) | /CG  | Cable and Ex gland fitted (order cable separately)   |



#### Accessories (Should be ordered separately)

| Accessories (Should be ordered separately)                                  | Catalogue Order Code |
|---|----------------------|
| Pole mounting brackets  | SEVJ4-0003           |
| Anti-glare shield   | SEVJ4-0001           |
| Wire guard  | SEVJ4-0002           |
| Floor stand assembly (to be ordered with floor stand version of floodlight) | SEVJR-0001           |
| Tripod stand assembly   | SEVJR-0002           |
| Cable (ordered per metre)   | E0414-0009           |
| Ratchet handles (2 off) for adjustable aiming                               | SEVJR-0005           |
| M20 brass, zinc plated Ex e gland   | E0420-2020           |

Product design and specifications are subject to change without notice, please check the Chalmite website for latest specifications.