

Chalmit

Andrew Chalmers & Mitchell Limited

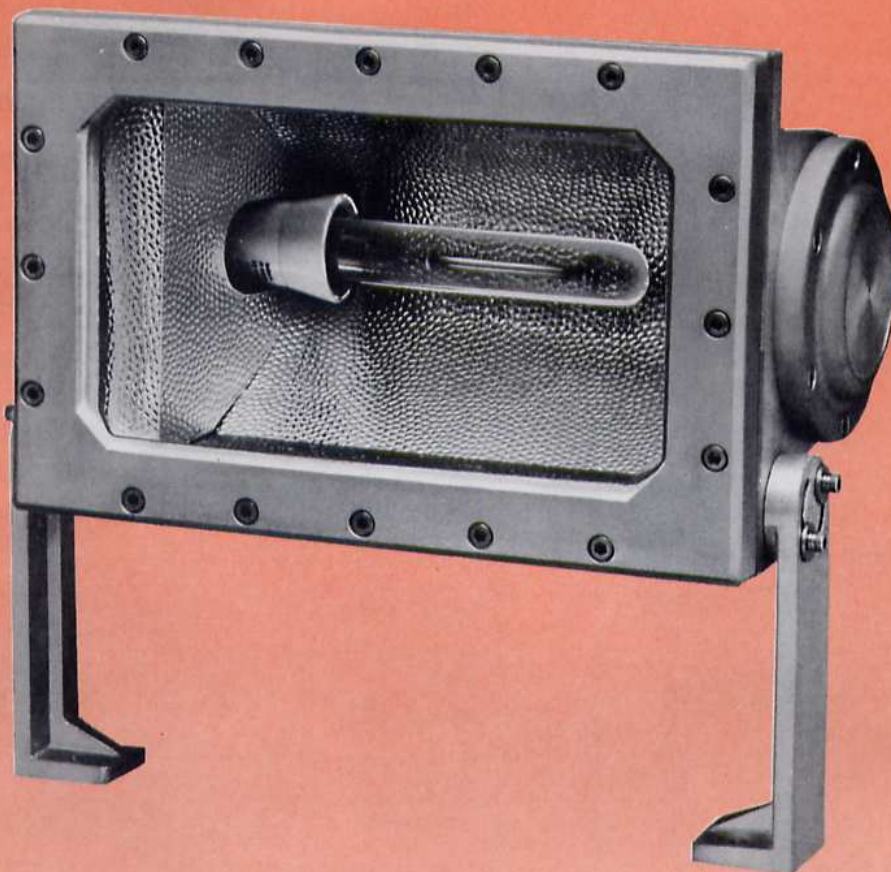
443-447 Hillington Road, Glasgow G52 4QW, Scotland, U.K.

Telephone: 041-882 5553 041-882 3318

Telex: 779378 CHALMT G Fax: 041-883 3704

ZONE 1 HAZARDOUS AREA LIGHTING RANGE

No. 284
600 watt
SON/T



No. 206 - 70 watt SON



NEW 261 - 400 watt SON/R



No. 216 - 70 watt SON



CHALMIT ZONE 1 LIGHTING

Lighting for Zone 1 hazardous areas demands high standards of design and manufacture.

No one reaches higher technical specifications than CHALMIT. Our range of Zone 1 luminaires offers the highest standards of construction in the industry. No other manufacturer can offer such total reliability and flexibility combined with the ability to operate in extremes of temperature and corrosive environments.

CHALMIT Zone 1 luminaires are operating efficiently throughout the world in some of the most hazardous and arduous environments known to lighting. Our reputation for quality and reliability has led to CHALMIT floodlights being used on over 90% of all North Sea oil and gas platforms.

CHALMIT HIGH INTENSITY FLOODLIGHT Mk II (EEx de)



No. 284 - 400 watt SON/T

The CHALMIT Mk II High Wattage Floodlight is of superb construction incorporating new design features.

Manufactured from corrosion resistant aluminium alloy LM6, this latest floodlight is fully weatherproof to IP67 and of reduced weight. For High Pressure Sodium the luminaire can be supplied with an integral ignitor. All other control gear is housed in a separate CHALMIT 700 Series Control Gear Box. The integral ignitor allows control gear to be mounted further from the floodlight and also eliminates the requirement for expensive high voltage cable. Having remote control gear eliminates the likelihood of it overheating which can occur in high wattage Zone 1 luminaires with internal control gear. The CHALMIT method of construction results in low maintenance and permits the floodlight to operate in lower temperature classifications in an ambient of up to 40°C.

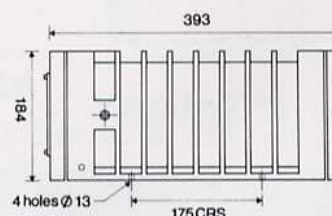
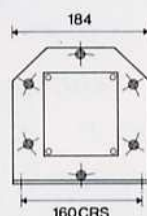
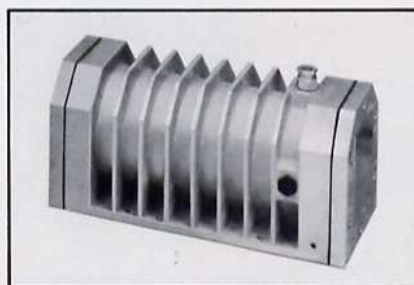
For ease of installation the floodlight is now supplied with Exe entries allowing the use of a wide variety of cable and glands.

SPECIFICATION—FLOODLIGHT

| | |
|---------------------|--|
| TYPE OF PROTECTION | EEx de — Flameproof |
| AREA CLASSIFICATION | Zone 1 and 2 Apparatus Groups IIA and IIB |
| APPARATUS STANDARD | BS.5501 Part 1, 5 and 6 EN50 014 EN50 018 EN50 019 |
| CERTIFICATE | BASEEFA No. Ex 88 B 1033 |
| ENCLOSURE | Aluminium Alloy LM6 or Gun Metal LG2; Heavy duty toughened glass window |
| REFLECTOR | High purity anodised aluminium |
| ENTRY | Via 2 x 20 mm tapped Exe entries. (1 plugged) |
| TERMINATION | Incoming terminal suitable for up to 4 mm ² cable |
| INSTALLATION | Via foot mounting brackets |
| CONTROL GEAR | See 700 Series Control Gear Box. Integral Ignitor for H.P.S. |
| RELAMPING | Via removable End Cover |
| PROTECTION | IP 67 |

SPECIFICATION—CONTROL GEAR BOX 700 SERIES

| | |
|----------------------|---|
| TYPE OF PROTECTION | EExd — Flameproof |
| AREA CLASSIFICATION | Zone 1 and 2 Apparatus Groups IIA and IIB |
| APPARATUS STANDARD | BS.5501 Part 5, (EN50 0018) BS.4683 Part 2 |
| CERTIFICATE | BASEEFA Ex 821225 BASEEFA Ex 82226 |
| ENCLOSURE | Aluminium Alloy LM6 or Gun Metal LG2 (P.T.F.E. coating available) |
| ENTRY | Direct Entry 3 x 20 mm or 3 x 25 mm (1 Plugged) |
| TERMINATION | Incoming terminals suitable for looping up to 4 mm ² cable |
| BALLAST | Tapped |
| CAPACITOR | Power Factor Correction to a Maximum of 0.85 LAG |
| PROTECTION | IP 67 |
| TEMP. CLASSIFICATION | T6, 50°C |





| ZONE 1 HIGH INTENSITY FLOODLIGHT | | | | | | ORDER REF. | |
|----------------------------------|-------|--------------------------------|--------|------------|----------|-----------------|------------------|
| LAMP | WATTS | VOLTAGE | LUMENS | TEMP CLASS | MAX AMB. | FLOODLIGHT | CONTROL GEAR BOX |
| SON | 150 | 210-250V 50Hz 220-270V 60Hz | 13850 | T4 | 40 | 286/150 | 701/150 |
| SON | 250 | 210-250V 50Hz 220-270V 60Hz | 24800 | T3 | 40 | 286/250 | 701/250 |
| SON | 400 | 210-250V 50Hz 220-270V 60Hz | 46500 | T3 | 40 | 286/400 | 701/400 |
| SON/T | 150 | 210-250V 50Hz 220-270V 60Hz | 14350 | T4 | 40 | 284/150 | 701/150 |
| SON/T | 250 | 210-250V 50Hz 220-270V 60Hz | 27000 | T3 | 40 | 284/250 | 701/250 |
| SON/T | 400 | 210-250V 50Hz 220-270V 60Hz | 48000 | T3 | 40 | 284/400 | 701/400 |
| SON/T | 600 | 210-250V 50Hz 220-270V 60Hz | 74000 | T3 | 40 | 284/600 | 702/600 |
| MBFU | 250 | 210-250V 50Hz 220-270V 60Hz | 12000 | T3 | 40 | 286/250M | 700/250 |
| MBFU | 400 | 210-250V 50Hz 220-270V 60Hz | 20400 | T3 | 40 | 286/250M | 700/400 |
| T.HAL | 500 | 110/130, 200/240, AC/DC | 9500 | T3 | 40 | 269/500 | Not reqd. |
| T.HAL | 1000 | 110/130, 200/240, AC/DC | 22000 | T2 | 40 | 269/1000 | Not reqd. |

Note: For 110/130 volts additional Zone 1 Transformer box required, HPS and MBFU only

Maximum Ambient of 50°C available on request.

LIGHT DISTRIBUTION

Two types of reflector can be fitted to the floodlight and with the range of lamp sources available can offer a wide selection of light output and distributions. Photometric Data available on request.

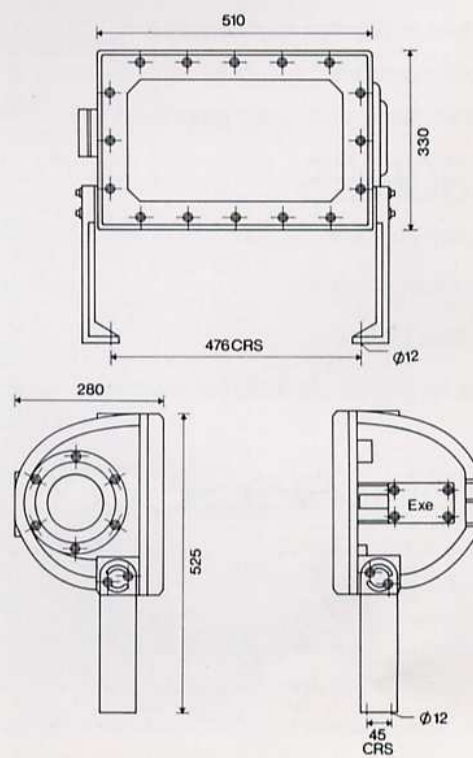
ACCESSORIES – FLOODLIGHT

- Wire Guard for added protection
- Anti-glare Shield
- P.T.F.E. protective coating
- Pole Mounting Bracket
- Swinging Jib Bracket

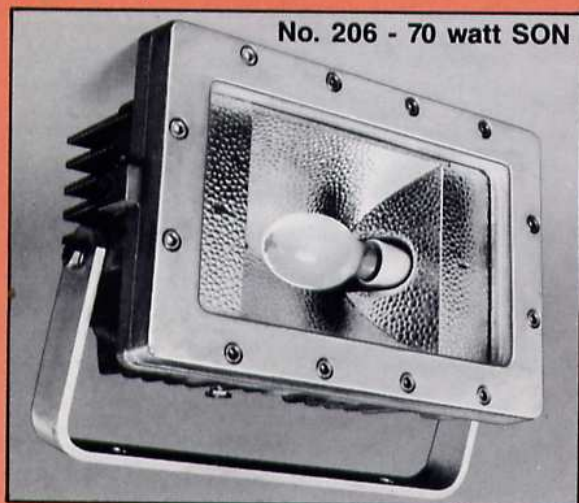
ACCESSORIES – CONTROL GEAR BOX

- P.T.F.E. protective coating
- Cable Glands for direct entry terminations

| WEIGHT | |
|------------------|------------------|
| FLOODLIGHT | CONTROL GEAR BOX |
| Aluminium 33 Kg | Aluminium 23 Kg |
| Gun Metal 101 Kg | Gun Metal 56 Kg |



CHALMIT MINI-FLOODLIGHT (EEx de)



Where high levels of lighting are required from low mounting heights the Chalmit Mini-Flood is ideal.

Manufactured from Aluminium Alloy LM6 with a protection rating of IP67 the luminaire will give long maintenance free operation in very hostile environments.

To reduce installation time and costs an increased safety (Exe) terminal chamber is fitted eliminating the requirement for expensive barrier glands.

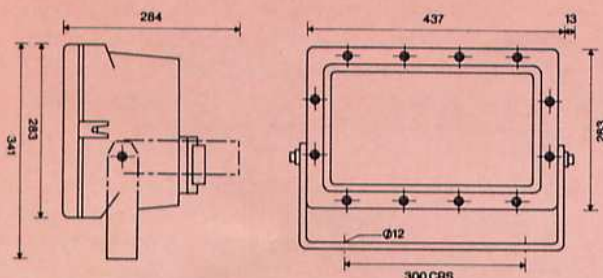
This highly versatile luminaire can also be supplied with a floor stand for Portable/Temporary lighting on a range of a.c. or d.c. voltages from 25-240v.

The Mini-Flood offers many advantages over Fluorescent luminaires;

- High lumen efficiency
- Excellent control of light on working areas
- Long lamp life and high lumen maintenance via use of HPS
- Protection IP67
- Compact size, easy to handle and store
- Highly resistant to damage and corrosion
- Looping facility standard
- Wide variety of lamps and light distributions

ACCESSORIES

- Post Mounting Bracket
- P.T.F.E. protective coating
- Protective Wire Guard
- Floor Stand for use as portable/temporary lighting



SPECIFICATION

| | |
|---------------------|---|
| TYPE OF PROTECTION | EEx de Flameproof |
| AREA CLASSIFICATION | Zone 1 and 2 Apparatus Groups IIA and IIB |
| APPARATUS STANDARD | BS.5501 Part 1, EN 50 014 Part 5, EN 50 018 Part 6, EN 50 019 |
| CERTIFICATE | BASEEFA EX 86 B 1235 |
| ENCLOSURE | Aluminium Alloy LM6 to BS.1490 or Gun Metal LG2 to BS.1400. (P.T.F.E. Coating is also available). Toughened glass window. |
| ENTRY | 2 x 20mm Metric tapped Exe entries as standard Also available 25mm metric or PG 16 to DN 40430 |
| TERMINATION | Incoming terminals suitable for looping up to 6 mm ² |
| INSTALLATION | Stirrup Mounting |
| CONTROL GEAR | Internal — Easily replaceable |
| PROTECTION | IP 67 |
| RELAMPING | Via removable front cover Anchor chain fitted to retain cover when relamping |
| PHOTOMETRIC DATA | Available on request |

| LAMP | WATTS | VOLTAGE | LAMP-HOLDER | TEMP CLASS | MAX AMB. | ORDER REF. |
|--------|-------|--------------------------------|-------------|------------|----------|------------|
| T/HAL | 100 | 120/240V AC/DC | R7s | T3 | 50 | 203/100 |
| T/HAL | 150 | 25/120/240V AC/DC | R7s | T3 | 50 | 203/150 |
| T/HAL | 200 | 30/120/240V AC/DC | R7s | T3 | 50 | 203/200 |
| T/HAL | 250 | 120/240V AC/DC | R7s | T3 | 50 | 203/250 |
| T/HAL | 300 | 120/240V AC/DC | R7s | T3 | 40 | 203/300 |
| T/HAL | 300 | 120/240V AC/DC | E40 | T3 | 50 | 209 |
| SON/T | 70 | 210-250V 50HZ 220-270V 60HZ | E27 | T3 | 50 | 204 |
| SON/TD | 70 | 210-250V 50HZ 220-270V 60HZ | RX7s | T3 | 50 | 205 |
| SON | 70 | 210-250V 50HZ 220-270V 60HZ | E27 | T3 | 50 | 206 |
| MBI | 70 | 210-250V 50HZ 220-270V 60HZ | RX7s | T3 | 50 | 205/M |

WEIGHT

| | | |
|-----------|-----|------|
| ALUMINIUM | LM6 | 20Kg |
| GUN METAL | LG2 | 51Kg |



**Floor Stand for
portable/temporary lighting**

CHALMIT 261

HIGH OUTPUT WELLGLASS

(EEx de)



**No. 261 -
400 watt SON**

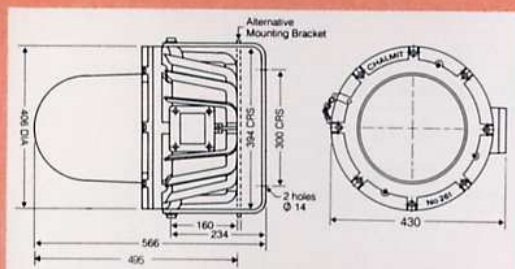
Manufactured from cast aluminium alloy LM6 with an ingress protection of IP67, the 261 is fully weatherproof giving long maintenance free operation in hostile environments such as offshore oil & gas platforms, petrochemical plants etc.

The luminaire is certified to the most recent British and European standards specifying the highest level of safety. Supplied with internal control gear for discharge sources the 261 can operate in any position.

The 261 features an increased safety (Exe) terminal chamber incorporating looping facilities allowing the use of a wide range of cables & glands. This makes installation much easier than is usually found with Exd luminaires.

ACCESSORIES

■ Protective Wire Guard



| WEIGHT | ALUMINIUM | GUN METAL |
|--------|-----------|-----------|
| HID | 28KG | 64KG |
| GLS | 22KG | 58KG |

SPECIFICATION

| | |
|-------------------------|--|
| TYPE OF PROTECTION | EEx de. |
| AREA CLASSIFICATION | Zone 1&2 apparatus gas groups IIA & IIB |
| APPARATUS STANDARD | B.S. 5501: 1977 Part 1 EN50.014 Part 5 EN50.018 Part 6 EN50.019 |
| CERTIFICATION | BASEEFA Ex 89B 1008 |
| ENCLOSURE | Aluminium alloy LM6 to B.S. 1490 or gun metal LG2 to B.S. 1400 PTFE coating available for aluminium on request. Stainless steel 316S fastenings used throughout. |
| INTERNAL REFLECTOR | High purity anodised aluminium. |
| ENTRY | Two M20 x 1.5 tapped entries as standard. |
| GLANDS | Must maintain IP rating of enclosure. Plastic glands & those for MICS should be Exe approved. |
| TERMINATION | Suitable for looping up to 2.5 mm ² as standard. Looping up to 6 mm ² available as alternative. |
| INSTALLATION | Stirrup or optional mounting strap. |
| CONTROL GEAR | Internal; easy access & capable of being replaced. |
| RELAMPING | Via removable lampglass assembly. Anchor retaining chain fitted as standard. |
| GLASS | Toughened Wellglass. |
| BURNING POSITION | Universal. |
| PROTECTION | IP67 to B.S. 5490 |
| POWER FACTOR CORRECTION | Incorporated to 0.85 minimum for discharge lamps. |
| LAMPHOLDER | E40 Porcelain |
| PHOTOMETRIC DATA | Available on request. |

| ORDER REF | VOLTAGE | LAMP LUMENS 2000 HRS | TEMP CLASS | MAX AMBIENT TEMPERATURE (MIN -20 C) |
|----------------------|--------------------------------|-------------------------|---------------|---|
| 261/150 SON | 200-250V 50HZ 220-270V 60HZ | 13850 | T4 | 40 |
| 261/250 SON | 200-250V 50HZ 220-270V 60HZ | 24800 | T4 | 40 |
| 261/400 SON | 200-250V 50HZ 220-270V 60HZ | 46500 | T4 | 40 |
| 261/250 SON/R | 200-250V 50HZ 220-270V 60HZ | 18400 | T4 | 40 |
| 261/400 SON/R | 200-250V 50HZ 220-270V 60HZ | 33000 | T4 | 40 |
| 261/250 MBFU | 200-250V 50HZ 220-270V 60HZ | 12000 | T4 | 40 |
| 261/400 MBFU | 200-250V 50HZ 220-270V 60HZ | 20400 | T4 | 40 |
| 261/250 MBFR | 200-250V 50HZ 220-270V 60HZ | 11000 | T4 | 40 |
| 261/400 MBFR | 200-250V 50HZ 220-270V 60HZ | 18000 | T4 | 40 |
| 261/250 MBI | 200-250V 50HZ 220-270V 60HZ | 16000 | T4 | 40 |
| 261/400 MBI | 200-250V 50HZ 220-270V 60HZ | 27000 | T4 | 40 |
| 261/300 GLS | 110/240 AC/DC | 4300 | T4 | 40 |
| 261/500 GLS | 110/240 AC/DC | 7700 | T4 | 40 |

NOTE: i) Lumens shown are for guidance and may vary between lamps of different manufacture.

CHALMIT 216 LOW WATTAGE WELLGLASS (EEx de)



No. 216 - 70 watt SON



A robust compact pendant ideal for localised lighting. BASEEFA & EN certified for use with HID and GLS lamps.

The luminaire is manufactured from corrosion resistant Aluminium Alloy LM6 and is protected to IP67 guaranteeing long maintenance free operation in hostile conditions.

To reduce installation time and costs the 216 features an increased safety (Exe) terminal chamber eliminating the requirement for expensive barrier glands.

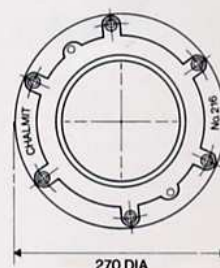
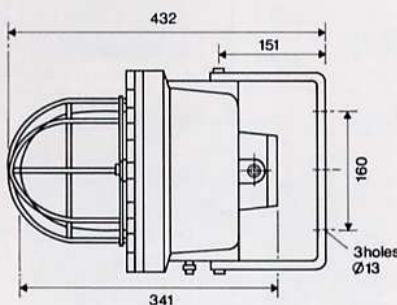
| SPECIFICATION | |
|---------------------|---|
| TYPE OF PROTECTION | EEx de Flameproof |
| AREA CLASSIFICATION | Zone 1 & 2 groups IIA IIB |
| APPARATUS STANDARD | BS.5501 Part 1, 5 & 6 EN50014, EN50018, EN50019 |
| CERTIFICATION | BASEEFA Ex 86B1236 |
| ENCLOSURE | Aluminium Alloy LM6 or Gun Metal LG2. |
| INTERNAL REFLECTOR | Anodised Aluminium |
| ENTRY | 2x20mm Exe entries |
| TERMINATION | Incoming terminals suitable for looping up to 6mm ² |
| INSTALLATION | Stirrup mounting |
| CONTROL GEAR | Internal, easily replaced |
| RELAMPING | Via removable front cover |
| GLASS | Toughened wellglass |
| BURNING POSITION | Universal |
| PROTECTION | IP67 |
| PHOTOMETRIC DATA | Available on request |

| LAMP | WATTS | VOLTAGE | LUMENS | TEMP CLASS | MAX AMB. | ORDER REF. |
|----------|---------|--------------------------------|-----------|------------|----------|------------|
| SON | 70 | 210-250V 50Hz 220-270V 60Hz | 5300 | T4 | 40 | 216/70 |
| SON/R | 70 | 210-250V 50Hz 220-270V 60Hz | 4000 | T3 | 40 | 216/70R |
| MBFU | 80 | 210-250V 50Hz 220-270V 60Hz | 3800 | T4 | 40 | 216/80 |
| TUNGSTEN | 60-100 | 24, 110, 250 AC/DC | 700-1330 | T4 | 55 | 216/100 |
| TUNGSTEN | 150-200 | 110, 240 AC/DC | 2140-2880 | T3 | 55 | 216/200 |
| PAR.38 | 120-150 | 24, 110, 250 AC/DC | 1800 | T3 | 55 | 216/PAR |

| WEIGHT | ALUMINIUM | GUN METAL |
|--------|-----------|-----------|
| HID | 12 Kg | 25Kg |
| GLS | 10.5Kg | 23.5Kg |

ACCESSORIES

- P.T.F.E. coating
- External Reflectors
- Pole Mounting Bracket
- Protective Wire Guard



CHALMIT

MAINS AND EMERGENCY WELLGLASS (EExde) No. 216/PL



No. 216 - 9 watt

CHALMIT have increased their range of Exd luminaires to include the use of high efficiency compact fluorescent lamps.

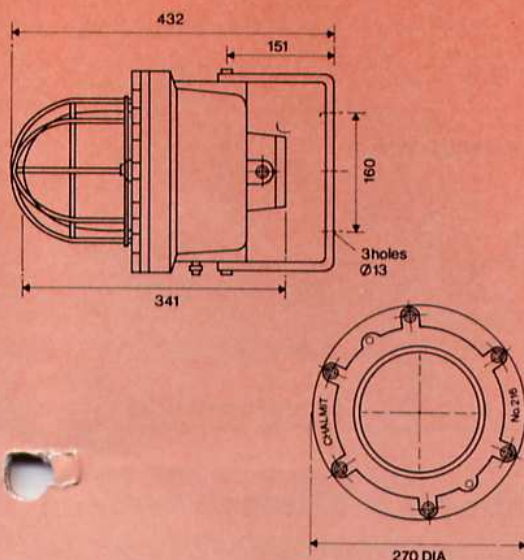
The 216 accommodates PL lamps from 5—13 watts that will operate on a range of AC or DC voltages from 12—240V.

This enables the luminaire to be used for emergency lighting. The PL lamps will operate via a changeover (CO—MFR) relay so that the lamp automatically switches from mains power to central battery power when a local mains failure occurs.

ACCESSORIES

- Various lamp colours can be offered
- P.T.F.E. Protective Coating
- Protective Wire Guard
- Pole Mounting Bracket

| WEIGHT | ALUMINIUM | GUN METAL |
|--------|-----------|-----------|
| | 10.5Kg | 23.5Kg |



| SPECIFICATION | |
|---------------------|---|
| TYPE OF PROTECTION | EEx de Flameproof |
| AREA CLASSIFICATION | Zone 1 & 2 groups IIA IIB |
| APPARATUS STANDARD | BS.5501 Part 1, 5 & 6 EN50014, EN50018, EN50019 |
| CERTIFICATION | BASEEFA Ex 86B1236 |
| ENCLOSURE | Aluminium Alloy LM6 or Gun Metal LG2. |
| INTERNAL REFLECTOR | Anodised Aluminium |
| ENTRY | 2x20mm Exe entries |
| TERMINATION | Incoming terminals suitable for looping up to 6mm ² |
| INSTALLATION | Stirrup mounting |
| CONTROL GEAR | Electronic ballast |
| RELAMPING | Via removable front cover, |
| GLASS | Toughened wellglass |
| BURNING POSITION | Universal |
| PROTECTION | IP67 |
| PHOTOMETRIC DATA | Available on request |

| ORDER REF | VOLTAGE | TEMP CLASS | MAX AMBIENT TEMPERATURE (MIN-5) |
|------------------|--------------|------------|---------------------------------|
| 216/5PL | 12—240 AC/DC | T6 | 55 |
| 216/7PL | 12—240 AC/DC | T6 | 55 |
| 216/9PL | 12—240 AC/DC | T6 | 55 |
| 216/10PLC | 12—240 AC/DC | T6 | 55 |
| 216/13PLC | 12—240 AC/DC | T6 | 55 |

ADVANTAGES

- * OPERATE ON AC OR DC
- * 5 TIMES THE LIFE OF TUNGSTEN LAMPS
- * 80% LESS POWER CONSUMPTION COMPARED TO TUNGSTEN LAMPS
- * REDUCED MAINTENANCE DUE TO INCREASED LAMP CHANGE INTERVALS
- * HIGH EFFICIENCY ELECTRONIC CONTROL GEAR

CHALMIT E.L.U.1 EMERGENCY LIGHT UNIT – INTRINSICALLY SAFE (Exib)

The CHALMIT E.L.U. is designed for use in hazardous or safe areas where a hazard may occur in an emergency situation. When an emergency occurs i.e. a gas leak, certain areas classified safe will become hazardous and all non-certified lighting will be extinguished. Typical areas where this may occur are offshore accommodation modules, i.e. Cabins, Washrooms, Lifts, etc.

In the event of such an emergency, escape lighting must be provided and the CHALMIT E.L.U. is specifically designed for this application. Being intrinsically safe, the unit offers the highest possible protection against potential explosions.

This small compact Emergency Light Unit eliminates the requirement for unattractive bulky Exe fluorescents with emergency packs allowing the use of lower cost, more visually pleasing, standard luminaires within the living areas.

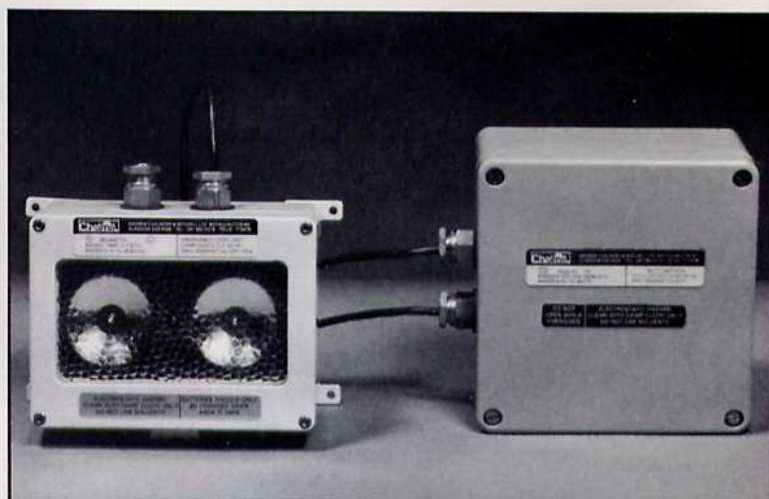
OPERATION

Through unique design features, the unit offers great versatility. The E.L.U. is a battery operated, low power emergency luminaire which in most applications will be operated in conjunction with the intrinsically safe Mains Tell Tale unit. The MTT acts as a mains failure sensor and when the mains supply is interrupted, will switch on the emergency lighting but only if it is dark. This is achieved by a photocell which overrides the mains failure signal if daylight is present, and conserves the battery life. Where lighting is on constantly, the E.L.U. may be installed on its own without the MTT unit, and will switch on only in the event of light failure.

Any reasonable number of E.L.U.'s may be connected to the MTT by use of the looping-in Terminals.

| ORDER REF. & ACCESSORIES | ORDER REF. |
|---|------------|
| E.L.U.1 | XELU1-0001 |
| MTT 1 | XMTT1-0001 |
| Cable 1mm ² Twin Core PVC Colour Coded BLUE for intrinsically safe | E0414-0006 |
| Glands Exe plastic gland Size M 16 | E0422-0012 |
| Bracketry to suit suspended metal ceiling complete with finishing aperture | SELU1-0001 |

 a Pillar electrical company



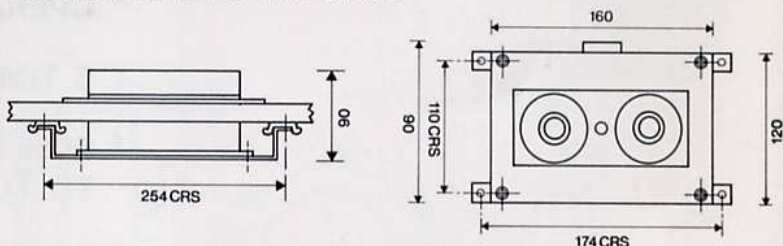
INTRINSICALLY SAFE EMERGENCY LIGHT UNIT (E.L.U.1)

| SPECIFICATION | |
|--------------------|--|
| ENCLOSURE | Polycarbonate |
| PROTECTION | IP 54 |
| BATTERY | 6 Volt Alkaline (4 x 1.5V). Battery replaceable |
| BATTERY SHELF LIFE | 2 Years |
| DURATION | 35 hrs (Low warning light comes on after 16 hrs) |
| LAMPS | 2 x 0.65 = 1.3 watts quartz halogen |
| WEIGHT | 1.6 Kg |
| INSTALLATION | Wall, ceiling or recessed |
| CERTIFICATION | BASEEFA Ex 85B2162 EExib IIC T3 |

INTRINSICALLY SAFE MAINS TELL TALE UNIT (MTT 1)

| SPECIFICATION | |
|--------------------|------------------------------|
| ENCLOSURE | Polyester |
| PROTECTION | IP 54 |
| TRANSFORMER | 2 VA |
| INPUT VOLTAGE | 270V 50/60Hz maximum |
| OUTPUT " MAX : OUT | 7 volts |
| " MAX : OUT | 780 mA |
| WEIGHT | 3 Kg |
| CERTIFICATION | BASEEFA Ex 85271 Exib IIC T3 |

BRACKETRY TO SUIT SUSPENDED CEILING.



Chalmit

Andrew Chalmers & Mitchell Limited

443-447 Hillington Road, Glasgow G52 4QW, Scotland, U.K.

Telephone: 041-882 5553 041-882 3318

Telex: 779378 CHALMT G Fax: 041-883 3704

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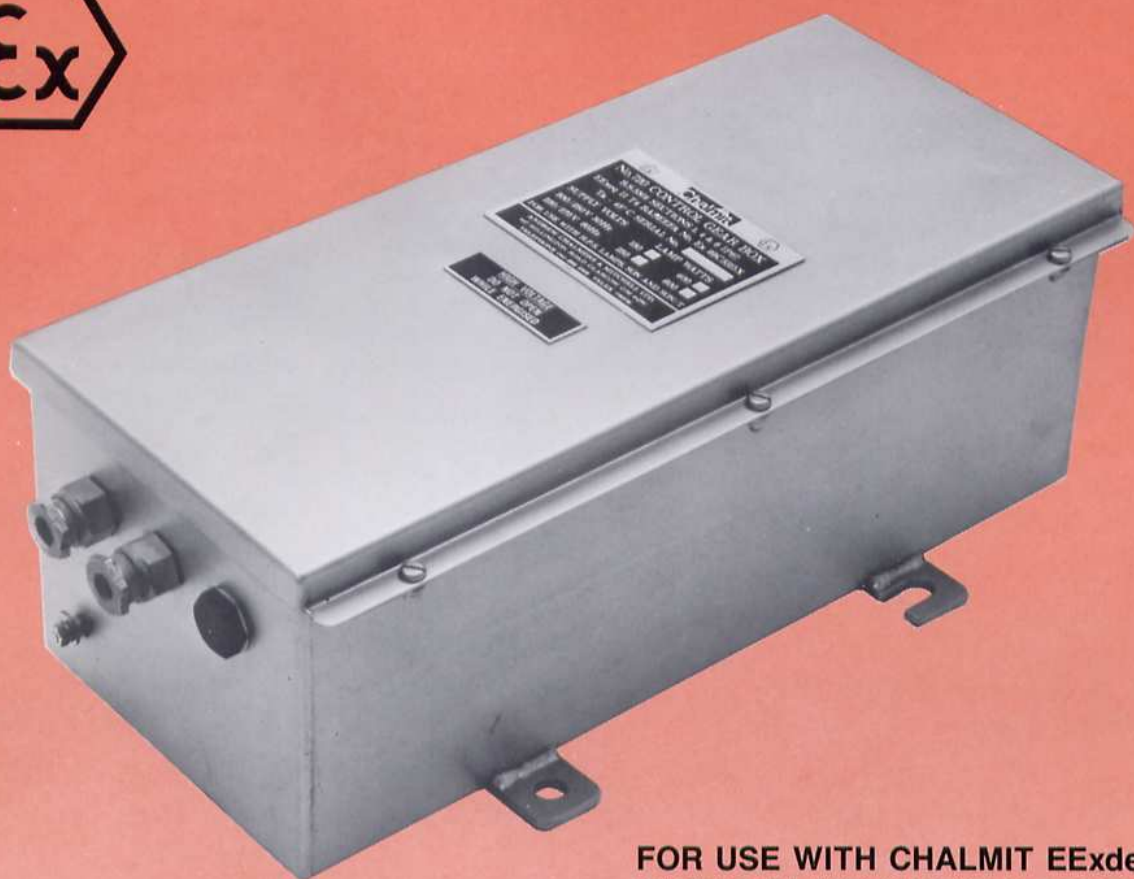
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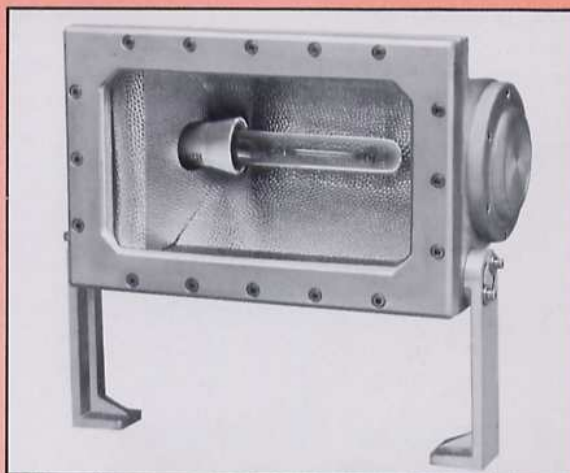
Telex: 779378 CHALMT G Fax: 041-883 3704


ZONE1 NEW 720 SERIES EExe CONTROL GEAR BOX



**FOR USE WITH CHALMIT EExde
MKII HIGH INTENSITY FLOODLIGHT
No. 284/6**

- **STAINLESS STEEL**
- **LIGHTWEIGHT**
- **EASY TO INSTALL & MAINTAIN**
- **150-600w HID**



B.S. 5750 Pt. 1 Approved Firm 

CHALMIT No. 720 SERIES EExe CONTROL GEAR BOX



A unique new range of lightweight Stainless Steel Exe control gear boxes for use as an alternative to the Chalmit No. 700 series Exd control gear boxes.

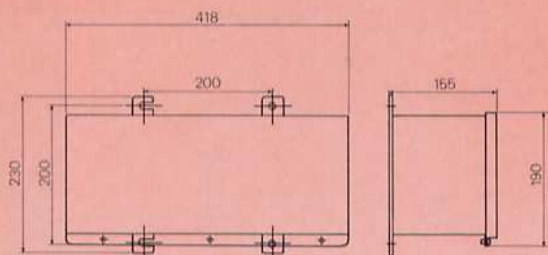
The 720 series is designed for use with the Chalmit MK II High Intensity Floodlight No. 284/6.

As with all Chalmit Exd luminaires the floodlight incorporates Exe cable entries and now also features an integral ignitor.

The benefit of this arrangement is that it allows the new 720 series Exe control gear box to be mounted at greater distances from the floodlight and also eliminates the requirement for expensive high voltage cable and Exd barrier glands. This makes installation and maintenance much easier and less costly than usually associated with Zone 1 electrical equipment.

ADDITIONAL FEATURES

- Control Gear — Easy access, can be replaced
- Protection — IP67
- Remote Gear — Increases operating life & performance
- 316 grade stainless steel construction



SPECIFICATION

| | |
|-------------------------|--|
| TYPE OF PROTECTION | EEx eq II T4. |
| AREA CLASSIFICATION | Zone 1 & 2 apparatus gas group II. |
| APPARATUS STANDARD | B.S. 5501: 1977 Parts 1, 5 & 6 EN50 014, EN50 017, EN50 019. |
| CERTIFICATION | BASEEFA Ex 89C3315X. |
| ENCLOSURE | 316 Grade stainless steel. |
| ENTRY | Three M20 x 1.5 tapped entries. |
| TERMINATION | Suitable for looping up to 6mm ² . |
| GLANDS | Must maintain IP rating of enclosure. Plastic glands and those for MICS should be Exe approved. |
| INSTALLATION | Easy installation facility (see drawing). |
| CONTROL GEAR | Easy access & easily replaced. |
| OPERATING POSITION | Cable entries on underside if mounted vertically. |
| PROTECTION | IP67 to B.S. 5490. |
| POWER FACTOR CORRECTION | Incorporated to 0.85 minimum. |

| ORDER REF BOX | ORDER REF FLOOD | LAMP | VOLTAGE | TEMP CLASS | MAX AMBIENT TEMP | WEIGHT Kg |
|---------------|-----------------|------|--------------------------------|------------|------------------|-----------|
| 720-250 | 286-250M | MBFU | 200-250V 50HZ 220-270V 60HZ | T4 | 45 | 10.0 |
| 720-400 | 286-400M | MBFU | 200-250V 50HZ 220-270V 60HZ | T4 | 45 | 10.9 |
| 721-150 | 284/6-150 | HPS | 200-250V 50HZ 220-270V 60HZ | T4 | 45 | 9.0 |
| 721-250 | 284/6-250 | HPS | 200-250V 50HZ 220-270V 60HZ | T4 | 45 | 10.6 |
| 721-400 | 284/6-400 | HPS | 200-250V 50HZ 220-270V 60HZ | T4 | 45 | 11.2 |
| 721-600 | 284-600 | HPS | 200-250V 50HZ 220-270V 60HZ | T4 | 45 | 15.3 |
| 722-250 | 284-250M | MBI | 200-250V 50HZ 220-270V 60HZ | T4 | 45 | 10.6 |
| 722-400 | 284-400M | MBI | 200-250V 50HZ 220-270V 60HZ | T4 | 45 | 11.2 |



Andrew Chalmers & Mitchell Limited

443-447 Hillington Road, Glasgow G52 4QW, Scotland, U.K.

Telephone: 041-882 5553 041-882 3318

Telex: 779378 CHALMT G Fax: 041-883 3704

FLAMEPROOF PORTABLE AND TEMPORARY LIGHTING K Mk IV



FLAMEPROOF FLUORESCENT HAND INSPECTION LAMP Exd 11B T6 EX82086X Ex

DESCRIPTION

The type K Mk IV is a lightweight, flameproof polycarbonate hand inspection lamp and is approved by BASEEFA to the latest requirements of BS 4683 Part 2 — 1971, for use in Zone 1 areas. BASEEFA approval is Exd 11B T6.

Environmental Protection IP 65 can be achieved if required.

CONSTRUCTION

The handlamp consists of an approved polycarbonate tube, with a plug bearing the hook assembly, screwed and cemented at one end, and a brass ferrule forming the flame path, screwed and cemented at the other end.

A chassis is mounted in the enclosure, with two spring clips which retain the 8w, 300 mm fluorescent tube, fitted with bi-pin connectors.

On the AC version a starter is fitted in the handle cavity, and in the AC/DC and DC versions this is substituted by an inverter. 3 core approved cable which is screened and double sheathed is used. The chassis has an earthing point at which both the earth and screening are terminated. A strain resistant cable clamp is fitted.

As the handlamp has direct entry cable, a minimum of 3 metres of cable must be supplied fitted; any length in excess is acceptable.

The polycarbonate tube which is virtually unbreakable is protected from scratching and grazing by a clear PVC sleeve. The handle and top of the lamp are fitted with PVC buffers for added protection.

As the K Mk IV is not factory sealed it can be maintained and repaired by the user. Full product support is provided.

TECHNICAL DETAILS

| | |
|------------------|---|
| Overall weight | 1 Kg (excluding cable) |
| Overall diameter | 50 mm |
| Overall length | 520 mm |
| Voltages | 12V DC 24V AC/DC 24V AC 50V AC 110V AC 240V AC |
| | Inverter included in lamp. No separate control box required. |
| * | Starter included in lamp. Remote control box either FLP or Non FLP required. |
| Cable | 3 core 1 mm ² (32/0.2) PVC insulated, bedded in sheath with Cu. wire screen and PVC oversheath. Minimum 3 metre to be fitted at all times. Westair HP 242. |

* Note: Nominal 24V AC/DC. Range at Ambient (10° to 20°) — 20V to 28V.

Q150 FLAMEPROOF SERVICE LAMP

A versatile luminaire which can be used as a flood or spot lamp. Environmental Protection IP 65.



DESCRIPTION

The type Q150 Flameproof Service Lamp has been designed to conform to the requirements of BSS 229 1957, and BSS 889 March 1965. It has been approved in accordance with the terms of the Department of Energy Testing Memorandum No. 4 for use in Division 1 (Zone 1) areas where flammable gases and vapours in Groups II and IIIA of Table 1 of BSS 229 are present.

The enclosure is classified in temperature range 'X' of appendix 'E' BSS 889 (max. Temp. rise 125°C) and is therefore unsuitable for use in cellulose atmospheres.

CONSTRUCTION

The lamp body is constructed of aluminium alloy, specification LM6 selected for its physical properties and resistance to corrosion, and is finished in blue stove enamel. The cable enters through an approved type gland. The terminal barrier contains clamping points for cable, strain cord, screening and insulation.

Standard cable type HP 155, is supplied in lengths to meet customers specific requirements, and must be of the approved type.

The lamp may be supported as a fixture, mounted on a portable stand or tripod and is fitted with a carrying handle. A cadmium plated steel wireguard is fitted for additional protection.

TECHNICAL DETAILS

| | Q150 | JX1 |
|------------------------|--|--|
| Lamp Length | 305 mm (12 in) | 216 mm (8½ in) |
| Lamp diameter | 228.6 mm (9 in) | 101.6 mm (4 in) |
| Weight | N/A | 1.24 Kg (2¾ lb) (excluding cable) |
| Lamp type | ES.24, 110, 240/250V, Reflector PAR, 38 Saltbeam Spot-Flood, Quartz halogen 12V 55W, and 24V 70W available with conversion kit | SBC 12, 24, 110, or 230/250V AC/DC |
| Lamp wattage | 150W, 70W and 55W | 25, 36 or 40 |
| Cable type | 3 core screened, 2.0 mm ² laid up with 32 Kg (70 lb) Strain Cord. Tinned copper braided, PVC sheathed overall to approved standard Westair HP 155 | 3 core 0.75 mm ² Tinned copper PVC. Insulated. 250V CMA Grade, Laid up with 32 Kg strain cord. Tinned copper braid screened; PVC sheathed overall |
| Attachments (optional) | Tripod, Extension piece Wishbone bracket Floor stand | Reflector Tripod Securing bracket |

Note: To comply with terms of certification Cable as specified above must always be used. Design rating and performance to BSS 889 (March 1965). Flameproof enclosure to BSS 229 (1957). If this luminaire is used as a fixed unit then an external earth is required.

JX1 FLAMEPROOF HAND INSPECTION LAMP

FLP 5488.



DESCRIPTION

A lightweight, flameproof handlamp. The type JX1 portable Flameproof Handlamp has been designed to conform to the requirements of BSS 229 1957, and BSS 889 March 1965. It has been approved in accordance with the terms of the Department of Energy Testing Memorandum No. 4 for use in Division 1 (Zone 1) areas where inflammable gases and vapours in Groups II and IIIA of Table 1 of BSS 229 are present.

The enclosure is classified in temperature range 'X' of appendix 'E' — BSS 889 (maximum temperature rise 125°C) and can be used in any attitude. The standard handlamp is not suitable for use in cellulose atmospheres.

CONSTRUCTION

The enclosure comprises a Type A' toughened wellglass, cemented and retained in the LM6 aluminium alloy body. A protective steel cadmium plated guard is screwed to the wellglass retaining ring.

The cable entry is fitted with a compression gland and a PVC sleeve to prevent kinking at this point.

The handle exterior and mounting flange are PVC coated for heat insulation.

Cable of the correct specifications can be fitted as required. A 3-pin earthed plug must be used. Plug and socket must be of an approved Flameproof type when used in hazardous areas.

Replacement main assemblies are available to order

Chalmit

Andrew Chalmers & Mitchell Limited

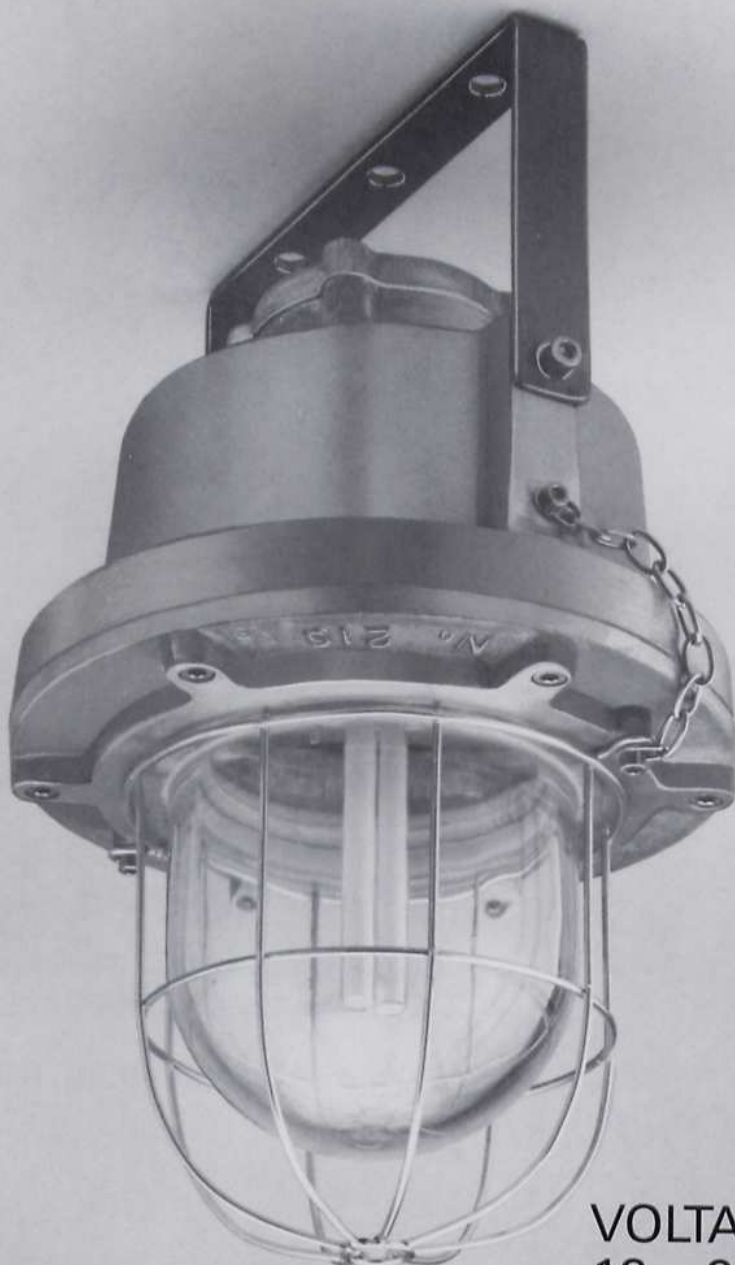
443-447 Hillington Road, Glasgow G52 4QW, Scotland, UK.

Telephone 041 882 5553 041 882 3318

Telex 779378 CHALMIT G Fax 041 883 3704

ZONE 1 MAINS AND EMERGENCY WELLGLASS No. 216

FLAMEPROOF LUMINAIRE USING NEW COMPACT
FLUORESCENT LAMPS GIVING AN 80% POWER
SAVING OVER TUNGSTEN & 5 TIMES THE LIFE.



VOLTAGE RANGE
12—240V AC/DC

CHALMIT

MAINS AND EMERGENCY WELLGLASS (EExde) No. 216/PL

No. 216 - 9 watt



Chalmit have increased their range of Exd luminaires to include the use of high efficiency compact fluorescent lamps.

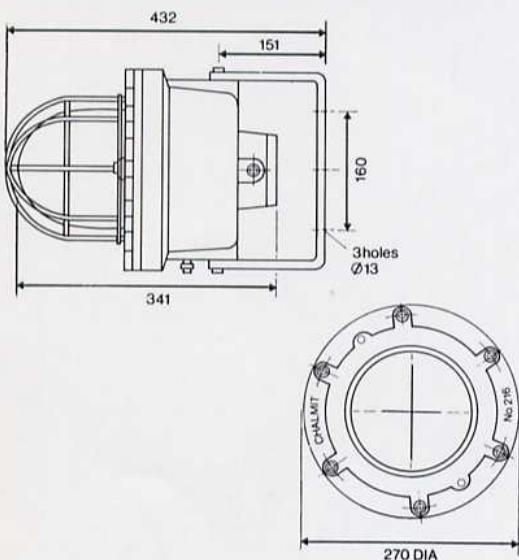
The 216 accommodates PL lamps from 5–13 watts that will operate on a range of AC or DC voltages from 12–240V.

This enables the luminaire to be used for emergency lighting. The PL lamps will operate via a changeover (CO–MFR) relay so that the lamp automatically switches from mains power to central battery power when a local mains failure occurs.

ACCESSORIES

Various lamp colours can be offered
P.T.F.E. Protective Coating
Protective Wire Guard
Pole Mounting Bracket

| WEIGHT | ALUMINIUM | GUN METAL |
|--------|-----------|-----------|
| | 10.5Kg | 23.5Kg |



| SPECIFICATION | |
|---------------------|---|
| TYPE OF PROTECTION | EEx de Flameproof |
| AREA CLASSIFICATION | Zone 1 & 2 groups IIA IIB |
| APPARATUS STANDARD | BS.5501 Part 1, 5 & 6 EN50014, EN50018, EN50019 |
| CERTIFICATION | BASEEFA Ex 86B1236 |
| ENCLOSURE | Aluminium Alloy LM6 or Gun Metal LG2. |
| INTERNAL REFLECTOR | Anodised Aluminium |
| ENTRY | 2x20mm Exe entries |
| TERMINATION | Incoming terminals suitable for looping up to 6mm ² |
| INSTALLATION | Stirrup mounting |
| CONTROL GEAR | Electronic ballast |
| RELAMPING | Via removable front cover, |
| GLASS | Toughened wellglass |
| BURNING POSITION | Universal |
| PROTECTION | IP67 |
| PHOTOMETRIC DATA | Available on request |

| ORDER REF | VOLTAGE | TEMP CLASS | MAX AMBIENT TEMPERATURE (MIN-5) |
|------------------|--------------|------------|---------------------------------|
| 216/5PL | 12–240 AC/DC | T6 | 55 |
| 216/7PL | 12–240 AC/DC | T6 | 55 |
| 216/9PL | 12–240 AC/DC | T6 | 55 |
| 216/10PLC | 12–240 AC/DC | T6 | 55 |
| 216/13PLC | 12–240 AC/DC | T6 | 55 |

ADVANTAGES

- * OPERATE ON AC OR DC
- * 5 TIMES THE LIFE OF TUNGSTEN LAMPS
- * 80% LESS POWER CONSUMPTION COMPARED TO TUNGSTEN LAMPS
- * REDUCED MAINTENANCE DUE TO INCREASED LAMP CHANGE INTERVALS
- * HIGH EFFICIENCY ELECTRONIC CONTROL GEAR



Chalmit

Andrew Chalmers & Mitchell Limited

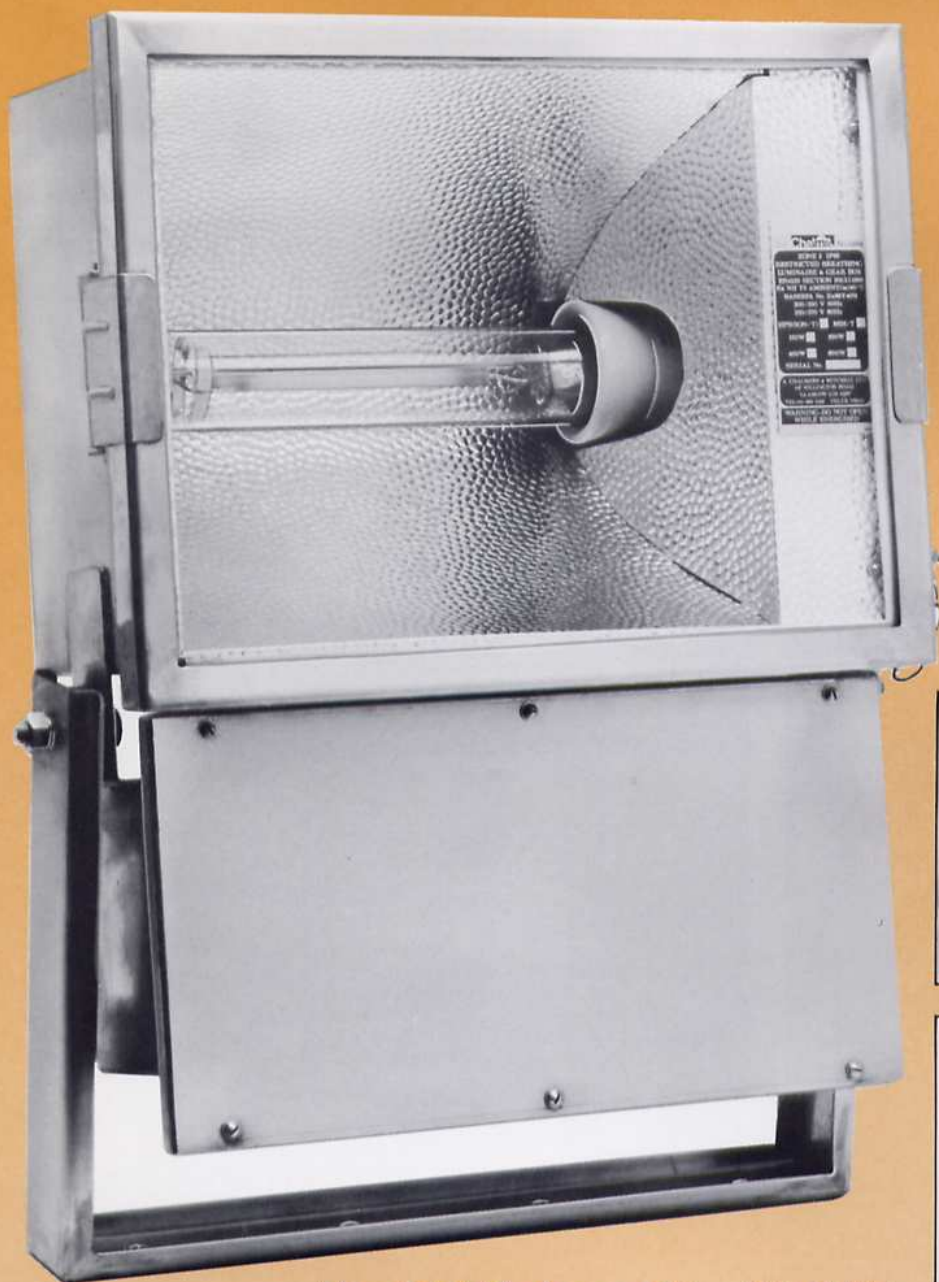
443-447 Hillington Road, Glasgow G52 4QW, Scotland, U.K.

Telephone: 041-882 5553 041-882 3318

Telex: 779378 CHALMT G Fax: 041-883 3704

ZONE 2 HAZARDOUS AREA LIGHTING RANGE

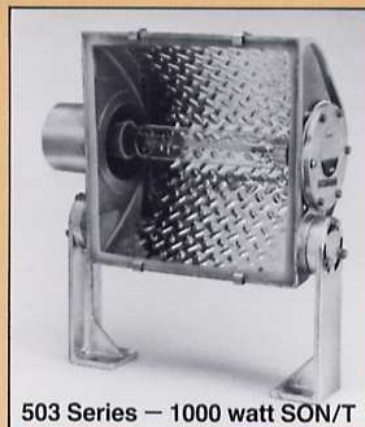
ExN



New 2000 Series — 600 watt SON/T

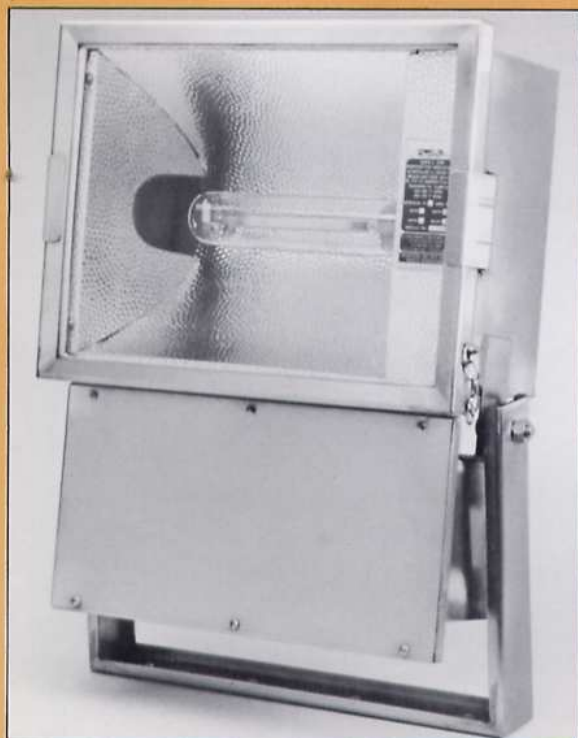


400 Series — 70 watt SON



503 Series — 1000 watt SON/T

THE NEW CHALMIT 2000 SERIES ZONE 2 FLOODLIGHT (ExN)



A new generation of floodlights for Zone 2 (ExN) hazardous areas.

CHALMIT'S unique experience in manufacturing high quality lighting for hazardous areas has resulted in the introduction of the most advanced Zone 2 floodlight available.

No other manufacturer can offer such high levels of performance together with robust construction and ease of maintenance and installation.

Fully certified to the latest BASEEFA standards the 2000 series is now the first choice for Zone 2 floodlighting.

The floodlight is a compact self-contained unit, manufactured from Marine Grade Stainless Steel ensuring it can be used in the worst possible salt laden or chemically polluted atmospheres without rusting or corroding. This combined with an ingress protection of IP 67 makes the New 2000 Series ideal for use on offshore oil and gas drilling and production platforms and onshore petro-chemical and pharmaceutical industries, where there is a remote danger of a hazardous atmosphere occurring.

Through advanced design techniques even at maximum wattage (600 watt), the floodlight can operate in an ambient up to 40°C with a surface temperature classification of T3. This, together with its universal burning position*, is unique for a product of this type giving great flexibility in operations.

Where a stainless steel high performance floodlight is preferred, but not for Zone 2 areas, a standard weatherproof version is available.

- **Certified to the most recent and stringent 1986 British Standard BS.4533 Section 102.51:1986**
- **Stainless Steel construction, highly corrosion resistant**
- **Totally Weatherproof to IP 67**
- **Up to 600 watt SON/T**
- **Universal operating position***
- **2 quick release fasteners for ease of relamping and maintenance**
- **Integral control gear**
- **Surface temperature T3, Max. Ambient temperature 40°C**

SPECIFICATION - FLOODLIGHT

| | |
|---------------------|---|
| TYPE OF PROTECTION | ExN |
| AREA CLASSIFICATION | Zone 2 |
| APPARATUS STANDARD | BS.4533 Section 102.51: 1986 |
| CERTIFICATE | BASEEFA Ex 88Y4074 X |
| ENCLOSURE | 316 Grade Stainless Steel with toughened glass window |
| REFLECTOR | High purity anodised aluminium — plain or patterned |
| ENTRY | Via 2 × 20 mm holes |
| TERMINATION | Incoming terminals suitable for looping up to 4 mm ² cable |
| INSTALLATION | Stirrup Mounting |
| RELAMPING | Via 2 quick release fasteners |
| CONTROL GEAR | Integral (can be reversed) |
| BURNING POSITION | Universal |
| PROTECTION | IP 67 |
| WEIGHT | 24 Kg |
| AIMING QUADRANT | For accurate aiming adjustment |

* If lamp axis not horizontal please operate cap down.

| 2000 SERIES | | | | | | |
|-------------|-------|------------------------------|---------------------------|----------|--------|-----------|
| LAMP | WATTS | VOLTAGE | LAMP LUMENS (2000 HRS) | T. CLASS | t.AMB. | TYPE NO. |
| SON/T | 150 | 200-250 50Hz 220-270 60Hz | 14350 | T3 | 40°C | 2484/150 |
| SON/T | 250 | 200-250 50Hz 220-270 60Hz | 27000 | T3 | 40°C | 2484/250 |
| SON/T | 400 | 200-250 50Hz 220-270 60Hz | 48000 | T3 | 40°C | 2484/400 |
| SON/T | 600 | 200-250 50Hz 220-270 60Hz | 74000 | T3 | 40°C | 2484/600 |
| SON | 150 | 200-250 50Hz 220-270 60Hz | 13850 | T3 | 40°C | 2486/150 |
| SON | 250 | 200-250 50Hz 220-270 60Hz | 24800 | T3 | 40°C | 2486/250 |
| SON | 400 | 200-250 50Hz 220-270 60Hz | 46500 | T3 | 40°C | 2486/400 |
| MBFU | 250 | 200-250 50Hz 220-270 60Hz | 12000 | T3 | 40°C | 2486/250M |
| MBFU | 400 | 200-250 50Hz 220-270 60Hz | 20400 | T3 | 40°C | 2486/400M |
| MBIT | 250 | 200-250 50Hz 220-270 60Hz | 15500 | T3 | 40°C | 2484/250M |
| MBIT | 400 | 200-250 50Hz 220-270 60Hz | 20000 | T3 | 40°C | 2484/400M |

LIGHT DISTRIBUTION

Two types of reflector can be fitted which, together with the many lamp types available, offer a wide range of light output and distributions.

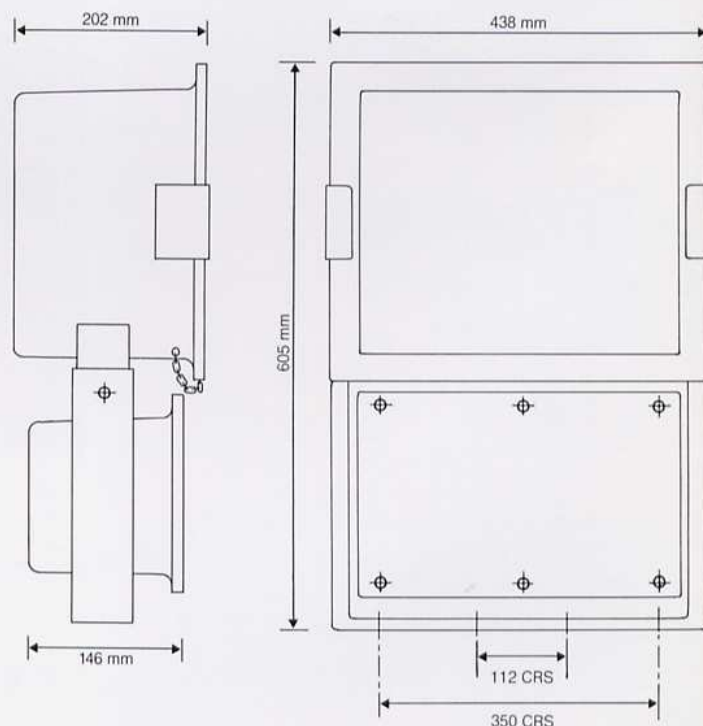
Photometric data available on request.

ACCESSORIES

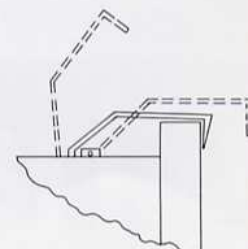
- Pole Mounting Bracket
- Anti-Glare Shield
- Protective Wire Guard

| WEIGHT | |
|------------|-------|
| FLOODLIGHT | 24 Kg |

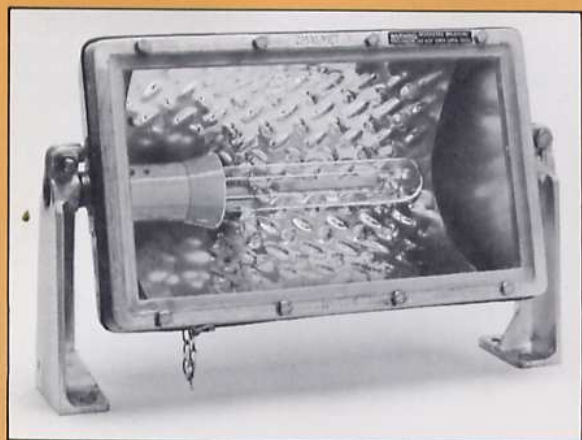
NOTE: Lamp Lumens shown are for guidance only and may vary between lamp manufacturers.



Operation of
Quick Release
Fasteners



CHALMIT 400 SERIES – ZONE 2 (ExN) HEAVY DUTY FLOODLIGHTS



Continuing CHALMIT'S tradition of great versatility in hazardous area lighting, the 400 Series is unique in offering Tungsten Halogen and 70 watt High Pressure Sodium floodlighting for Zone 2 areas.

The 70 watt HPS floodlight is an ideal alternative to fluorescent luminaires as it is designed for use at low mounting heights due to the wide angle/low glare concept utilised.

For discharge lighting, control gear is supplied in a separate 500 Series Stainless Steel Control Gear Box, except the 70 watt HPS, which has internal control gear.

High Pressure Sodium luminaires can be supplied with integral ignitors, allowing the gear box to be mounted further from the floodlight and eliminating the requirement for expensive high voltage cable.

The 400 Series, with a track record second to none, is totally weatherproof to IP67 and renowned for its solid construction of corrosion-resistant Aluminium Alloy LM6 or Gun Metal LG2.

LIGHT DISTRIBUTION

Several beam distributions are available. Photometric Data available on request.

ACCESSORIES

- Protective PTFE Coating
- Swinging Jib Bracket
- Anti-Glare Shield
- Wire Guard
- Integral Ignitor (HPS)
- Chalmit 4891 Cable

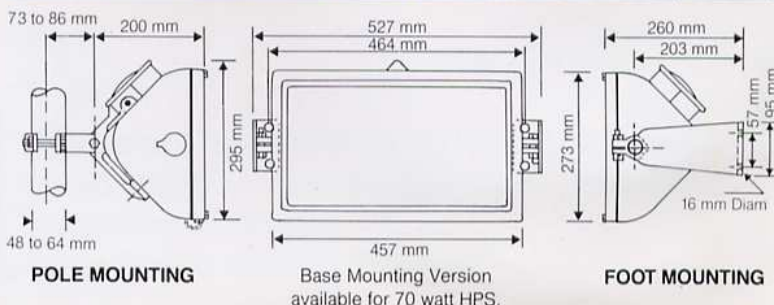
* Lamp Lumens are for guidance only and may vary between lamp manufacturers.

| WEIGHT | |
|-------------------|----------|
| ALUMINIUM | GUNMETAL |
| 10 Kg | 30 Kg |
| 70 watt HPS 14 Kg | 34 Kg |

SPECIFICATION – FLOODLIGHT

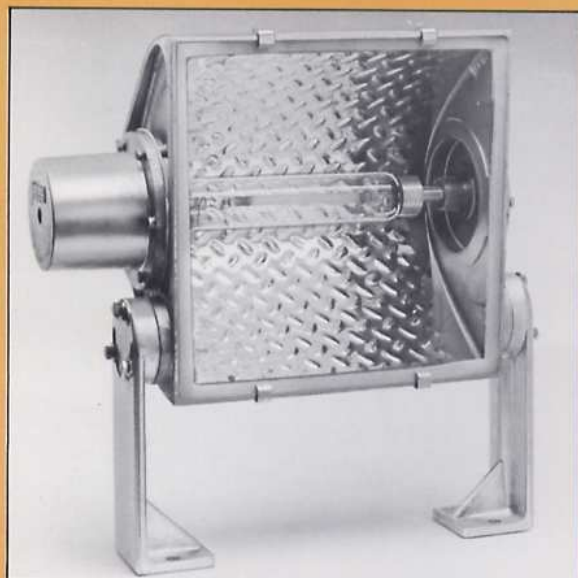
| | |
|---------------------|---|
| TYPE OF PROTECTION | ExN |
| AREA CLASSIFICATION | Zone 2 |
| APPARATUS STANDARD | BS.4533 Part 2 Section 2:1 1976 |
| CERTIFICATE | BASEEFA Ex 78099 X, 70 watt HPS Ex 83010 |
| ENCLOSURE | Marine Grade Aluminium Alloy LM6 or Gun Metal LG2 |
| REFLECTOR | High Purity Anodised Aluminium, plain or patterned |
| ENTRY | Tapped entry via 20 mm hole. (Looping on 70W SON.) |
| TERMINATION | Incoming terminal suitable for up to 4 mm ² cable |
| INSTALLATION | Pole or foot mounted |
| RELAMPING | Via removable front cover. Supplied with Anchor chain to retain cover |
| CONTROL GEAR | i) 70 watt SON Internal ii) All other discharge lamps see CHALMIT 500 Series ExN Control Gear Box (see over) iii) Floodlight can be supplied with integral ignitor for H.P.S. |
| BURNING POSITION | Universal |
| PROTECTION | IP 67 |

| LAMP | WATTS | VOLTS | LAMP* LUMENS (2000 HRS) | T. CLASS | t. AMB. | FLOODLIGHT TYPE NO. | CONTROL GEAR BOX TYPE NO. |
|-------|-------|--------------------------------|-------------------------------|-------------|------------|------------------------|---------------------------------|
| SON/T | 70 | 210-250 50Hz 220-270 60Hz | 5500 | T6 | 40°C | 484/70 | Not Req'd. |
| SON/T | 150 | 210-250 50Hz 220-270 60Hz | 14350 | T3 | 40°C | 484/150 | 501/150 |
| SON/T | 250 | 210-250 50Hz 220-270 60Hz | 27000 | T3 | 40°C | 484/250 | 501/250 |
| SON/T | 400 | 210-250 50Hz 220-270 60Hz | 48000 | T3 | 40°C | 484/400 | 501/400 |
| SON | 70 | 210-250 50Hz 220-270 60Hz | 5300 | T6 | 40°C | 486/70 | Not Req'd. |
| SON | 150 | 210-250 50Hz 220-270 60Hz | 13850 | T3 | 40°C | 486/150 | 501/150 |
| SON | 250 | 210-250 50Hz 220-270 60Hz | 24800 | T3 | 40°C | 486/250 | 501/250 |
| SON | 400 | 210-250 50Hz 220-270 60Hz | 46500 | T3 | 25°C | 486/400 | 501/400 |
| MBFU | 250 | 210-250 50Hz 220-270 60Hz | 12000 | T3 | 40°C | 486/250M | 500/250 |
| MBFU | 400 | 210-250 50Hz 220-270 60Hz | 20400 | T3 | 25°C | 486/400M | 500/400 |
| T/HAL | 300 | 110-125 AC/DC | 6000 | T3 | 50°C | 469/300 | Not Req'd. |
| T/HAL | 500 | 110-125 AC/DC 220-240 AC/DC | 9500 | T3 | 40°C | 469/500 | Not Req'd. |
| T/HAL | 1000 | 110-125 AC/DC 220-240 AC/DC | 22000 | T2 | 40°C | 469/1000 | Not Req'd. |



CHALMIT 503

HIGH WATTAGE FLOODLIGHT (ExN)



A unique luminaire from CHALMIT enabling very high wattage lamps to be used in Zone 2 classified areas.

The floodlight is fully weatherproof to IP 67 and combines solid construction with very high light output in a housing of minimum weight and attractive appearance.

Through advanced design and construction techniques, even at maximum wattage, surface temperatures remain relatively low. An integral ignitor can be incorporated for H.P.S., allowing the control gear to be mounted further from the floodlight eliminating the requirement for expensive high voltage cable.

Using the CHALMIT 503 will give extremely high levels of illumination from a small number of fittings, greatly reducing installation and maintenance costs.

LIGHT DISTRIBUTION

Two types of reflector can be fitted to the floodlight offering various light distributions. Photometric data available on request.

ACCESSORIES

- Protective PTFE Coating
- Integral Ignitor (HPS)
- Swinging Jib Bracket
- Pole Mounting Bracket
- Anti-Glare Shield
- Wire Guard
- Chalmit 4891 Cable

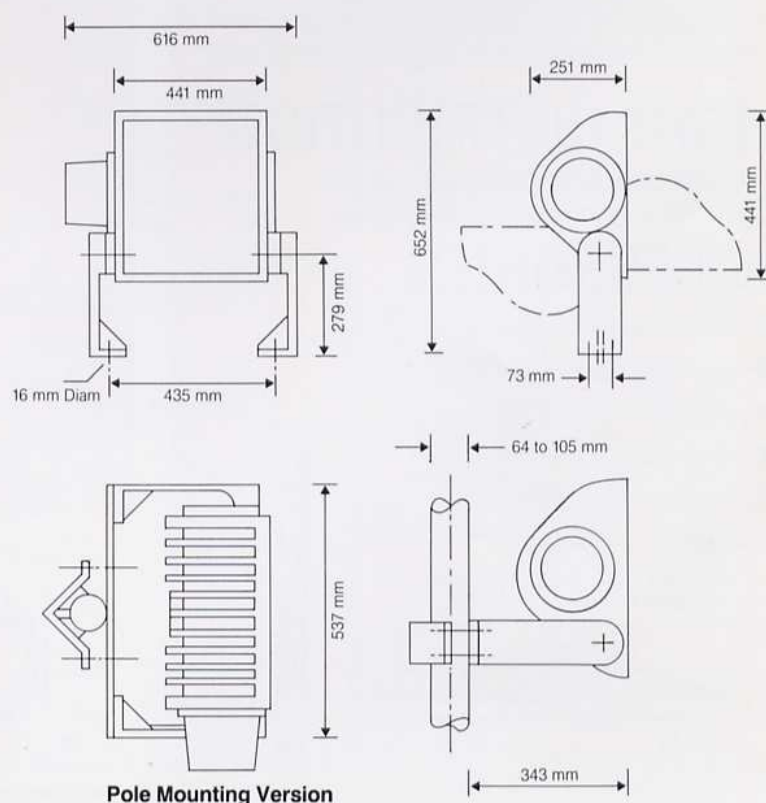
SPECIFICATION – FLOODLIGHT

| | |
|---------------------|--|
| TYPE OF PROTECTION | ExN |
| AREA CLASSIFICATION | Zone 2 |
| APPARATUS STANDARD | BS.4533 Section 2:1 1976 |
| CERTIFICATE | BASEEFA Ex 81267 X |
| ENCLOSURE | Pressure Die Cast Aluminium LM6M or Gunmetal LG2 with heat resistant toughened glass window |
| REFLECTOR | High Purity Anodised Aluminium, plain or patterned |
| ENTRY | Tapped entry via 20 mm hole |
| TERMINATION | Incoming terminal suitable for up to 4 mm ² cable |
| INSTALLATION | Foot Mounting |
| RELAMPING | Via removable end cover |
| CONTROL GEAR | i) See CHALMIT 500 Series (ExN) Control Gear Box ii) Floodlight available with integral ignitor |
| BURNING POSITION | Universal |
| PROTECTION | IP 67 |

| LAMP | WATTS | VOLTAGE | LAMP * LUMENS (2000 HRS) | T. CLASS | t. AMB. | FLOODLIGHT TYPE NO. | CONTROL GEAR BOX TYPE NO. |
|-------|-------|------------------------------|--------------------------------|-------------|------------|------------------------|---------------------------------|
| SON/T | 1000 | 210-250 50Hz 220-270 60Hz | 129000 | T3 | 40°C | 503/1000 | 502/1000 |
| MBFU | 700 | 210-250 50Hz 220-270 60Hz | 38100 | T3 | 40°C | 503/700 | 501/700 |
| T/HAL | 2000 | 220-240 AC/DC | 44000 | T2 | 40°C | 503/2000 | Not Req'd. |

| WEIGHT | |
|-----------|----------|
| ALUMINIUM | GUNMETAL |
| 25 Kg | 73 Kg |

* Lamp Lumens are for guidance only and may vary between lamp manufacturers.



CHALMIT 500 SERIES (ExN) STAINLESS STEEL CONTROL GEAR BOXES



Manufactured for indoor or outdoor locations where rugged construction, non-corrosive material and extreme reliability are essential operating requirements.

Fully weatherproof against moisture and dust to IP 67, these units eliminate the corrosion maintenance problems experienced in the Offshore Oil Industry, Petro-chemical Works and other industries where corrosion is a problem.

Available in three basic sizes, they can accommodate Control Gear for use with discharge lamps from 70 to 1000 watts.

They are supplied with gear and wired up for immediate use with each box being vacuum tested for gas-tightness before despatch. It is then labelled, serial numbered and recorded to ensure the utmost reliability.

ACCESSORIES

- Pole Spigot Attachment
- Chalmit 4891 Cable

| Type No. | | A | B | C | D | E | F | G | H |
|----------|----|-----|-----|-----|-----|-----|-----|-----|----|
| 500 | mm | 171 | 152 | 229 | 203 | 159 | 381 | 457 | 14 |
| 501 | mm | 171 | 152 | 305 | 279 | 235 | 381 | 502 | 14 |
| 502 | mm | 191 | 171 | 381 | 343 | 283 | 476 | 559 | 17 |



a Pillar electrical company

SPECIFICATION - CONTROL GEAR BOXES 500 SERIES

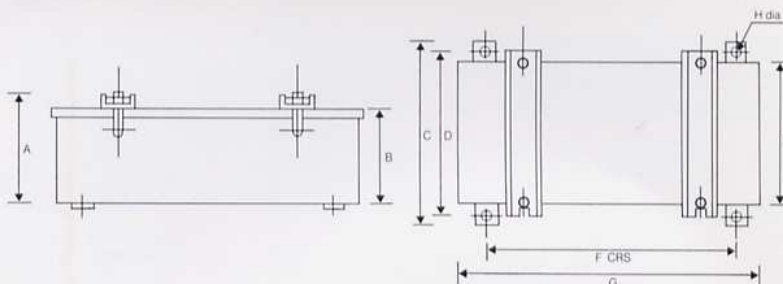
| | |
|----------------------------|---|
| TYPE OF PROTECTION | ExN |
| AREA CLASSIFICATION | Zone 2 |
| APPARATUS STANDARD | BS.4683 Part 3: 1972 |
| CERTIFICATE | BASEEFA Ex 81265 X |
| ENCLOSURE | 316 Marine Grade Stainless Steel |
| ENTRY | Via 3 × 20 mm diameter holes. (Tapped M20 Hole available) |
| TERMINATION | Incoming terminals suitable for up to 4 mm ² cable |
| INSTALLATION | Via 2 Mounting Straps |
| CABLE | For high pressure sodium CHALMIT 4891 cable must be used between floodlight and control gear box to comply with certificate Note: This does not apply if floodlight has integral ignitor |
| BALLAST | Tapped for 210-250V 50Hz, 220-270V 60Hz in 10 volt steps |
| CAPACITOR | Power factor corrected to a minimum of 0.85 lag |
| IGNITOR | Electronic (HPS only) |
| PROTECTION | IP 67 |
| TEMPERATURE CLASSIFICATION | T4, Max. Ambient 40°C (except 502/1000 T4, Ta 35°C) |

| BOX TYPE NO./WATTS | LAMP TYPE | WEIGHT KG |
|--------------------|-----------|-----------|
| 500/80 | MBFU | 7 |
| 500/125 | MBFU | 8 |
| 500/250 | MBFU | 10 |
| 500/400 | MBFU | 14 |
| 501/700 | MBFU | 18 |
| 501/70 | HPS | 10 |
| 501/150 | HPS | 14 |
| 501/250 | HPS | 15 |
| 501/400 | HPS | 17 |
| 502/1000 | HPS | 32 |

500 Series Boxes can also be used to house auto transformers for use on 110/115/120V 50/60 Hz.

| BOX TYPE NO. | TRANSFORMER V.A. | WEIGHT KG |
|--------------|---|-----------|
| 500 | 500 VA | 14 |
| 501 | 1250 VA | 16 |
| 502 | 500 VA + HPS or MBFU Gear up to 400 watt | 32* |

* Approximate: Depends on type of control gear.



Chalmit

Andrew Chalmers & Mitchell Limited

443-447 Hillington Road, Glasgow G52 4QW, Scotland, U.K.

Telephone: 041-882 5553 041-882 3318

Telex: 779378 CHALMT G Fax: 041-883 3704