

TOTAL QUALITY

Where the safety of people and property is paramount, absolute confidence in product choice is critical.

With over 80 years international experience in the Oil, Gas and Petrochemical industries, Simplex Chalmers luminaires are specified with complete conviction. With approvals such as 'BS EN ISO 9001:1994' and 'MOD DEF STAN 591:1991', certification to British and CENELEC standards and approvals from certifying authorities in the UK, Canada, Australia, Holland and Norway, the Company's commitment to quality ensures that safety is never compromised.

INTERNATIONAL INNOVATION

Simplex Chalmers has attained a position of market pre-eminence through a rigorous programme of continuous product development.

Employing the latest technology, in conjunction with modern light sources and controls, new, high technology luminaires are created in partnership with clients around the world.

Sophisticated computer aided design tools, allied to up-to-date photometric and mechanical testing techniques underpin the design programme to produce internationally accepted products.

IN DEPTH SUPPORT

From the centre of excellence based in Glasgow and sales support offices in Singapore and Abu Dhabi, our clients can be assured of extensive technical and after sales support.

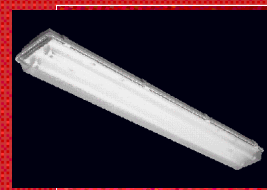
This service encompasses sophisticated expert applications advice free of charge ~ lighting design software, in-house project design, informed guidance on the safe installation and maintenance of hazardous area luminaires and the full back up expected of a major manufacturer



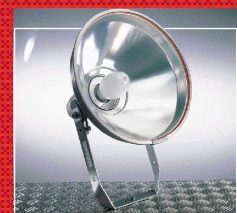
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SONSCAN 70
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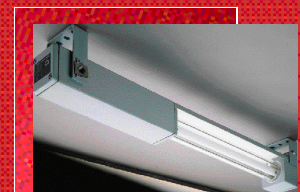
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GLOBAL SCOPE

The global nature of the Oil, Gas and Petrochemical industries demands that manufacturers offer world class products and worldwide service capability. This, in turn, requires companies to operate on an international scale at all levels. Simplex Chalmers is just such an international company

ACF4N

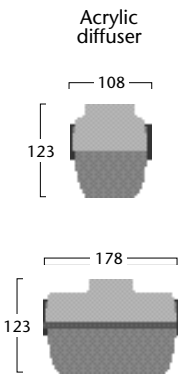
Ex N Luminaire with plastic enclosure for tubular fluorescent lamps up to 70W T8



Ex N luminaires for tubular fluorescent lamps are the most flexible approach to lighting Zone 2 areas indoors or where single point and instant high quality light is needed. The unrestricted breathing enclosure offers ease of installation and maintenance.

Benefits include:~

- Corrosion resistant construction.
- Electronic ignition with safety cut out device which prevents lamp flicker and extends lamp life.
- Unrestricted breathing enclosure removes the need for special seals, glands and cable selection.
- Gear tray, with all control gear fitted, suspended for simple installation and maintenance.
- Low loss control gear.
- Looping terminals allow through wiring by customer.



ORDER CODES	FEATURES					
	Lamp ways	Watts	Rated supply	T class	Ta °C	Weight (kgs)
ACF4NA1218	1 × 600	18W	240 50Hz	T4	50	2.4
ACF4NP1218	1 × 600	18W	240 50Hz	T4	50	2.4
ACF4NA2218	2 × 600	18W	240 50Hz	T4	40	4.2
ACF4NP2218	2 × 600	18W	240 50Hz	T4	40	4.2
				145°C (T3)	45	
ACF4NA1436	1 × 1200	36W	240 50Hz	T4	50	3.4
ACF4NP1436	1 × 1200	36W	240 50Hz	T4	40	3.4
				140°C (T3)	45	
ACF4NA2436	2 × 1200	36W	240 50Hz	T4	45	5.7
ACF4NP2436	2 × 1200	36W	240 50Hz	T4	45	5.7
ACF4NA1558	1 × 1500	58W	240 50Hz	T4	45	5.1
ACF4NP1558	1 × 1500	58W	240 50Hz	140°C (T3)	40	5.1
ACF4NA2558	2 × 1500	58W	240 50Hz	150°C (T3)	40	7.9
ACF4NP2558	2 × 1500	58W	240 50Hz	155°C (T3)	40	7.9
ACF4NA1670	1 × 1800	70W	240 50Hz	150°C (T3)	45	5.2
ACF4NP1670	1 × 1800	70W	240 50Hz	150°C (T3)	45	5.2
ACF4NA2670	2 × 1800	70W	240 50Hz	150°C (T3)	40	8.5
ACF4NP2670	2 × 1800	70W	240 50Hz	160°C (T3)	40	8.5

Always state supply when ordering.
Other specific voltages and frequencies on request.
115/130 models have different T class and T amb ratings refer to Whitecroft Sales Department.

SPECIFICATION

- Ex N non-sparking protection.
- Zone 2 areas to BS5345 classification.
- Apparatus to BS 4533 Pt.2 Sect.2:1 1996 standard.
- BASEEFA Ex 88Y4080 Certificate.
- Coding ~ EX N II T3 and T4 (refer to table).
- GRP body with acrylic or polycarbonate diffuser and plastic securing clips, painted gear tray.
- M20 clearance hole at each end for entry.
- Terminal looping 4mm² 10A max.
- Installation by rear fixing on centres shown.
- Premium grade control gear with electronic switchstart and correction capacitor to 0.8/0.9 pf.
- Quick release clips for relamping.
- Universal (not facing above 90° outdoor burning position).
- Ingress protection ~ IP65 to BS 5490/IEC529.

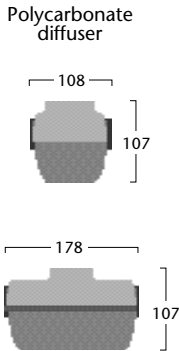
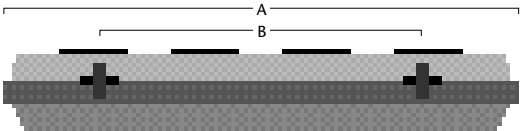
OPTIONS

Accessories order separately:~	
ACF3CS	Conduit entry seal (2 per pack)
ACF3CS	20mm cable gland (1 per pack)
ACF3CS	Stainless steel hook suspension set
ACFT3ET	Earth tag wire for 20mm cable entry (1 per pack)
A70.981.907	Stainless steel diffuser clips and screw set

- Emergency versions available on request ~ Ta 25°C

DIMENSIONS MM

	A	B
1 × 18W	682	450
2 × 18W	682	450
1 × 36W	1292	800
2 × 36W	1292	800
1 × 58W	1592	1100
2 × 58W	1592	1100
1 × 70W	1854	1390
2 × 70W	1854	1390



ACF4NEM

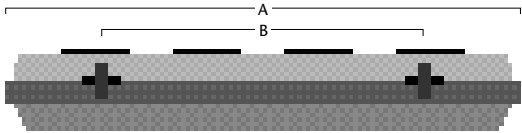
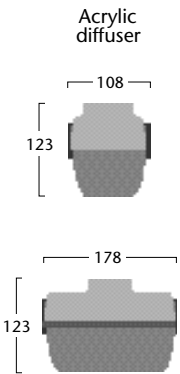
Ex N luminaire with plastic enclosure and integral emergency power supply for tubular fluorescent lamps up to 58W T8.



Ex N luminaires for tubular fluorescent lamps are the most flexible approach to lighting Zone 2 areas indoors or where single point and instant high quality light is needed. The unrestricted breathing enclosure offers ease of installation and maintenance. The ACF4NEM provides illumination for escape lighting over doorways and for signs as well as for continuing operation and restoration work on power supplies.

Benefits include:~

- Corrosion resistant construction.
- Electronic ignition with safety cut out device which prevents lamp flicker and extends lamp life.
- Unrestricted breathing enclosure removes the need for special seals, glands and cable selection.
- Gear tray, with all control gear fitted, suspended for simple installation and maintenance.
- Low loss control gear.
- Sealed long life nickel-cadmium batteries.
- Switchable mains supply for local operation.
- LED charge indicator.
- Acrylic or polycarbonate cover option.



ORDER CODES	FEATURES					
	Lamp ways	Watts	Rated supply	T class	T amb °C	Weight (kgs)
ACF4ANENM1436	1 × 1200	36W	220 to 240V 50 and 60Hz	T6	45	4.6
ACF4ANEMT1436	1 × 1200	36W	220 to 240V 50 and 60Hz	T4	40	5.6
ACF4ANEM2436	2 × 1200	36W	220 to 240V 50 and 60Hz	T4	30	7.1
ACF4ANENM1558	1 × 1500	58W	220 to 240V 50 and 60Hz	T6	45	6.1
ACF4ANEMT1558	1 × 1500	58W	220 to 240V 50 and 60Hz	T4	35	6.3
ACF4ANEM1558	1 × 1500	58W	220 to 240V 50 and 60Hz	T4	35	8.1
				T3	35	8.1

SPECIFICATION

- Ex N non-sparking protection.
- Zone 2 areas to BS5345 classification.
- Apparatus to BS 4533 Pt.2 Sect.2:1 1996 standard.
- BASEEFA Ex 88Y4080 Certificate.
- Coding ~ EX N II T3, T4 and T6 (refer to table).
- GRP body with acrylic or polycarbonate diffuser and plastic securing clips, painted gear tray.
- M20 clearance hole at each end for entry.
- Terminal looping 4mm² 10A max.
- Installation by rear fixing 7 dia. holes. Seals provided for sealing to IP54 (min).
- Premium grade control gear with electronic switchstart. Potted charger/inverter, sealed Ni-Cd battery 12V 4Ah.
- Power factor correction incorporated to 0.8/0.9 depending on model.
- Quick release clips for relamping.
- Universal (not facing above 90° outdoor) burning position.
- Ingress protection ~ IP54 to BS 5490/IEC529.
- Duration ~ 36W: 50% of one lamp 2 hours.
58W: 35% of one lamp 90 minutes.

OPTIONS

Lamp cover replace A (acrylic cover) with suffix:~
P Polycarbonate cover

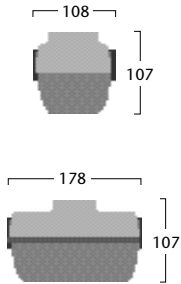
Assembly parts order separately:~
ACF3CS Conduit entry seal (2 per pack)
ACF3CS 20mm cable gland (1 per pack)
ACF3HS Stainless steel hook suspension set
ACFT3ET Earth tag wire for 20mm cable entry (1 per pack)
A70.981.907 Stainless steel diffuser clips and screw set

EMERGENCY CODE

ENM Non-maintained
EMT Maintained single lamp in twin body
EM Maintained twin lamp

- 3 hour duration to special order

Polycarbonate diffuser



	DIMENSIONS MM	
	A	B
1 × 36W	1292	800
2 × 36W	1292	800
1 × 58W	1592	1100
2 × 58W	1592	1100

HDBN Bulkhead

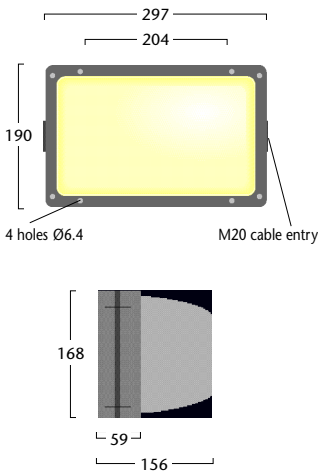


Ex N Bulkhead Luminaire for discharge lamps up to 80W MBF, 70W SON and incandescent lamps up to 200W

Bulkheads offer an economical, compact and versatile solution to lighting applications especially where conditions are exposed and dirty. The HDBN bulkhead is simple to install, easy to maintain, durable, and the use of efficient sodium lamps completes the attractive package.

Benefits include:~

- Easy control gear replacement.
- Fixing points outside restricted breathing enclosure.
- Suitable for ceiling, wall, or post mounting.
- High corrosion resistance.



- SPECIFICATION**
- Ex N non-sparking protection (restricted breathing area).
 - Zone 2 areas to BS 5345 classification.
 - Apparatus to BS 4533 Section 2.1 1976.
 - BASEEFA Ex 81106 certificate.
 - Coding ~ Ex N II T3, T4 and T5 (*refer to table*).
 - Aluminium LM6 enclosure to BS 1490 pressure die cast. Borosilicate glass cover. Silicone rubber gasket. Stainless steel fasteners.
 - M20 tapped entries at each end (one plugged).
 - Termination ~ suitable for looping 4mm² conductors at 20A rating.
 - Installed via four 7mm clearance holes in the fixing channel.
 - Control gear fitted internally with ignitor and correction capacitor as required.
 - Power factor correction incorporated to 0.85 min for discharge, 0.7 for MBTL.
 - E27 lampholder for discharge and GLS.
 - Relamping via front cover using four stainless steel slotted head screws.
 - Ceiling mounted or wall mounted (cap up) burning position.
 - IP66 to BS5490/IEC529 ingress protection.

OPTIONS

Wire guard add suffix after HDBN in order code:~
/WG Wire guard

- Side entry tappings.
- T5 rating for 50W and 70W SON.
- Multi-tap control gear.

FEATURES					
ORDER CODES	Lamps	Watts	Rated supply	T class	Ta °C
HDBN50S	SON	50	220 to 250V 50 and 60HZ	T4	25
HDBN70S	SON	70	220 to 250V 50 and 60HZ	T4	25
HDBN50M	MBF	50	220 to 250V 50 and 60HZ	T5	25
HDBN80M	MBF	80	220 to 250V 50 and 60HZ	T4	25
HDBN200G	GLS up to	200	250V max. 4A max. ac	150°C (T3)	25
HDBN160B	MBTL	160	2A max. dc 250V max.	150°C (T3)	25

The control gear may be multi-tapped as available.
Always specify supply when dering.

WEIGHT	
	Kg
50W/70W SON	6.4
50W/180W MBF/U	5.3
200W GLS	
160W MBTL	4.2

Sonscan 70

**Ex N Plastic Enclosure
Floodlight for SON/T
lamps up to 70W**

The Sonscan 70 is ideally suited to area floodlighting and to providing economical operation in Zone 2 areas. The corrosion resistant properties ensure a long and reliable life in adverse conditions.

Benefits include:-

- Corrosion resistant construction of plastic with stainless steel fasteners and an epoxy painted galvanised steel mounting bracket.
- Universal operational attitude.
- Quick installation via open access to control gear.
- Dust tight and jet proof.
- Tough durable construction.
- Fitted with cable gland.

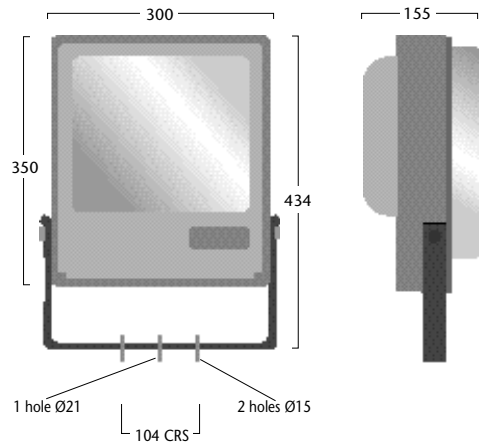
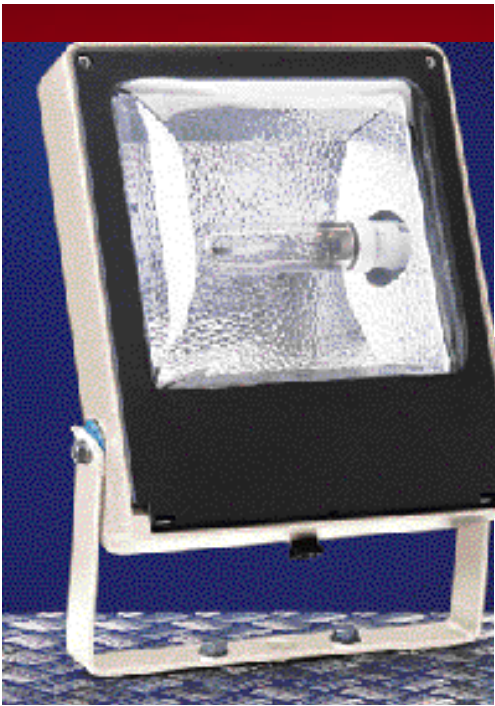
SPECIFICATION

- Ex N non-sparking (restricted breathing enclosure) protection.
- Zone 2 to BS 5345 classification.
- Apparatus to BS 4533 Section 102.51:1986.
- BASEEFA Ex 90Y4317 certificate.
- GRP body with injection moulded polycarbonate combined cover and bezel.
- High purity anodised aluminium, patterned reflector.
- Entry via one 20mm tapped hole fitted with plastic cable gland for 8 to 13mm diameter cable.
- Termination ~ suitable for connecting one 3 core cable up to 4mm² at 10 A rating.
- Stirrup mounting bracket installation.
- Integral control gear with ignitor and correction capacitor.
- Power factor correction incorporated to 0.9 min.
- Cover secured by 4 pan head stainless screws provides access to lamp and control gear.
- E27 lampholder.
- IP65 to BS 5490/IEC529.

OPTIONS

Accessories order separately:-

SSCUC Pole clamp as an accessory for 76/90mm OD poles

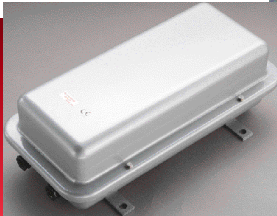


ORDER CODES	FEATURES				
	Lamps	Watts	Rated supply	T class	Ta °C
SSCN70S	SON/T	70	230 to 240V 50Hz 220V 60Hz	T5 T4	30°C indoor 40°C outdoor

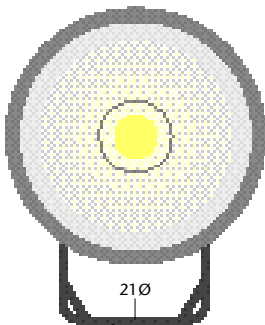
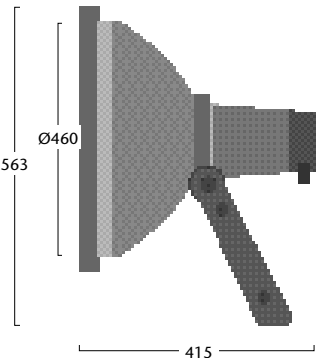
WEIGHT	
	Kg
70W SON	5.5



Powerbeam N/CGBN



Ex N Projector floodlight and CGBN gearbox for discharge lamps up to 400W.



2 holes drilled and tapped 1/8" BSW 63.5 263

The Powerbeam N is designed to give high intensity illumination in Zone 2 areas using economical and flexible components. The range of lamps and front covers allow the precise tailoring of the beam to meet the illumination requirements.

The luminaire can be used as a projector or high bay.

Benefits include:-

- Simple, flexible, lightweight construction.
- Rotational and bi-axial beam options in combination with different lamp types provides precise control.
- Separate gear box to reduce head weight and to allow flexible location (distances from luminaires to control box will be determined by cable type and length ~ refer to product details).
- Accurate elevation setting using calibrated protractor scale and preset device.

- Relamping from rear is simple with no heavy parts to handle and gives access from secure positions. The set angle is not disturbed.
- SON and SON/T lamps can be used depending on distribution needed. Tubular lamps give a narrower beam. The bi-axial option gives a wider beam.

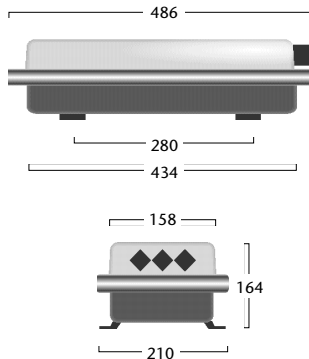
SPECIFICATION

- Ex N non-sparking (restricted breathing enclosure) protection.
- Zone 2 areas to BS 5345.
- Apparatus to BS 4533 Part 2 Section 2.1 1976.
- BASEEFA Ex 81089X Certificate ~ luminaire. BASEEFA Ex 81088X Certificate ~ gear box.
- Coding ~ Ex N II T3 ~ luminaire. Ex N II T4 & T5 ~ gear box (refer to table).
- Luminaire housing of die cast aluminium LM6 to BS1490 with anodised high purity aluminium reflector and die cast fixing ring. Silicone rubber gaskets. Toughened front cover glass. Gear box epoxy painted mild steel.
- M20 single entry into luminaire and gear box for 2 x 4mm² conductors with earth terminal, (rated at 20A). Supply to gear box for looping 2 x 2.5mm² with earth terminal, two cable glands fitted, one entry plugged.
- Installation using stirrup bracket and optional swivel plate. Gear box has rear fixing straps.
- Control gear mounted in gear box with ignitor and correction capacitor as required.
- Power factor correction incorporated to 0.9 min
- Relamping from the rear using quick release fixing.
- IP66 to BS5490/IEC529 ingress protection.

OPTIONS

Accessories please order separately:-

PBHP Base plate Weight 0.5 kg



FEATURES

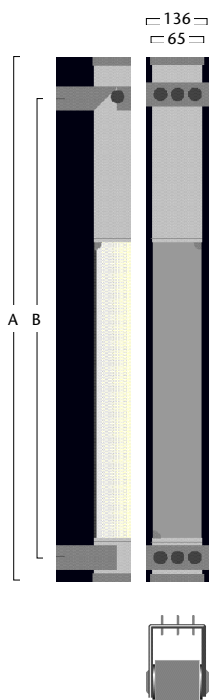
ORDER CODES	Ingress protection	Glass	Lamps	Rated supply	T class	Ta °C
Projector						
PBCN 250	IP66	Clear	250W SON, SON/T, MBIF, MBF/U	-	T3	50
PBCN 400	IP66	Clear	400W SON, SON/T, MBIF, MBF/U	-	T3	50
PBRN 250	IP66	Reeded	250W SON, SON/I, MSIF, MBF/U	-	T3	50
PBRN 400	IP66	Reeded	400W SON, SON/T, MBIF, MBF/U	-	T3	50
Gear box						
CGBN 250S	IP66	-	250W SON	220 to 240V 50Hz	T4/T5	50/30
CGBN 400S	IP66	-	400W SON	220 to 240V 50Hz	T4/T5	50/25
CGBN 250H	IP66	-	250W MBI	240V 50Hz	T4/T5	50/30
CGBN 400H	IP66	-	400W MBI	240V 50Hz	T4/T5	50/30
CGBN 250M	IP66	-	250W MBF/U	240V 50Hz	T4/T5	50/40
CGBN 400M	IP66	-	400W MBF/U	240V 50Hz	T4/T5	50/25

Always state rated supply when ordering

WEIGHT	Kg
Powerbeam N	7.5
CGBN 250W	10.5
CGBN 400W	11.4

Triple F

*Exd Flameproof
luminaire for tubular
fluorescent lamps up to
58/65W T8/T12*



The Triple F is a well proven design which provides fluorescent lamp performance in Zone 1 areas. It is especially suitable for those locations where luminaires of plastic construction would be subject to attack from the environment or from aggressive chlorinated hydrocarbons used in cleaning or production operations. The 26mm T8 bi-pin lamp used is readily available, lamps up to 58W can be used. The construction is resistant to solvents and can be easily cleaned.

Benefits include:-

- Electronic start with safety cut out provides simple and reliable control of the lamp.
- High ingress protection rating.
- Simple, rapid lamp replacement.
- Corrosion resistant construction.
- Electronic start with safety cut out.
- Independent units in twin versions.
- T8 bi-pin lamp used.



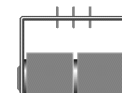
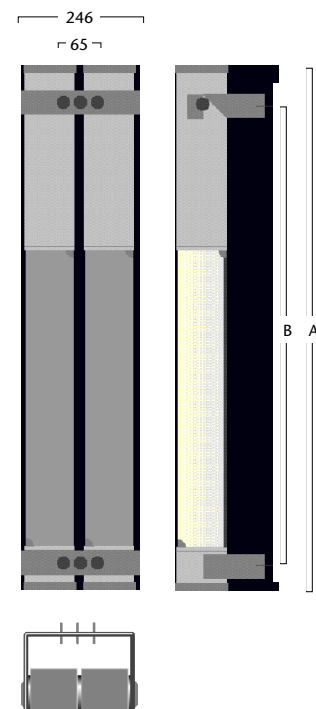
DIMENSIONS MM		
	A	B
1 x 18W	1026	924
2 x 18W		
1 x 36W	1636	1534
2 x 36W		
1 x 58W	1938	1836
2 x 58W		

SPECIFICATION

- Ex d protection.
- Zone 1 and 2 areas ~ Gas groups II and III to BS 229 (these equate generally to gas groups IIA and IIB to BS 4683 Part 1 1971 and BS 5501 Part 1 1977, refer to BS 5345).
- Apparatus to BS 229:1957 (including amendments 1 to 7).
- BASEEFA Ex 71011 Certificate.
- Coding ~ Gas groups II and III to BS 229 T5 equivalent.
- Stove enamelled cast aluminium LM6 enclosure. Stainless steel fasteners. Borosilicate lampglass.
- 2 x M20 tapped entries at each side.
- Termination ~ looping of 3 core 2.5mm2 conductors in an indirect entry flameproof terminal chamber.
- Installation via two hanging brackets.
- Conventional wound type control gear with electronic starter and correction capacitor.
- Power factor correction incorporated to 0.85 min.
- The end cover is removed to allow the lamp to be withdrawn. If required the remote end is released from the bracket and the luminaire swung down for access.
- Universal burning position.
- IP66 to BS 5490/IEC529 ingress protection.

OPTIONS

- Reflector in white epoxy/polyester painted mild steel.
- Guard assembly c/w reflector.
- 38mm diameter T12 option available.
- Universal spine to link suspension brackets and provide freedom of suspension.



FEATURES						
ORDER CODES	Lamps	Watts	Voltage	T class	Ta °C	
235200T8	1 x 600mm	18	220 to 250V 50 and 60HZ	T5	35	
235210T8	2 x 600mm	18	220 to 250V 50 and 60HZ	T5	35	
235400T8	1 x 1200mm	36	220 to 250V 50 and 60HZ	T5	35	
235410T8	2 x 1200mm	36	220 to 250V 50 and 60HZ	T5	35	
235500T8	1 x 1500mm	58	220 to 250V 50 and 60HZ	T5	35	
235510T8	2 x 1500mm	58	220 to 250V 50 and 60HZ	T5	35	

WEIGHT	
	Kg
235200T8	10.0
235210T8	20.0
235400T8	13.2
235410T8	26.3
235500T8	15.0
235510T8	30.0

