

EVOLUTION

Ex de FLOODLIGHT

The revolutionary Evolution concept is now highly valued for many applications where its use achieves optimum lighting levels with minimum maintenance costs. There are no exposed flameproof paths. The only essential flameproof path at the lampholder spigot is contained within the increased safety control gear and terminal chamber located at the end of the main flameproof lamp enclosure. This is accessed by a single captive screw in the hinged cover.

The ATEX category 2 G D luminaire utilises Ex de protection and IP66/67 sealing making it suitable for use for ignitable gas and dust applications. The Evolution can be used as standard with up to 400W HID lamps or increased to 600W with a separate Ex e control gear box.

Explosion protection for gas group IIC (Hydrogen) is standard and a low temperature version for gas group IIB at -50°C is available.

Ex de PENDANT HIGH BAY

The Pendant version has simple mounting points and is designed for use in high bay applications.



Standard Specification

Features

| | | |
|---------------------|--|--|
| Type of Protection | Ex de (Flameproof, Increased Safety) Dust protected enclosure | Installation in gas groups IIA, IIB and IIC |
| ATEX Classification | Group II Category 2 G D | Easy and quick access for maintenance |
| Area Classification | Zone 1 and Zone 21 areas to EN 60079-10 and EN 50281-3 with installation to EN 60079-14 and EN 50281-1-2 Gas Groups IIA, IIB and IIC | |
| Apparatus Standard | EN 50014 EN 50018 EN 50019 EN 50281-1-1 | Simple, rapid lamp replacement and flamepath inspection |
| Certificate | EC Type Examination Certificate BAS98ATEX2373 | Reduced maintenance due to no exposed flamepath |
| Coding | ⊕ II 2 G D EEx de IIC (refer to table for T rating and Ambient) | |
| Enclosure | Aluminium alloy LM6 to BS 1490 All fastenings stainless steel. Toughened glass window | Exceptional photometric efficiency |
| Reflector | Wide beam, high purity anodised aluminium | Effective light distribution for many applications |
| Entry | 2 x M20 cable entries | |
| Termination | 3 core 6mm ² max. conductor with looping | GOST Approved |
| Installation | Stirrup mounting bracket with aiming quadrant | |
| Control Gear | Internal copper/iron with PFC correction capacitor and timed ignitor | CEPEL Approved |
| Relamping | Access via hinged end cover on release of single screw | CSA Approved |
| Lampholder | E40 (R7s for linear Tungsten-Halogen) | IEC Ex Compliant |
| Lamp Type | HPS, Metal Halide or Tungsten-Halogen | |
| Burning Position | Universal for HID, +/-45° on horizontal plain for Tungsten-Halogen lamps | |
| Ingress Protection | IP66/67 to EN 60529 | |
| Electrical Supply | 110, 120, 220, 230, 240, 254V 50Hz HPS & Metal Halide 24V - 254V ac/dc linear Tungsten-Halogen (500W) 110V - 254V single ended Tungsten-Halogen | |

ATEX CATEGORY 2 ZONE 1 & 21 APPLICATIONS

| Std. Cat No. | Wattage | Lamp | Lampholder T Class (Gas) | T °C (Dust) | Ambient °C | Weight |
|---------------------|---------|------------------------|--------------------------|-------------|------------|--------------------|
| EVOD/150/MS | 150W | HPS and Metal Halide | E40 | T4 T3 | 130 175 | 40 55 28kg |
| EVOD/250/MS | 250W | HPS and Metal Halide | E40 | T4 T3 | 130 175 | 40 55 28.5kg |
| EVOD/400/MS | 400W | HPS and Metal Halide | E40 | T3 | 175 | 55 28.5kg |
| EVOD/600/HS* | 600W | HPS | E40 | T3 | 195 | 35 25kg |
| EVOD/500/TH | 500W | Single Ended T/Halogen | E40 | T3 | 195 | 40 25kg |
| EVOD/500/TL | 500W | Linear T/Halogen | R7s | T3 | 195 | 55 25kg |

For Pendant substitute EVPD for EVOD

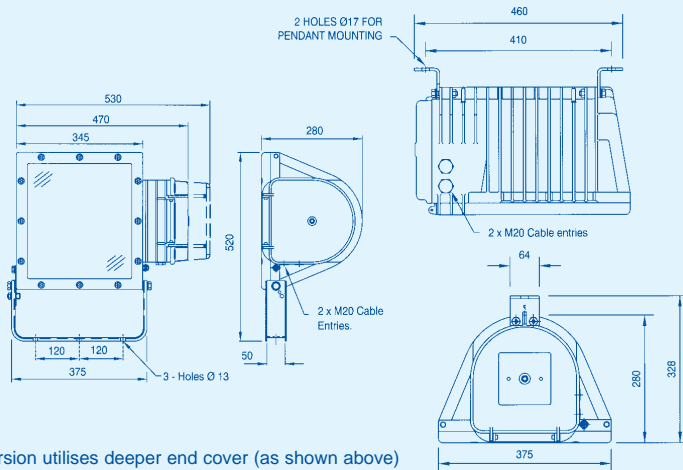
*Ignitor only fitted. Remote gear box required.

Options - Suffix to Catalogue No.

| | |
|-------------|---|
| /120 | 120V (Weight increase of +12kg) (Extended end cover) |
| /60 | 60Hz |
| /M25 | M25 Entries |
| /N | Narrow beam reflector |
| /M | Medium beam reflector |
| /P | PTFE coating |
| /LT | Low temperature version -50°C (Gas groups IIA and IIB only) |
| /D | Dust protected (Only marked for dust when this option is added) |

Applications

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



NOTE: 120V version utilises deeper end cover (as shown above)

Accessories (Should be ordered separately)

Catalogue Order Code

| | |
|--|-------------------|
| 284 retrofit bracket (allows Evolution to pick-up 284 fixings) | SEVO1-0001 |
| Pole mounting brackets | SEVO4-0001 |
| Anti-glare shield | SEVO4-0002 |
| Wire guard | SEVO4-0003 |
| Swing jib damper assembly | SEVO1-0015 |
| Swinging jib bracket assembly | SEVO4-0009 |
| 120V Swinging jib bracket assembly | SEVO4-0012 |

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

