



KabEx
AUSTRALIA PTY LTD

- EX LIGHTING
- EX CONTROL EQUIPMENT


Petrel 
Hazardous Area Equipment



KabEx Australia is a leading company specializing in the supply of industrial cables, hazardous area equipment and associated goods.

By bringing together the best of relationships with both overseas factories and local suppliers KabEx offers a complete range of cables with particular emphasis on flexible power cables, instrumentation cables, low and medium voltage cables.

We offer a custom manufacture service to meet any specification of specialty cables with very competitive pricing which includes fast lead times and low minimum order quantities.

KabEx Australia is also the sole Australian importer of both Petrel Ltd range of Hazardous Area Lighting and Control Equipment along with OSG Co Ltd range of Cable Glands and Accessories for both Hazardous & Industrial Area.

Our extensive experience includes exporting to major projects throughout the Asia, Pacific and Middle East regions. We also offer nationwide coverage with particular strengths in servicing remote areas of Australia.

All products supplied by KabEx meet our strict quality criteria and are made to the highest standard in ISO9001 certified factories.

Petrel^{Ex}

Hazardous Area Equipment

About us....

Petrel Limited, a division of Chamberlin plc., manufacturers of lighting and control equipment for potentially explosive atmospheres.

Headquartered at our manufacturing operation in Birmingham UK, Petrel Limited continues to maintain a long tradition of high quality product design, development and production under a strict quality management regime to improve the overall sales and service package.

Capitalising on decades of design, technical and manufacturing expertise Petrel continues to produce innovative Ex products for lighting and control applications around the world. Continual investment in product development and manufacturing techniques ensures state of the art Ex products of consistent high quality, are produced in an ISO 9000-2000 quality assured environment. Accredited third party bodies ensure our ATEX certified products give the performance you need in those difficult hazardous areas.

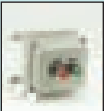



By supporting our major clients in the UK and through our network of international partners we maintain significant global reach and presence. Looking after our customers first means we also look after ourselves and the proof of our success is in our continuing double digit growth.

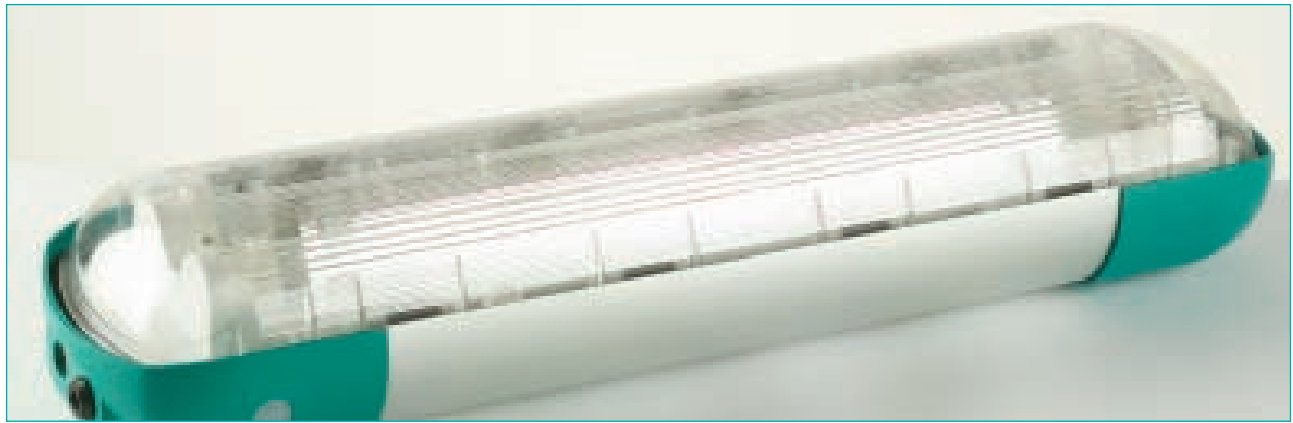
Peter Maclean
Managing Director



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The IECEx standard

The IECEx System is an International Conformity System where a Mark of Conformity will be granted by approved IECEx certifiers located in IECEx participating countries for equipment that is covered by an IECEx Certificate of Conformity and hence has been tested and manufactured under systems that are under ongoing surveillance by IECEx certifiers.

The purpose is to help governments, safety regulators, and industry to have greater assurance that the equipment being operated or supplied for use in areas where flammable gases and vapours and combustible dusts (termed explosive atmospheres) are present, meet the world's most respected and vigorous safety standards.

The Mark shall only be placed on products or on packaging and promotional material covered by a valid IECEx Certificate of Conformity issued in accordance with the IECEx System rules.

Zones	Equipment
Zone 0 & 20	Category 1
Zone 1 & 21	Category 2
Zone 2 & 22	Category 3

The marking of the equipment shall include the following typical data:

Ex II 2 G

Where II is the gas group;

2 is the category for use (prev. zone)

G (or D) is the type of explosive atmosphere - G = gas, vapour or mist; and D = Dust

IIC T4 Ta = -20°C to + 55°C

Where the T class will vary against ambient

IIC T5 Ta = -20°C to + 25°C

The T class marking for dust may also be shown if different to gas



Ingress protection

In addition to protection against the risk of explosion or ignition luminaires for use in hazardous areas will also need to provide adequate protection against the ingress of solids or liquids. The degree of classification is denoted by the IP classification system.

A two digit number is used to identify the degree of protection.

The first digit of the code denotes protection against dust and solid objects

The second digit denotes protection against moisture

IP0X No protection against solids

IP1X Protections against large solids (50mmØ)

IP2X Protections against medium solids (12mmØ)

IP3X No entry of a 2.5mmØ probe to live parts

IP4X No entry of a 1mmØ probe to live parts

IP5X Dust proof (no dust deposit around live parts)

IP6X Dust tight (no dust entry)

IPX0 No special protection

IPX1 Drip proof (vertical falling parts)

IPX3 Rain proof (rain up to angles of 60°)

IPX4 Splash proof (spray from any angle)

IPX5 Water jet proof

IPX7 Temporary immersion in water

IPX8 Submersion in declared depth

There are established engineering concepts recognised by the IEC for the design of electrical equipment for hazardous area applications. These engineering concepts are the basis of protection against the risk of fire or explosion. Each concept is identified by a protection symbol. The prefix 'Ex' in the symbol denotes a national standard whilst 'EEEx' denotes a harmonised European standard. This European standard has a 'EN' prefix.

If a design relies on more than one concept all symbols are normally shown.

Symbol & EN ref	Concept	Summary	Zone use	Atex Category
EEx ia EN/IEC 60079-II	Intrinsic safety	Limits energy of sparks & surface temperatures (using electronics c/w 2 failure protection devices)	0	2 & 3
EExib EN/IEC 60079-II	Intrinsic safety	Limits energy of sparks & surface temperatures (using electronics c/w 1 failure protection devices)	1 & 2	2 & 3
EEx d EN/IEC 60079-I	Flameproof	Contains explosion quenches flame	1 & 2	2 & 3
EEx e EEN/IEC 60079-7	Increased safety	No arcs, sparks or hot surfaces	1 & 2 2 & 3	
EEx p EN/IEC 60079-2	Pressurised	Keeps flammable gas out	1 & 2	2 & 3
EEx m EN/IEC 60079-I8	Encapsulated	Keeps flammable gas out	1 & 2	2 & 3
EEx q EN/IEC 60079-5	Powder filled	Keeps flammable gas out	1 & 2	2 & 3
EEx o EN/IEC 60079-6	Oil filled	Keeps hazard away from ignition source using inert oil	1 & 2	2 & 3
EEx N EN/IEC 60079-I5	Non-sparking	No arcs, sparks or hot surfaces	2	3

Emergency products

EN-60 598 2.22

This harmonised European product standard sets out the requirements for materials, design, manufacture, testing and operation of emergency lighting luminaires and equipment.

All emergency luminaires comply with EN 60 598 2.22 when used in an ambient temperature range of between 0 and +25°C. For any deviations please contact your local Technical Department.



Petrel Guide to Hazardous Areas

Temperature classification

The temperature classification of a given gas is the temperature above which an appropriate mixture of that gas with air will ignite. It is critical that the maximum surface temperature of any part of the equipment which may come into contact with the gas/air mixture, does not exceed the ignition temperature of the mixture.

The temperature class or 'T rating' is normally based on an ambient temperature of -20°C to +40°C

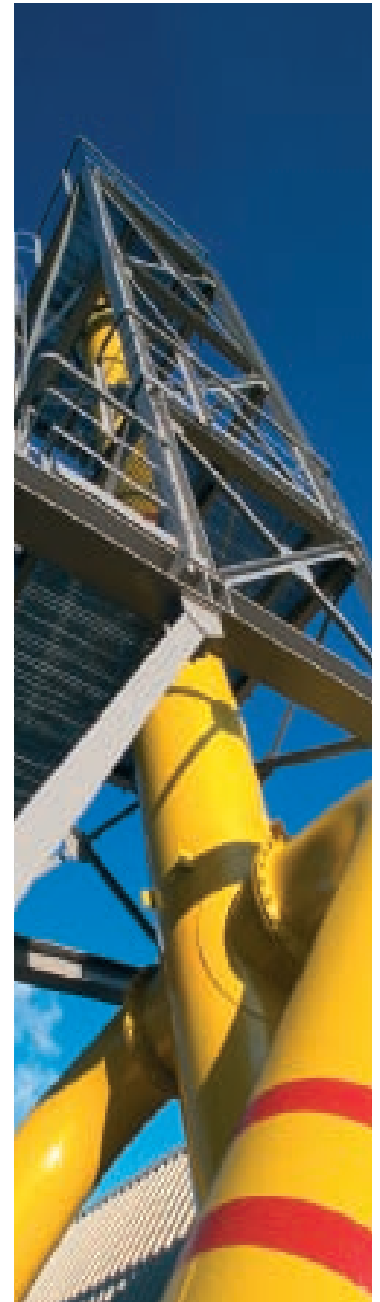
Class T Rating	Surface Temperature °C Max permitted	Ignition Temperature °C Gas/air mixture
T1	450	> 450
T2	300	> 300
T3	200	> 200
T4	135	> 135
T5	100	> 100
T6	85	> 85

Gas Groups

The explosive gases, vapours, and mists present in the atmosphere are grouped into temperature classes and gas groups according to various properties such as ignition temperature, the energy required to ignite the mixture, the energy produced by an explosion, flame transmission capability etc.

Group I Electrical equipment for use underground in mines susceptible to the hazard of firedamp (methane)

Group II Electrical equipment for use in all other hazardous areas. This group is then subdivided into the following 3 further groups according to the maximum experimental safety gap for non-transmission of an internal ignition plus the minimum ignition current of the mixture.



Subdivision A (Representative Gas Propane)

Common Hazardous gases & chemicals	Less-common Hazardous gases/mixture	Common Hazardous gases & chemicals	Less-common Hazardous gases/mixture	Common Hazardous gases & chemicals	Less-common Hazardous gases/mixture
SUBDIVISION A				SUBDIVISION B	
Hydrocarbons		Cyclohexanone T2		(Representative Gas Ethylene)	
Alkanes		Amyl methyl 2, 4-Pentanedione (acetylactone)		Hydrocarbons	
Methane T1	Pentane	Esters:		Ethylene T2	Allylene (Propyn)
Ethane T1	Heptane	Ethyl formate T1	Methyl formate	Cyclopropane T1	Butadiene T2
Propane T2	Cyclobutane	Methyl acetate T1	Amyl acetate	Compounds containing halogens	
Butane T3	Cycloheptane	Ethyl acetate T1	Methyl acetate	Acrylonitrile	
Hexane T3	Methylcyclobutane	Propyl acetate T1	Ethyl methacrylate	Hydrocyanic acid	
Octane T3	Decahydronaphthalene	Butyl acetate T1	Ethyl acetate	Compounds containing oxygen	
(decaline) T3		Vinyl acetate T1		Methyl ether	
Decane T3		Acids:		Ethyl methyl ether	
Cyclopentane T2		Acetic acid T1		Ethyl ether	
Cyclohexane T3		Compounds containing halogens		Bethyl ether	
Methylcyclopentane T3		Compounds with no oxygens		Ethylene oxide	
Methylcyclohexane T3		Chloromethane T1	Bromoethane	(epoxyethane)	
Ethylcyclobutane T3		Chloroethane T1	Chloropropane	Epoxy-propane	
Ethylcyclopentane T3		Chlorobutane T3	Bromobutane	Dioxolan	
Ethylcyclohexane T3		Chloroethylene (vinyl chloride) T1	Dichloroethane	Diaxan	
			Dichloropropane	Trioxan	
Alkenes:			Chlorobenzene	Bethyl hydroxyacetate	
Propene (propylene) T1			Benzyl chloride	tetrahydrofurfuryl alcohol	
Aromatic hydrocarbons:			Dichlorobenzene	Methyl acrylate	
Styrene T1	Methylstyrene		Allyl chloride	Ethyl acrylate	
Benzene and its derivatives:			Dichloroethylene	Furane	
Benzene T1	Trimethylbenzene		Chloroethyne	Crotonaldehyde	
Toluene T1	Naphthalene		Benzyl trifluoride	Aarolein	
Xylene T1	Cumene		Methylene chloride	Tetrohydrofuran	
Ethylbenzene T2	Cymene			Mixtures	
Mixtures of hydrocarbons		Compounds containing oxygen:		Gas from a coke surface	
Petroleum naphtha T3	Industrial Methane	Chloroethanol T1	Acetyl chloride	Compounds containing hydrogen	
Petroleum (inc, Petroleum spirits) T3	Turpentine	Compounds containing sulphur:		Tetrafluoroethylene	
Fuel Oil T3	Dry cleaning solvents	Ethyl mercaptan		Propane, 1 chloro	
Kerosene T3	Gas-oil	Propyl mercaptan		2, 3 epoxy	
	Benzole for cars	Thiophene		(epichlorohydrin)	
		Tetrahydrathiaphene		SUBDIVISION C	
Compounds containing oxygen oxides		Compounds containing nitrogen:		(Representative gas Hydrogen)	
(including ethers):		Ammonia T1	Acetonitrile	Hydrogen T1	
Carbon monoxide		Nitromethane T2		Acelene T3	
Dipropyl ether		Nitroethane T2		Carbon disulphide T6	
Alcohols and phenols:		Anines:			
Methanol T2	Hexanol	Methylamine T2	Triethylamine		
Ethanol T2	Heptanol	Dimethylamine T2	Propylamine		
Propanol T3	Octanol	Trimethylamine T4	Butylamine		
Butanol T2	Nonanol	Diethylamine T2	Monoethanolamine		
Pentanol T3	Methylcyclohexanol	Cyclohexylamine T3	Diethylaminoethanol		
Cyclohexanol T3	Cresol	Toluidine T1	Diaminoethane		
Phenol T1	diacetone-alcohol	Pyridine T1	Aniline		
Aldehydes:			Dimethylaniline		
T4	Mirtaldehyde		Amphetamine		
Ketones:					
Acetone T1	Propyl-methyl-ketone				
Ethyl-methyl-ketone T1	Butyl-methyl-ketone				

Electrical equipment certified for use in Group II is also suitable for use in IIA, IIB and IIC. Equipment certified for Group IIC is suitable for IIB and IIA whilst equipment certified for IIB is suitable for IIA.

Certification and Approval

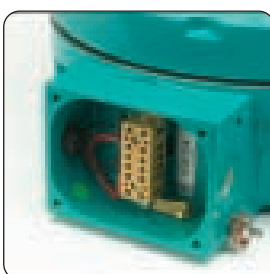
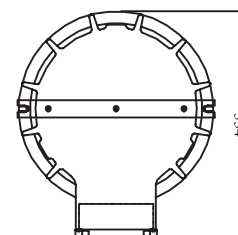
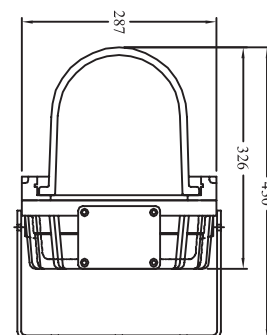
Certification Code	EEx de II 2 GD IIC T5
Certification number	SIRA 00 ATEX 1047
Certification standard	EN 60079-0, I, 7
Protection	IP 66

Features

Up to 100,000 hours life expectancy
Optional internal and/or external Reflector
Immediate ignition and re-ignition
Fixed or directional mounting options
Integral EEx e Terminal chamber

Options

Sealed and flying lead fitted
Optional internal /external Reflector
Coloured glass option
Fixed or directional mounting options



Terminal Block Access



Swivel Stirrup mounting



Threaded flame path

Technical Data

Supply Voltage	220-240v, 50/60Hz
Operating Temperature	-25°C to +40 °C
Control Gear	High frequency generator driving induction lamp within the luminaire
Lamp Options	55w or 85w induction lamp
Cable Entries	2 x M20 – ISO (1 plugged) as Standard Other threads available.
Terminals	4 (4mm) wire and earth with looping facility Cable crimping required at installation when looping
Mounting Facility	Back mounted fixing strap
Access	Terminals accessed via terminal cover retained by cap screws Lamp and gear accessed via removable glass dome
Material	Corrosion resistant marine grade aluminium body and bezel Toughened Borosilicate glass dome
Finish	2 Pack epoxy paint on primed surface. Standard colour - Aqua Additional costs for non standard colours
Accessories	Internal or external reflector Pivot bracket for directional control Pendant mount Wire Guard
Weight	15.0Kgs
Features	Ultra long life Flicker free start Low energy consumption Constant light independent of voltage fluctuations Automatic safety cut out in case of lamp failure



Hazardous Area Equipment

6 Series EEx de 610 Beacon / Warning Light

Certification and Approval

Certification Code	Ex d IIC / Ex e/Ex tb IIIC Db T3, T4 (See lamp tables for T rating)
Certification number	IECEX SIR 09.0027
Certification standard	IEC 60079-0, 1,7
Protection / Zoning	IP 66 / Zones 1, 2, 21, & 22

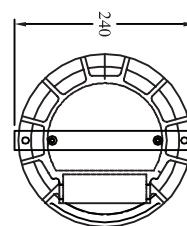
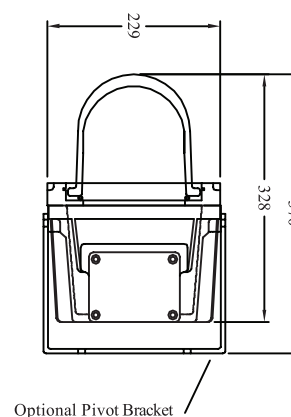
Features

Rotating Beacon
Xenon flashing unit
IIC as standard
Heavy Duty construction
Integral EEx e terminal chamber

Options

Range of fresnel colours or glass colouring
Long Life LED options
Range of warning and flash options
High ambient version

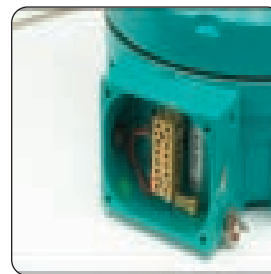
FOR AMBIENT TEMPERATURE "T" RATINGS SEE TABLES AT REAR OF CATALOGUE



Xenon Flash with Fresnel



LED cluster



Terminal block housing

Technical Data

Supply Voltage	Beacons 240v Warning Lights AC – 24 to 277 50/60Hz DC also
Operating Temperature	-45°C to +70 °C
Control Gear (when Fitted)	Electronic flasher unit Rotating Reflector drive
Lamp Options	Beacons: 150w GLS max (ES, E27 or BC) 25w SL (ES, E27 or BC), 20w PLCE Rotating 55w of 70w (supplied)
Cable Entries	2 x M20 – ISO (1 plugged) as Standard Other threads available.
Terminals	4 (4mm) wire and earth with looping facility Cable crimping required at installation when looping
Mounting Facility	Back mounted fixing strap
Access	Terminals accessed via terminal cover retained by cap screws Lamp and gear accessed via removable glass dome
Material	Corrosion resistant marine grade aluminium body and bezel Toughened Borosilicate glass dome
Finish	2 Pack epoxy paint on primed surface. Standard colour - Aqua Additional costs for non standard colours
Accessories	Internal or external reflector Pivot bracket for directional control Pendant mount Wire Guard Glass colouring available
Weight	9.0Kgs
Features	Flashing Xenon – Output 195,000CD peak OR Rotating Reflector beacon. 70°C ambient option available IIC as standard Heavy Duty Construction

Certification and Approval

Certification Code	Ex d IIC / Ex e/Ex tb IIC Db T3, T4 (See lamp tables for T rating)
Certification number	IECEX SIR 09.0027
Certification standard	IEC 60079-0, 1, 7
Protection / Zoning	IP 66 / Zones 1, 2, 21 & 22

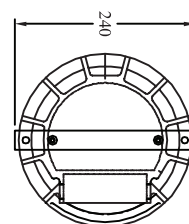
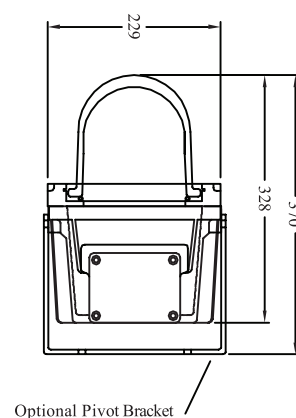
Features

Range of lamp sources available
IIC as standard
Heavy duty construction
Integral EEx e Terminal chamber

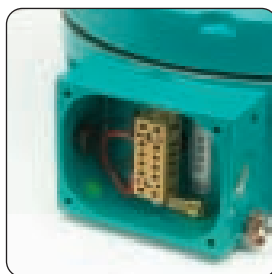
Options

Range of lamp sources
Low and high temperature versions
Internal and external reflectors
Coloured glass range

FOR AMBIENT TEMPERATURE "T" RATINGS SEE TABLES AT REAR OF CATALOGUE



610 Threaded flame path



Terminal block access



610 blue lens

Technical Data

Supply Voltage	240v 50Hz Check for alternative voltages
Operating Temperature	-45°C to +70 °C
Control Gear (when Fitted)	Ballast, ignitor and capacitor can be fitted within the luminaire
Lamp Options	Certified with elliptical lamps (Lamps not provided) 50w, 70w, 110w SON-E and 70w SON-R 50w, 80w, 125w HPMV/MBF 25w SL or 20w PLCE 150w GLS with ES (E27) lamp holder. BC holder also available
Cable Entries	2 x M20 – ISO (1 plugged) as Standard Other threads available.
Terminals	4 (4mm) wire and earth with looping facility Cable crimping required at installation when looping
Mounting Facility	Back mounted fixing strap
Access	Terminals accessed via terminal cover retained by cap screws Lamp and gear accessed via removable glass dome
Material	Corrosion resistant marine grade aluminium body and bezel Toughened Borosilicate glass dome
Finish	2 Pack epoxy paint on primed surface. Standard colour - Aqua Additional costs for non standard colours
Accessories	Internal or external reflector Pivot bracket for directional control Pendant mount Wire Guard
Weight	9kg to 12kgs lamp dependant
Features	70°C ambient option available IIC as standard Heavy duty construction



Hazardous Area Equipment

6 Series EEx de 620 Well Glass Range

Certification and Approval

Certification Code	Ex d IIC / Ex e/Ex tb IIIC T2 – T6 (See lamp tables for T rating)
Certification number	IECEX SIR 09.0028, SIRA 00 ATEX 1047
Certification standard	IEC 60079-0, 1, 7
Protection / Zoning	IP 66 / Zones 1, 2, 21 & 22

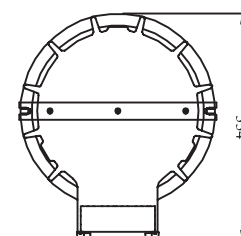
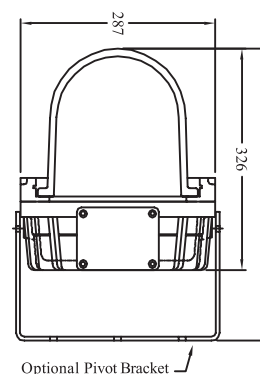
Features

Large lamp option range
High Ambient options available
Rapid re lamping and gear access
Integral EEx e Terminal chamber

FOR AMBIENT TEMPERATURE “T” RATINGS SEE TABLES AT REAR OF CATALOGUE

Options

Large range of lamp options
Low and high temperature versions
Coloured glass range



Terminal block access



620 External reflector



Swivel stirrup mounting

Technical Data

Supply Voltage	240v 50Hz Check for alternative voltages
Operating Temperature	-20°C to +40 °C standard supply For operation at -45°C or up to 90°C consult sales office prior to ordering
Control Gear (when Fitted)	Ballast, ignitor and capacitor can be fitted within the luminaire
Lamp Options	Certified with elliptical lamps (Lamps not provided) 150w SON-E and 250w SON-I 125w and 250w HPMV/MBF Up to 300w GLS, 25w SL or 20w PLCE
Cable Entries	2 x M20 – ISO (1 plugged) as Standard Other threads available.
Terminals	4 (4mm) wire and earth with looping facility Cable crimping required at installation when looping
Mounting Facility	Back mounted fixing strap
Access	Terminals accessed via terminal cover retained by cap screw Lamp and gear accessed via removable glass dome
Material	Corrosion resistant marine grade aluminium body and bezel Toughened Borosilicate glass dome
Finish	2 Pack epoxy paint on primed surface. Standard colour - Aqua Additional costs for non standard colours
Accessories	Internal or external reflector Pivot bracket for directional control Pendant mount Wire Guard
Weight	12.5 to 16.0 kgs
Features	IIC as standard Heavy duty construction Glass colouring available High ambient temperature option available



Hazardous Area Equipment

6 Series EEx de 621 Bulkhead Range

Certification and Approval

Certification Code	Ex d IIC / Ex e/Ex tb IIIC Db T3 – T6 (See lamp tables for T rating)
Certification number	IECEX SIR 09.0028, SIRA 00 ATEX 1047
Certification standard	IEC 60079-0, 1, 7
Protection / Zoning	IP 66 / Zones 1, 2, 21, & 22

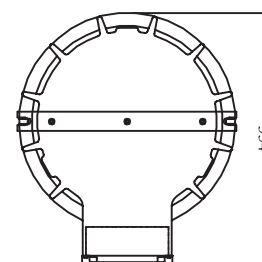
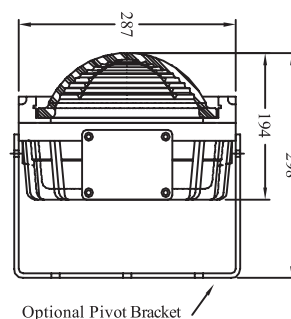
Features

Shallow profile for confined space
IIC as standard
Integral EEx e Terminal chamber
Heavy duty construction

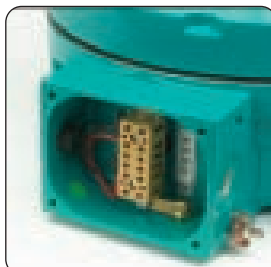
Options

Shallow profile for confined spaces
Cow and high temperature versions
Extended lamp range
Coloured glass range

FOR AMBIENT TEMPERATURE "T" RATINGS SEE TABLES AT REAR OF CATALOGUE



621 with wire guard



Terminal block access and
local external earthing



Coloured glass option

Technical Data

Supply Voltage	240v 50Hz Check for alternative voltages
Operating Temperature	-20°C to +40 °C standard supply For operation up to 90°C consult sales office prior to ordering
Control Gear (when Fitted)	Ballast, ignitor and capacitor all fitted within the luminaire
Lamp Options	Certified with elliptical lamps (Lamps not provided) 50w or 70w SON 50w, 80w or 125w HPMV/MBF Up to 200w GLS
Cable Entries	2 x M20 – ISO (1 plugged) as Standard Other threads available.
Terminals	4 (4mm) wire and earth with looping facility Cable crimping required at installation when looping
Mounting Facility	Back mounted fixing strap
Access	Terminals accessed via terminal cover retained by cap screw Lamp and gear accessed via removable glass dome
Material	Corrosion resistant marine grade aluminium body and bezel Toughened Borosilicate glass dome
Finish	2 Pack epoxy paint on primed surface. Standard colour - Aqua Additional costs for non standard colours
Accessories	Internal or external reflector Pivot bracket for directional control Pendant mount Wire Guard
Weight	12kgs to 14kgs lamp dependant
Features	IIC as standard Heavy duty construction Glass colouring available High ambient temperature option available



Hazardous Area Equipment

7 Series EEx d Standard Fluorescent Luminaire

Certification and Approval

Certification Code	Ex d IIC / Ex tb IIC Db T5 or T4 L (See lamp tables for T rating)
Certification number	IECEX SIR 09.0029X, SIRA 01 ATEX 1033
Certification standard	IEC 60079-0, 1
Protection / Zoning	IP 66 / Zones 1, 2, & 21 (Zone 22 pending)

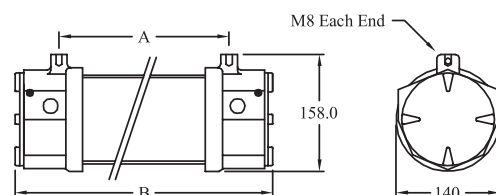
Features

High Impact Resistant Polycarbonate lens
Anodised marine grade Aluminium
50,000 hr electronic ballast
EOL lamp protection
Vibration resistant

Options

Wide range of voltage options
Large range of lamp options
IP68 versions
Through wiring

FOR AMBIENT TEMPERATURE "T" RATINGS SEE TABLES AT REAR OF CATALOGUE



Size	Model	A	B
1	8w	335	448
2	18w	632	752
4	36w	1242	1362
5	58w	1542	1662
6	70w	1806	1926

All dimensions in mm



Easy lamp change system



Threaded end cap



Threaded mounting point

Technical Data

Supply Voltage	230v 50/60Hz Check for alternative voltages
Operating Temperature	-20°C to +55°C standard supply subject to lamp and ambient temperature combinations (see table opposite).
Control Gear	Electronic instant start, Switch start
Lamp Options Cable Entries	8w (T5), 18w, 36w, 58w, 70w (T8) (Lamps not provided), 4 x M20 - 2 each end, (2 plugged) as standard
Terminals	3 wire and earth. Cable size 4mm² max Through wiring option available on 18w to 70w sizes
Mounting Facility	2 x M8 tapped holes vertical and horizontal at both ends.
Access	Terminals accessed via threaded end cover as is the gear tray which slides out.
Material	Corrosion resistant marine grade anodised aluminium body and high impact polycarbonate tube.
Finish	2 Pack epoxy paint on primed surface. Standard colour - Aqua Additional costs for non standard colours
Weight	Single Lamp 1 8w 3.0Kgs 2 18w 5.0Kgs 4 36w 7.0Kgs 5 58w 8.0Kgs 6 70w 9.0Kgs
Features	Highly versatile luminaire with large lamp and voltage ranges Durable and slim line construction Removable lamp assembly for ease of lamp change. High IP rating

Certification and Approval

Certification Code	Ex d IIC / Ex tb IIIC Db T5 or T4 L (See lamp tables for T rating)
Certification number	IECEX SIR 09.0029X, SIRA 01 ATEX 1033
Certification standard	IEC 60079-0, 1
Protection / Zoning	IP 66 / Zones 1, 2, & 22 (Zone 21 pending)

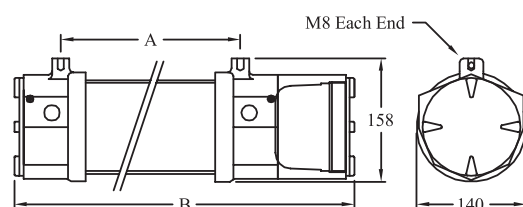
Features

Internally mounted batteries giving 3 hr duration
EOL lamp protection
50,000 hour electronic ballast

Options

Wide range of voltage options
Large range of lamp options
IP68 versions

FOR AMBIENT TEMPERATURE "T" RATINGS SEE TABLES AT REAR OF CATALOGUE



Size	Model	A	B
1	8w	335	535
2	18w	632	839
4	36w	1242	1449
5	58w	1542	1662

All dimensions in mm



Internal charger inverter



Separate battery chamber
(some sizes)



Terminal block access

Technical Data

Supply Voltage	230v 50/60Hz Check for alternative voltages. Suitable for central battery operation															
Operating Temperature	-20°C to +55°C standard supply subject to lamp and ambient temperature combinations (see table opposite).															
Control Gear	Electronic instant start, Switch start. One lamp lit in emergency mode															
Lamp Options	8w (T5), 18w, 36w, 58w, (Lamps not provided)															
Cable Entries	4 x M20 - 2 each end, (2 plugged) as standard															
Terminals	3 wire and earth. Cable size 4mm ² max Through wiring option available on 18w to 70w sizes															
Mounting Facility	2 x M8 tapped holes vertical and horizontal at both ends.															
Access	Terminals accessed via threaded end cover as is the gear tray which slides out.															
Material	Corrosion resistant marine grade anodised aluminium body and high impact polycarbonate tube.															
Finish	2 Pack epoxy paint on primed surface. Standard colour - Aqua Additional costs for non standard colours															
Weight	<table><tr><td>Size 1</td><td>8w</td><td>5.1Kgs</td></tr><tr><td>Size 2</td><td>18w</td><td>6.8Kgs</td></tr><tr><td>Size 3</td><td>36w</td><td>10.0Kgs</td></tr><tr><td>Size 4</td><td>58w</td><td>10.4Kgs</td></tr><tr><td>Size 5</td><td>70w</td><td>12.5Kgs</td></tr></table>	Size 1	8w	5.1Kgs	Size 2	18w	6.8Kgs	Size 3	36w	10.0Kgs	Size 4	58w	10.4Kgs	Size 5	70w	12.5Kgs
Size 1	8w	5.1Kgs														
Size 2	18w	6.8Kgs														
Size 3	36w	10.0Kgs														
Size 4	58w	10.4Kgs														
Size 5	70w	12.5Kgs														
Features	Highly versatile luminaire with large lamp and voltage ranges Durable and slim line construction Removable lamp assembly for ease of lamp change. High IP Rating															

Certification and Approval

Certification Code	Ex d IIC / Ex tb IIIC Db T5 or T4 L (See lamp tables for T rating)
Certification number	IECEX SIR 09.0029X, SIRA 01 ATEX 1033
Certification standard	IEC 60079-0, 1
Protection / Zoning	IP 66 / Zone 1, 2, & 22 (Zone 21 pending)

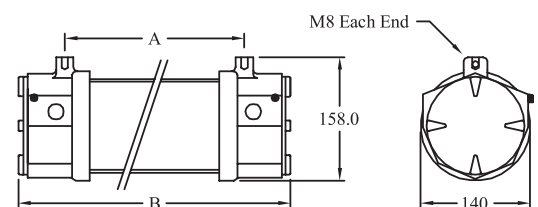
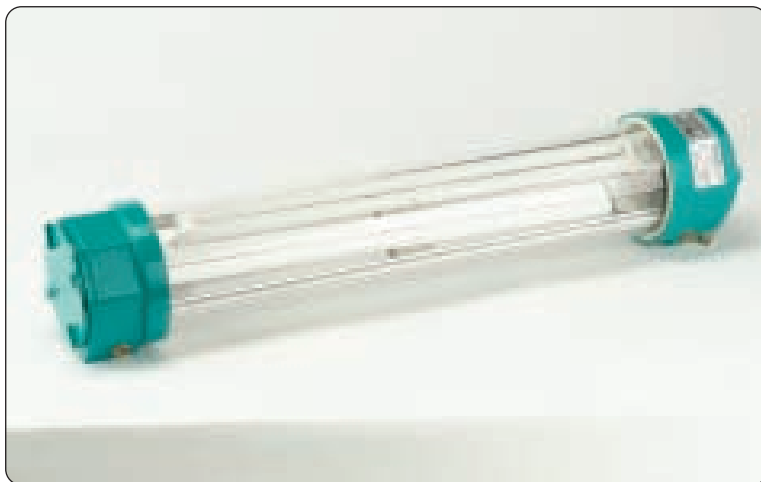
Features

Extended life using PL lamps
IIC as standard
Higher output – smaller fitting
50,000 hour electronic ballast

Options

Range of voltages
Through wiring
IP68 versions
Range of mountings

FOR AMBIENT TEMPERATURE “T” RATINGS SEE TABLES AT REAR OF CATALOGUE



Size	Model	A	B
1	8w	335	448
2	18w	632	752

All dimensions in mm



Gear tray access
and amp access



Lamp retaining clips
on tray



Through wiring connection
plug

Technical Data

Supply Voltage	230v 50Hz Check for alternative voltages. Suitable for central battery operation.						
Operating Temperature	-25°C to +52°C subject to lamp and ambient temperature combinations						
Control Gear	Electronic instant start, Switch start						
Lamp Options	11w, 18w,26w, 36w, 55w PL-S, PL-L, PL-C (Lamps not provided)						
Cable Entries	2 x M20 – ISO (1 plugged) as Standard Other threads available.						
Terminals	3 wire and earth. Cable size 4mm ² max Through wiring option available on 8w to 55w sizes						
Mounting Facility	2 x M8 tapped holes vertical and horizontal at both ends.						
Access	Terminals accessed via threaded end cover as is the gear tray which slides out						
Material	Corrosion resistant marine grade aluminium body and high impact polycarbonate tube.						
Finish	2 Pack epoxy paint on primed surface. Standard colour - Aqua Additional costs for non standard colours						
Weight	<table><tr><td>Size 1</td><td>11w, 18w, 26w</td><td>4.5Kgs</td></tr><tr><td>Size 2</td><td>18w,26w, 55w,</td><td>6.8Kgs</td></tr></table>	Size 1	11w, 18w, 26w	4.5Kgs	Size 2	18w,26w, 55w,	6.8Kgs
Size 1	11w, 18w, 26w	4.5Kgs					
Size 2	18w,26w, 55w,	6.8Kgs					
Features	IIC as standard Heavy duty construction High ambient temperature option available						



Hazardous Area Equipment

8 Series EEx de Adjustable angle Flood Light range

Certification and Approval

Certification Code	Ex d IIB / Ex e/Ex tb IIIC Db T2 – T3 (See lamp tables for T rating)
Certification number	IECEx SIR 09.0030, SIRA 01 ATEX 1035
Certification standard	IEC 60079-0, 1, 7
Protection / Zoning	IP 66 / Zone 1, 2, 21, & 22

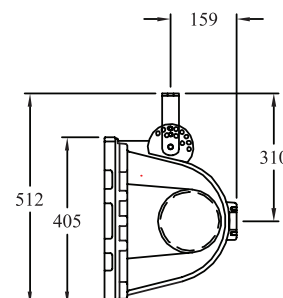
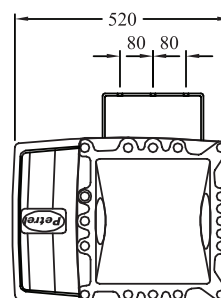
Features

Rapid re – lamping through threaded access cover
Narrow/Wide angle beam adjustment
Symmetrical reflector as standard
Integral EEx e Terminal chamber

Options

Mounting bracket options
0.9 power factor when fitted

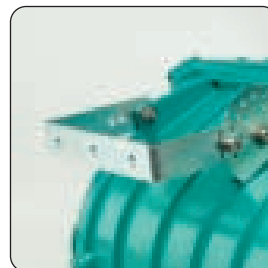
FOR AMBIENT TEMPERATURE “T” RATINGS SEE TABLES AT REAR OF CATALOGUE



Lamp access cover



Beam adjustment



Angular adjustment
mounting plate

Technical Data

Supply Voltage	230v 50Hz Check for alternative voltages and frequency.
Operating Temperature	-20°C to +55°C standard supply but subject to lamp, voltage and ambient temperature combinations .
Control Gear	Integral within the luminaire and optional power factor correction
Lamp Options	Tubular: SON, MBI, HPMV, Tungsten. Symmetrical reflector fitted to all versions. (Lamps not provided)
Cable Entries	2 x M20 – ISO (1 plugged) as Standard Other threads available.
Terminals	2 wire and earth. Cable size 6mm 2 max with looping facility
Mounting Facility	Rear pole mounting directly to body or for adjustable angle version order with “U” shaped stirrup and graduated angle bracket.
Access	Terminals accessed via EEx e terminal cover with 4 stainless steel fixings. Lamp change via threaded lamp cover for reduced maintenance time.
Material	Corrosion resistant marine grade aluminium body and covers and toughened Borosilicate glass.
Finish	2 Pack epoxy paint on primed surface. Standard colour - Aqua Additional costs for non standard colours.
Weight	SON, MBI, HPMV 33Kgs Tungsten 29Kgs
Features	Adjustable beam width Symmetrical reflector fitted to all versions Heavy Duty construction Directionally adjustable with stirrup mounting bracket

Certification and Approval

Certification Code	Ex d IIC / Ex e/Ex t IIIB Dc T5 – T4 (See lamp tables for T rating)
Certification number	IECEX SIR 08.0089, SIRA 00 ATEX 3071
Certification standard	IEC 60079-0, 11:2006. IEC 60079-1, 7:2007. IEC 61241-1:2004. IEC 60079-0:2007
Protection / Zoning	IP 65 / Zone 1, 2, & 22

Features

Integral isolation switch as standard
Single point locking action
EOL lamp shut down
High light output
Integral battery with 3 hr. duration on emergency versions

Options

Alternative voltages
Through wiring
Omission of isolation switch

FOR AMBIENT TEMPERATURE "T" RATINGS SEE TABLES AT REAR OF CATALOGUE



Size	Length	Fixing centres 100 up to
2x18w	760	450
2x36w	1365	1055
2x58w	1665	1355

All dimensions in mm



Single point diffuser release



Terminal block access



Rear mounting channel
for T bolt

Technical Data

Supply Voltage	230v 50/60Hz standard, 110v , 254v and 277v optional on some 18w and 36w. 60Hz also optional. Suitable for central battery operation.	
Operating Temperature	-20°C to +55°C standard supply subject to ambient temperature requirements.	
Control Gear	Electronic instant start ballast and integral charger inverter for emergency versions. EOL cut off. 3hr operation with internal battery subject to ambient temperature.	
Lamp Options	Twin 18w, 36w, 58w (Lamps not provided)	
Cable Entries	2 x M20 at each end (3 plugged as Standard)	
Terminals	3 wire and earth. Cable size 4mm ² max Through wiring option available	
Mounting Facility	2 x M8 "Quick fit" bolts available on variable centres for ease of mounting.	
Access	Terminals accessed via quick release diffuser and reflector.	
Material	Anodised corrosion resistant Aluminium and high impact polycarbonate diffuser and body mouldings. UV Resistant.	
Finish	Standard colour – Aqua body mouldings natural aluminium for body centre section	
Weight	Standard	Emergency
	2x 18w 6.8Kgs	7.0Kgs
	2 x 36w 10.4Kgs	11.2Kgs
	2 x 58w 12.0Kgs	13.0Kgs
Features	Excellent light output Heavy duty rigid construction Internal automatic isolation (may be omitted upon request) 110v , 254v and 277v available.	

9R Series EEx ed Standard and Emergency Recessed Fluorescent Luminaire

Certification and Approval

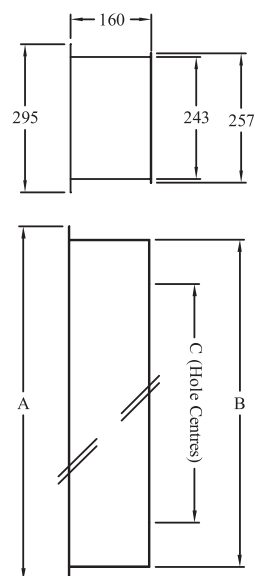
Certification Code	Ex d IIC / Ex E/Ex tc IIIB Dc T5 – T4 (See lamp tables for T rating)
Certification number	IECEX SIR 09.0039, SIRA 00 ATEX 3106
Certification standard	IEC 60079-0, 11:2006. IEC60079-1, 7:2007.
Protection / Zoning	IP 54 / Zone 1, 2, & 22

Features

Flush fitting – minimizing dust build up
EOL lamp shut down
Integral battery with 3hr duration on emergency versions
FOR AMBIENT TEMPERATURE “T” RATINGS SEE TABLES AT REAR OF CATALOGUE

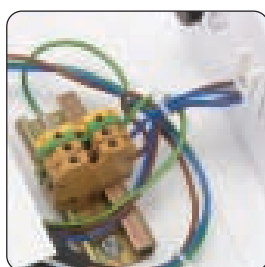
Options

Alternative voltages
Through wiring
Omission of isolation switch



Size	A	B	C
2 x 18	802	752	642
2 x 36	1402	1352	1242
2 x 58	1702	1652	1542

All dimensions in MM



Terminal block access



Rear mounting foot



Ballast & lamp
holder pack

Technical Data

Supply Voltage	230v 50/60Hz standard, 110v , 254v and 277 v optional on some 18w and 36w. 60Hz also optional. Suitable for central battery operation.	
Operating Temperature	-20°C to +55°C standard supply subject to ambient temperature requirements.	
Control Gear	Electronic instant start ballast and integral charger inverter for emergency versions. EOL cut off. 3hr operation with internal battery subject to ambient temperature.	
Lamp Options	Twin 18w, 36w, 58w T8 (Lamps not provided)	
Cable Entries	2 x M20 clearance holes at each end (3 plugged as Standard)	
Terminals	3 wire and earth. Cable size 4mm ² max Through wiring option available	
Mounting Facility	4 fixing holes on rear of enclosure.	
Access	Remove toughened glass front panel and quick release diffuser.	
Material	Polyester coated steel and toughened glass in an aluminium frame.	
Finish	Standard colour – White polyester coated	
Weight	Standard	Emergency
	2x 18w 12.0Kgs	10.0Kgs
	2 x 36w 14.0Kgs	13.0Kgs
	2 x 58w 15.0Kgs	15.0Kgs
Features	<p>Flush fitting closing panel minimising dust and bacterial build up</p> <p>Heavy duty rigid construction</p> <p>Internal automatic isolation (may be omitted upon request)</p> <p>110v , 254v and 277v available.</p>	

Certification and Approval

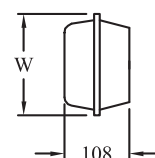
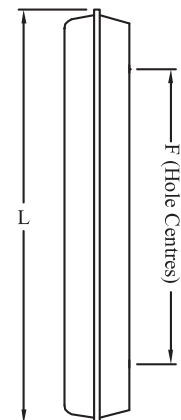
Certification Code	EEx nC II 3GD T4 -40°C to +55°C
Certification number	Epsilon 02 ATEX 1167, IEC Certification due 2011
Certification standard	EN 60079-0, 15
Protection / Zoning	IP 65 / Zone 2 & 22

Features

Unrestricted breathing
No vacuum test required
Integral battery with 3hr duration on emergency versions

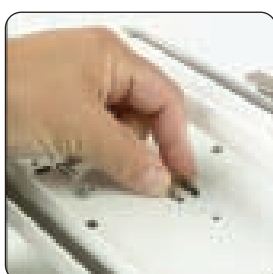
Options

Closed cell gasket
Push fit gear tray
Stainless steel clips



Size	L	W	F
1x36w	1312	102	800
1x58w	1612	102	1100
2x18w	702	172	500
2x36w	1312	172	800
2x58w	1612	172	1100

All dimensions in mm



Gear tray clips



Lamp mounting



Diffuser clips

Technical Data

Supply Voltage	230v 50/60Hz standard. Suitable for central battery operation.	
Operating Temperature requirements.	-40°C to +55°C standard supply subject to ambient temperature	
Control Gear	Electronic instant start ballast and integral charger inverter for emergency versions. EOL cut off. 3hr operation with internal battery subject to ambient temperature.	
Lamp Options	Twin 18w, 36w, 58w T8 (Lamps not provided) Single 36w and 58w T8 (Lamps not provided)	
Cable Entries	1 x M20 clearance holes at each end (1 plugged as Standard)	
Terminals	3 wire and earth. Cable size 4mm ² max Through wiring option available	
Mounting Facility	2 drill through fixing points on rear of enclosure or "snap on" stainless steel brackets or heavy duty "gull wing" bracket available	
Access	Quick release stainless steel clips to free diffuser and spring clips release gear tray.	
Material	GRP moulded body, polycarbonate diffuser and coated steel control gear tray. Stainless steel diffuser and tray retaining clips	
Finish	Standard colour – Light grey non coated moulding	
Weight	Standard	Emergency
	2x 18w 2.8gs	3.8Kgs
	2 x 36w 3.6gs	4.6Kgs
	2 x 58w 5.0Kgs	5.6Kgs
	1 x 36w 3.2kgs	4.0Kgs
	1 x 58w 3.4Kgs	4.2Kgs
Features	Resilient construction Poured seal or closed cell gasket Unrestricted breathing for minimum inspection requirements Easily maintained.	



Hazardous Area Equipment

457 Submersible Bulkhead Luminaire

Certification and Approval

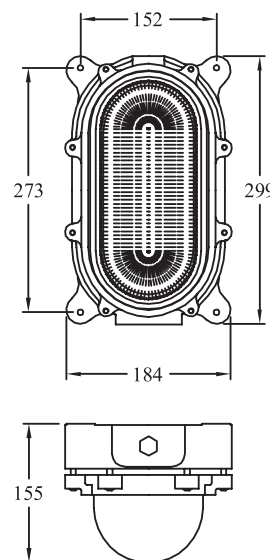
Certification Code	EEx nC II 3GD T6 or T3 (See lamp tables for T rating)
Certification number	03 ATEX TF457/01
Certification standard	EN 60079-0, 15
Protection / Zoning	IP 68 to 15M with appropriate glanding / Zone 2 & 22

Features

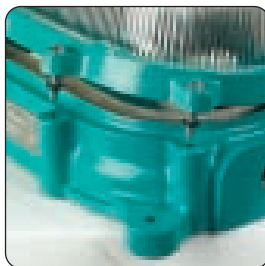
Heavy duty cast iron construction
Low projection and rounded profile
Ideal for culvert and water treatment works
High IP rating for arduous conditions

Options

Alternative voltages
Through wiring
Lamp source variants



Cable entry



Lamp access



Terminal block access

Technical Data

Supply Voltage	230v 50Hz standard..
Operating Temperature	-20°C to +40°C standard supply subject to ambient temperature requirements.
Control Gear	For use with GLS lamp or 25w compact fluorescent. No control gear required.
Lamp Options	150w GLS or 25w compact fluorescent, 70w SON (Lamps not supplied)
Cable Entries	x M20 Threaded entry. Available both ends as option
Terminals	2 wire and earth. Cable size 4mm ² max
Mounting Facility	4 cast in fixing lugs to take M8 screws.
Access	Remove bezel retaining screws to release glass lens and gasket
Material	Cast iron body and bezel, glass lens and coated wire guard
Finish	2 Pack epoxy paint on primed surface. Standard colour – Aqua and white plastic coated guard Additional costs for non standard colours.
Weight	9.0Kgs
Features	Very heavy construction. Low projection and rounded profile Ideal for culvert and water treatment works High IP rating for arduous conditions



Hazardous Area Equipment

DN Series Bulk head Luminaire

Certification and Approval

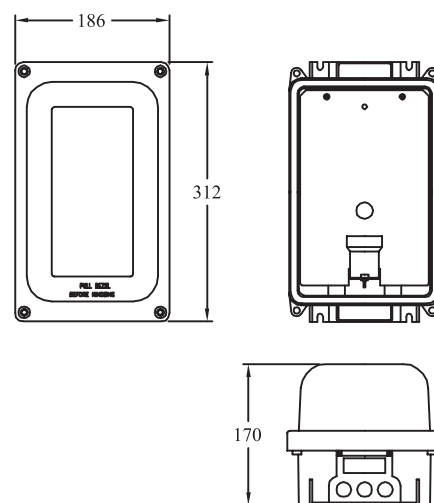
Certification Code	EEx nC II 3GD T3 (See lamp tables for T rating)
Certification number	03 ATEX TFDN/01
Certification standard	EN 60079-0, 15
Protection / Zoning	IP 65 / Zone 2 & 22

Features

Rapid lamp and control gear access
Even light distribution
Hinged lens opening

Options

Lamp source variants
Power factor correction
Various lamp options available



Hinged lens opening



Screwed bezel fixings



Integral mounting feet

Technical Data

Supply Voltage	230v 50Hz standard.			
Operating Temperature	-20°C to +30°C standard supply subject to ambient temperature requirements.			
Control Gear	Integral within the luminaire and optional power factor correction			
Lamp Options	Elliptical: 70w SON 80w HPMV 200w GLS Twin 26w PL			
Cable Entries	2 x M20 Threaded entries at one end (1 plugged).			
Terminals	2 wire and earth. Cable size 4mm² max			
Mounting Facility	4 cast in fixing lugs to take M8 screws.			
Access	Unscrew retaining screws to open hinged lens.			
Material	Die cast aluminium body and bezel and borosilicate glass lens			
Finish	Grey Powder coating or 2 Pack epoxy paint on primed surface. Additional costs for non standard colours.			
Weight	70w and 80w	6.0Kgs	200w	4.0Kgs
Features	Rapid lamp and control gear access Even light distribution Various lamp options available			



Hazardous Area Equipment

ZT Adjustable Angle Flood Light Range

Certification and Approval

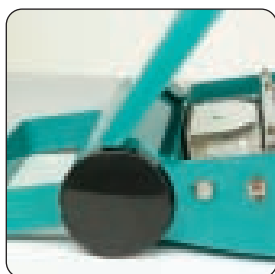
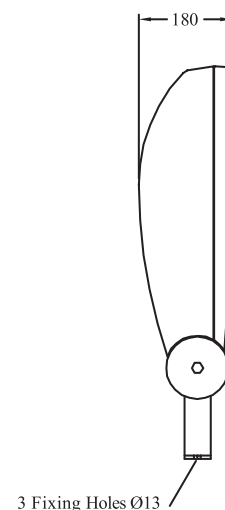
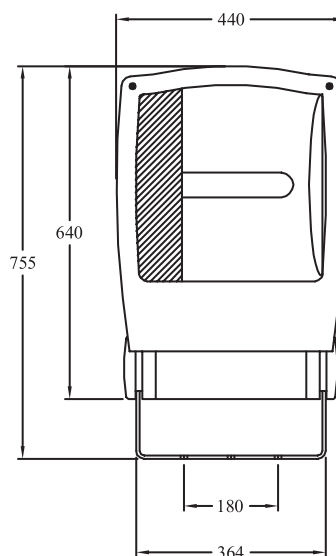
Certification Code	EEx nR II 3GD T3
Certification number	05 ATEX TFZT/01
Certification standard	EN 60079-0, 15
Protection / Zoning	IP 66 / Zone 2 & 22

Features

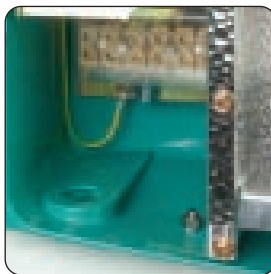
Symmetrical reflector fitted to all versions
Easy lamp access
Robust construction
Directionally adjustable with stirrup mounting bracket

Options

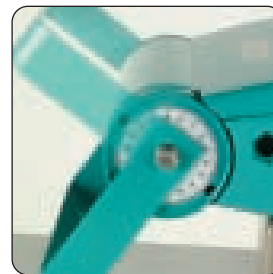
Lamp source variants
Power factor correction
Non standard colour



Hinged lens opening



Cable entry and termination block



Adjustable angle mounting stirrup

Technical Data

Supply Voltage	230v 50Hz standard..
Operating Temperature	-20°C to +30°C standard supply subject to ambient temperature requirements.
Control Gear	Integral within the luminaire and optional power factor correction when fitted.
Lamp Options	Tubular: SON, MBI, Tungsten. 70w to 500w Asymmetrical reflector fitted to all versions. (Lamps not provided)
Cable Entries Terminals	1 x M20 clearance hole in side of body. 2 wire and earth. Cable size 4mm ² max
Mounting Facility	“U” shaped stirrup bracket with angle adjustment mechanism.
Access	Unscrew 2 stainless steel screws in hinged glass retaining frame.
Material	Corrosion resistant die cast aluminium and toughened glass lens.
Finish	2 Pack epoxy paint on primed surface. Standard colour – Aqua .Additional costs for non standard colours.
Weight	19.5Kgs to 21Kgs Lamp dependant.
Features	Symmetrical reflector fitted to all versions Robust construction Directionally adjustable with stirrup mounting bracket

Certification and Approval

Industrial Luminaire

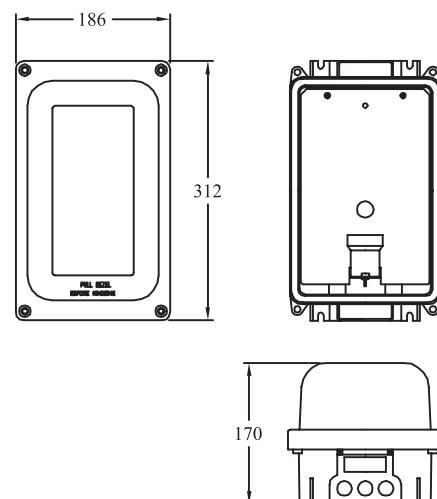
Bulk head fitting suitable for non hazardous industrial and commercial applications
Available in a range of lamp formats including energy efficient PL's Emergency version
with integral battery available with PL lamps (not supplied) Ingress Protection IP 65

Features

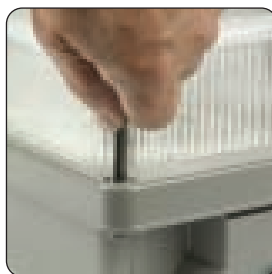
Hinged lens opening
Rapid lamp and control gear access
Even light distribution

Options

Lamp source variants
Power factor correction
Various lamp options available



Hinged lens opening



Screwed bezel fixings



Integral mounting feet

Technical Data

Supply Voltage	230v 50Hz standard..
Operating Temperature	-20°C to +25°C standard supply subject to ambient temperature requirements.
Control Gear	Integral within the luminaire and optional power factor correction. Emergency version available for PL lamps
Lamp Options	Elliptical: 70w SON 80w HPMV 200w GLS PL 28w
Cable Entries	2 x M20 Threaded entries at one end (1 plugged).
Terminals	2 wire and earth. Cable size 4mm ² max
Mounting Facility	4 cast in fixing lugs to take M8 screws.
Access	Unscrew retaining screws to open hinged lens.
Material	Die cast aluminium body and bezel and borosilicate glass lens
Finish	Grey powder coated or 2 Pack epoxy paint on primed surface. Additional costs for non standard colours.
Weight	70w and 80w 8.0Kgs 200w 6.5Kgs PL 7.0 Kgs PL emergency 8.0 Kgs
Features	Rapid lamp and control gear access Even light distribution Various lamp options available

Certification and Approval

Certification Code	EEx d II 2 GD IIB T4, T5 or T6 (contents dependant)
Certification number	Demko 03 ATEX 134333X
Certification standard	EN 50014, EN 50018
Operating temperature	-20°C to +40°C
Protection	IP65 / IP66

Features

Heavy duty cast enclosures
Wide size range for efficient use of space
Close coupling option for Isolation unit if required
Cable entries M20 to M75

Ordering Equipment - information required

Kilowatt rating
Cable entry size
Cable entry quantity
Starter type, DOL , Star Delta, Reversing 2 speed etc
Other specific requirements

Full load current
Cable size
Voltage and frequency



G27 and G23 control panels



G21 starter



Socket G23 starter isolator



Cable entry positioning

Standard Ranges

Motor starters	0.25kw to 350kw Direct on Line, Star Delta and Reversing
Optional Extras	Isolators, Status Indicators, Transformers Relays, Fuses, switches
G2I Units	Control stations up to 4 gang with shrouded or mushroom head and stay put options Switches up to 6 pole 10 amp or 3 pole 24 amp.
Finish	2 pack grey epoxy coating over etching primer. Other colours at additional cost

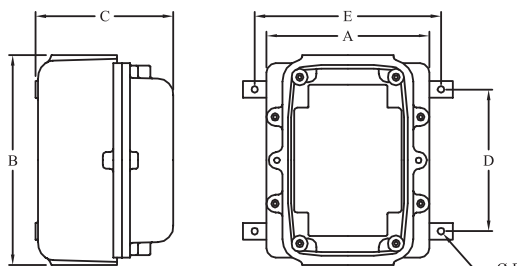
Dimensional table

		a	b	c	d	e	f	Wt kgs
G21	Fe	180	155	145	130	195	7	9
G22	Fe	205	205	156	160	230	9	19
G23	Al	248	316	211	218	230	14	13
G24	Al	321	361	228	291	320	9	21
G25	Al	366	406	228	250	370	11	25
G26	Fe	416	456	228	300	410	11	50
G27	Al	486	516	228	350	480	14	49
G28	Al	586	670	294	480	580	14	96

Viewing Windows

Code	Viewing Diameter
W2	22mm
W3	45mm
W4	70mm
W5	105mm

Typical Enclosure Arrangement



A = Box Width
B = Box Height
C = Box Depth
D = Fixing Centre Height
E = Fixing Centre Width
F = Diameter Of Fixing Holes

NB.
Enclosures Can Be Close Coupled Together
At Either End

EExd IIB Standard Units

Direct on Line Starters	Without Isolator	Supply
5.5 KW	S1/G21/5.5	415/3/50
7.5 KW	S1/G21/7.5	415/3/50
11 KW	S1/G22/11	415/3/50
15 KW	S1/G22/15	415/3/50
22 KW	S1/G23/22	415/3/50
30 KW	S1/G23/30	415/3/50
37 KW	S1/G24/37	415/3/50
55 KW	S1/G24/55	415/3/50
Direct on Line Starters	With Isolator	Supply
5.5 KW	S1X/G22/5.5	415/3/50
7.5 KW	S1X/G22/7.5	415/3/50
11 KW	S1X/G23/11	415/3/50
15 KW	S1X/G23/15	415/3/50
22 KW	S1X/G24/22	415/3/50
30 KW	S1X/G24/30	415/3/50
37 KW	S1X/G24/37	415/3/50
55 KW	S1X/G25/55	415/3/50
Star Delta Starters	Without Isolator	Supply
11 KW	S5/G24/11	415/3/50
15 KW	S5/G24/15	415/3/50
22 KW	S5/G25/22	415/3/50
30 KW	S5/G25/30	415/3/50
37 KW	S5/G25/37	415/3/50
55 KW	S5/G27/55	415/3/50
Star Delta Starters	With Isolator	Supply
11 KW	S5X/G24/11	415/3/50
15 KW	S5X/G24/15	415/3/50
22 KW	S5X/G25/22	415/3/50
30 KW	S5X/G25/30	415/3/50
37 KW	S5X/G25/37	415/3/50
55 KW	S5X/G27/55	415/3/50

Certification and Approval

Certification Code	EEx d II 2 GD IIB T4, T5 or T6 (contents dependant)
Certification number	Demko 03 ATEX I34333X
Certification standard	EN 50014, EN 50018
Operating temperature	-20°C to +40°C
Protection	IP65

Features

High quality heavy duty cast enclosures
Wide size range for efficient use of space
Close coupling option for Isolation unit if required
Cable entries M20 to M75.

Ordering Equipment - information required

Kilowatt rating	Full load current
Cable entry size	Cable size
Cable entry quantity	Voltage and frequency
Starter type, DOL, Star Delta, Reversing 2 speed etc	
Other specific requirements	



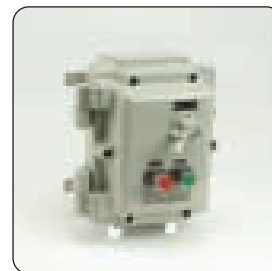
G26 control panel



Typical panels



Cable entry positioning



Starter isolator

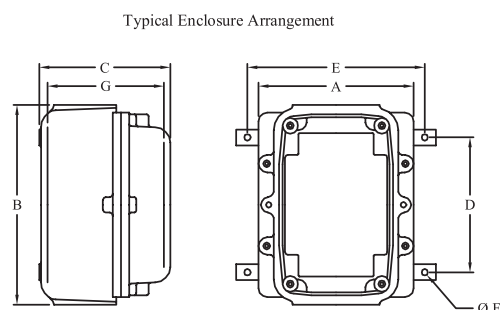
Standard Ranges

Motor starters	0.25kw to 350kw Direct on Line, Star Delta and Reversing
Optional Extras	Isolators, Status Indicators, Transformers Relays, Fuses, switches
Distribution	Up to 600A MCB/MCCB panels, RCCD protection, Fuse boards, Isolator/switch disconnectors
G2I Units	Control stations up to 4 gang with shrouded or mushroom head and stay put options Switches up to 6 pole 10 amp or 3 pole 24 amp.
Finish	2 pack grey epoxy coating over etching primer. Other colours at additional cost.

Dimensions and Weights				IIB Enclosures					Weight
Code	Material	External			Mounting				
		Dimension				Dimension			
		A	B	C	D	E	F	G	Kg
G2-21	Fe	180	155	145	130	195	7	100	9
G2-22	Fe	205	205	156	160	230	9	117	19
G2-26	Fe	416	456	228	300	410	14	169	50
G2-23	Al	248	316	211	218	230	9	167	13
G2-24	Al	321	361	228	291	320	11	179	21
G2-25	Al	366	406	228	250	370	11	177	25
G2-27	Al	486	516	228	350	480	14	169	49
G2-28	Al	586	670	294	480	580	14	216	96

Viewing Windows

Code	Viewing Diameter
W2	22mm
W3	45mm
W4	70mm
W5	105mm



A = Box Width
B = Box Height
C = Box Depth
D = Fixing Centre Height
E = Fixing Centre Width
F = Diameter Of Fixing Holes
G = Internal Depth From Base Plate

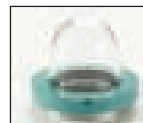
NB.
Enclosures Can Be Close Coupled Together
At Either End

610 Beacon – Zone I



Standard	Part Number	Part Number
Size	Standard Luminare	Light Unit
Xenon Flasher 5J – Clear	610X5J230	XF5J230
Xenon Flasher 5J – Red	610X5J230R	XF5J230
Xenon Flasher 10J – Clear	610X10J230	XF10J230
Xenon Flasher 10J – Red	610X10J230R	XF10J230
Rotating Beacon – Clear	1H600615411	-
Rotating Beacon – Red	1H600615412	-

610 Well Glass – Zone I



Standard	Part Number
Size	Standard Luminare
150 watt GLS	1H60061501
70 watt SON	1H600615114C
70 watt SON + Reflector	1H600615144
80 watt MBF	1H600615214
125 watt MBF	1H600615224
Wire Guard	3H690615000
Replacement glass - Clear	2H69004080
Replacement glass - Red	2H69004081

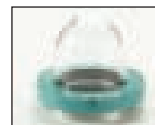
620 Well Glass – Zone I

620 QL long life– Zone I



Standard	Part Number	Part Number
Size	Standard Luminare	High Temperature Luminare
200 watt GLS	-	1H60062002
300 watt GLS	1H60062001C	1H61062001
150 watt SON/MBI	1H600620114C	1H610620114
250 watt SON I	1H600620124C	1H610620124
250 watt MBI	1H600620224C	-
125 watt MBF	1H600620214C	-
250 watt MBF	1H600620324C	-
55 watt QL long life	1H600620555	-
85 watt QL long life	1H600620585	-
Wire Guard	6H24120010	6H24120010
Replacement glass - Clear	3H69004035	3H69004037

621 Bulkhead – Zone I



Standard	Part Number	Part Number
Size	Standard Luminare	High Temperature Luminare
200 watt GLS	1H60062121C	1H61062121
70 watt SON	1H60062128C	1H61062128
80 watt MBF	1H60062124C	1H61062124
125 watt MBF	1H60062126C	-
Wire Guard	5H17410003	5H17410003
Replacement glass - Clear	2H69004041	2H69004033
Replacement glass - Red	3H69004180	-

6 Series Mounting Units



Item	Part Number
620/621 Swivel Stirrup Bracket	4H25180262
610/620/621 Eyebolt	6H34111177

8 Series Flood Light– Zone I



Standard	Part Number	Part Number	Part Number
Size	Luminare	Ballast	Swivel Stirrup Bracket
150 watt SON/MBI	1H608150045	6H31381150	8/STIRUPMNT
250 watt SON/MBI	1H608250045	6H31381250	8/STIRUPMNT
400 watt SON/MBI	1H608400045	6H31381400	8/STIRUPMNT
500 watt Halogen	1H608500045	-	8/STIRUPMNT



ZT Flood Light – Zone II

Standard	Part Number	Part Number
Size	Luminare	Ballast
150 watt SON/MBI	ZT150SON	6H31381150
250 watt SON/MBI	ZT250SON	6H31381250
400 watt SON/MBI	ZT500HAL	6H31381400
500 watt Halogen	ZT500HAL	-

7 Series (Eex d) – Zone I



Standard	Part Number	Part Number	Part Number	Part Number	Part Number
Size	Luminare	Ballast	Charger Inverter	Battery	Eyebolt
1 X 8 watt	1H60701199	6H31379074	-	-	6H34111177
1 X 18 watt	1H60702199	6H31375035V	-	-	6H34111177
1 x 36 watt	1H60704199	6H31376001	-	-	6H34111177
1 x 58 watt	1H60705199	6H31376002	-	-	6H34111177
1 x 70 watt	1H60706199	6H31376186	-	-	6H34111177
2 x 8 watt	1H60701299	6H31379074	-	-	6H34111177
2 X 18 watt	1H60702299	6H31375035V	-	-	6H34111177
2 x 36 watt	1H60704299	6H31376001	-	-	6H34111177
2 x 58 watt	1H60705299	6H31376002	-	-	6H34111177
2 x 70 watt	1H60706299	6L144069	-	-	6H34111177
Emergency					
1 X 8 watt Maintained	1H60711199	6H31379074	6H38400029	6H38400026	6H34111177
1 X 8 watt Non Maintained	1H60711099	-	6H38400025	6H38400026	6H34111177
1 X 18 watt Maintained	1H60714199	6H31375035V	6H38400027	6H38400028	6H34111177
1 x 36 watt Maintained	1H60715199	6H31376001	6H38400027	6H38400036	6H34111177
1 x 58 watt Maintained	1H60716199	6H31376002	6H38400035	6H38400034	6H34111177
2 x 8 watt Sustained	1H60711299	6H31379074	6H38400029	6H38400026	6H34111177
2 x 18 watt Maintained	1H60712299	6H31375035V	6H38400027	6H38400028	6H34111177
2 x 36 watt Maintained	1H60714299	6H31376001	6H38400027	6H38400036	6H34111177
2 x 88 watt Maintained	1H60715299	6H31376002	6H38400035	6H38400034	6H34111177

9 Series (Eex ed) – Zone I



Standard	Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
Size	Luminare	Diffuser	Ballast Pack	Battery	T Bolts	Gull Wing bracket
2 X 18 watt	1H60902185	6H23400092	2H69001218LH	-	6H61321830	GULWINGBRKIT
2 X 36 watt	1H60902365	6H23400094	2H69001236LH	-	6H61321830	GULWINGBRKIT
2 x 58 watt	1H60902585	6H23400095	2H69001258LH	-	6H61321830	GULWINGBRKIT
Emergency						
2 X 18 watt	1H60912185	6H23400092	2H69002218LH	6H38409003A	6H61321830	GULWINGBRKIT
2 X 36 watt	1H60912365	6H23400094	2H69002236LH	6H38409003A	6H61321830	GULWINGBRKIT
2 X 58 watt	1H60912585	6H23400095	2H69002258LH	6H38409004A	6H61321830	GULWINGBRKIT

Fluorescent Luminaires and Spares and Accessories

Exen (EEx nC) – Zone II



Standard	Part Number	Part Number	Part Number	Part Number	Part Number
Size	Luminaire	Diffuser	Ballast Pack	Emergency Pack	Battery
1 X 36 watt	XN136/HF	A700002B	2H69011136LH	-	-
1 x 58 watt	XN158/HF	A700003C	2H69011158LH	-	-
2 X 18 watt	XN218/HF	A700019D	2H69011218LH	-	-
2 X 36 watt	XN236/HF	A700004E	2H69011236LH	-	-
2 x 58 watt	XN258/HF	A700005F	2H69011258LH	-	-
Emergency					-
1 X 36 watt	XN136/HF/EM	A700002B	2H69011136LH	XN136/CHINVEM	6H38409003
1 x 58 watt	XN158/HF/EM	A700003C	2H69011158LH	XN158/CHINVEM	6H38409004
2 X 18 watt	XN218/HF/EM	A700019D	2H69011218LH	XN218/CHINVEM	6H38409003
2 X 36 watt	XN236/HF/EM	A700004E	2H69011236LH	XN236/CHINVEM	6H38409003
2 X 58 watt	XN258/HF/EM	A700005E	2H69011258LH	XN258/CHINVEM	6H38409004

Exen Continued



Standard	Part Number	Part Number	Part Number	Part Number	Part Number
Size	Luminaire	Stainless Mounting Clip	Gull wing Bracket	Diffuser Clip	Gear Tray Clip
1 X 36 watt	XN136/HF	2415A	GULLWINGBRKIT	G001328A	G000904A
1 X 58 watt	XN158/HF	2415A	GULLWINGBRKIT	G001328A	G000904A
2 X 18 watt	XN218/HF	2416A	GULLWINGBRKIT	G001328A	G000904A
2 X 36 watt	XN236/HF	2416A	GULLWINGBRKIT	G001328A	G000904A
2 x 58 watt	XN258/HF	2415A	GULLWINGBRKIT	G001328A	G000904A
1 X 36 watt	XN136/HF/EM	2415A	GULLWINGBRKIT	G001328A	G000904A
1 x 58 watt	XN158/HF/EM	2415A	GULLWINGBRKIT	G001328A	G000904A
2 X 18 watt	XN218/HF/EM	2416A	GULLWINGBRKIT	G001328A	G000904A
2 X 36 watt	XN236/HF/EM	2416A	GULLWINGBRKIT	G001328A	G000904A
2 X 58 watt	XN258/HF/EM	2416A	GULLWINGBRKIT	G001328A	G000904A

DN Bulkhead – Zone II



Standard	Part Number	Part Number
Size	Luminaire	Glass Assembly
200 watt GLS	1TL6055053	6TL27681009
70 watt SON	1TL2055051	6TL27681009
80 watt MBF	1TL4055052	6TL27681009



Standard	Part Number	Part Number
Size	Luminaire	Glass Assembly
200 watt GLS	1TL1055050	6TL27681009
70 watt SON	1TL1055047	6TL27681009
80 watt MBF	1TL3055048	6TL27681009



Standard	Part Number	Part Number
Size	Luminaire	Glass Assembly
150 watt GLS	1H60045701	6H23241007

Ambient Temperatures 'T' ratings

610 Beacon

Static Beacons:	T4 @ Ta = 40°C GLS
	T4 @ Ta = 70°C SL/PLCE
Xenon warning lights:	T4 @ Ta = 55°C
Rotating:	T4 @ Ta = 70°C

610 Well Glass

Certified with elliptical lamps.	
Max. 150w GLS	T4 @ Ta = 40°C
50 or 70w SON-E	T4 @ Ta = 40°C
110w SON-E	T4 @ Ta = 40°C
70w SON-R	T3 @ Ta = 55°C
50w or 80w HPMV/MBF	T4 @ Ta = 40°C
125w HPMV/MBF	T3 @ Ta = 35°C
Max. 25w SL or 20w PLCE	T4 @ Ta = 70°C
All with ES (E27) lampholder.	
Up to 150w GLS BC also available T4 @ Ta = 40°C	
Lamps are not included.	
N.B. temp. classifications can be improved if mounted vertically.	

620 Well Glass

Certified with elliptical lamps	
Max. 200w GLS	T3 @ Ta = 55°C.
125w HPMV/MBF	T4 @ Ta = 40°C or T3 @ Ta = 60°C
Max. 25w SL or 20w PLCE	T6 @ Ta = 40°C or T5 @ Ta = 60°C
All with ES (E27) lampholder	

300w GLS	T3 @ Ta = 55°C
150w SON	T4 @ Ta = 40°C or T3 @ Ta = 60°C
250w SON I	T3 @ Ta = 40°C
250w MBI	T3 @ Ta = 40°C
250w HMPV/MBF	T3 @ Ta = 39°C

All with GES (E40) lampholder.

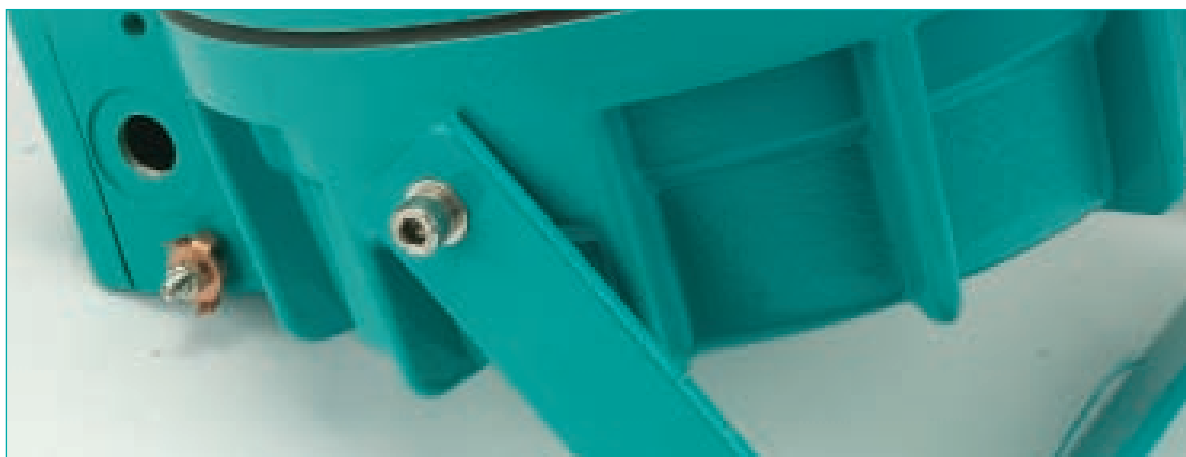
Standard temperature classification applies to all methods of mounting.
Up to 200w GLS BC also available.

Lamps are not included

High temperature version (at extra cost).

300w GLS	T3 @ Ta = 85°C
150w SON	T3 @ Ta = 90°C
250w SON-I	T3 @ Ta = 70°C
250w MBI	T3 @ Ta = 70°C
125w HPMV	T3 @ Ta = 90°C
250w HPMV	T2 @ Ta = 65°C or T3 @ Ta = 50°C

N.B. For Ta up to 60°C cable must be suitable for 116°C operation. Above Ta 60°C cable must be suitable for 146°C operation



Lamp tables and 'T' ratings for ambient temperatures

621 Bulkhead

Certified with elliptical or tubular lamps.

Max. 200w GLS

50w or 70w SON

or

50w or 80w HPMV/MBF

or

125w HPMV/MBF

Max. 25w SL or 20w PLCE

or

All with ES (E27) lampholder.

Up to 200w BC also available.

High temperature version (at extra cost).

200w GLS

70w SON

80w HPMV/MBF

125w HPMV/MBF

25w SL or 20w PLCE

Lamps not included

N.B. For Ta up to 60°C cable must be suitable for 116°C operation. Above Ta 60°C cable must be suitable for 146°C operation.

T4 @ Ta = 34°C

T4 @ Ta = 40°C

T3 @ Ta = 60°C

T4 @ Ta = 40°C

T3 @ Ta = 60°C

T4 @ Ta = 40°C

T6 @ Ta = 70°C

T5 @ Ta = 60°C

T4 @ Ta = 34°C

T3 @ Ta = 60°C

T3 @ Ta = 90°C

T3 @ Ta = 90°C

T3 @ Ta = 70°C

T5 @ Ta = 60°C

7 series Compact

Lamp source options: Standard fluorescent

Size 1

1 or 2 x 11w max PL-S

T4 @ Ta = 52°C

1 or 2 x 18w max PL-L

1 or 2 x 26w max PL-C

T5 @ Ta = 40°C

1 or 2 x 36w max PL-L

T6 @ Ta = 40°C

1 or 2 x 55w max PL-L (HF only)

T6 @ Ta = 40°C

Emergency fluorescent

Size 1

1 x 18w max PL-L EM

T4 @ Ta = 52°C

Size 2

1 x 2 x 36w max PL-L EM

T6 @ Ta = 40°C

8 series Flood Light

Lamp source options:

80w, 250w HPMV

T3 @ Ta = 55°C (D=TI47°C)

With ES (E27) lampholder.

150w, 250w SON

T3 @ Ta = 55°C (D=TI47°C)

250w MBI

T3 @ Ta = 55°C (D=TI47°C)

500w Tung Halogen

T3 @ Ta = 55°C (D=TI75°C)

250w HPMV

T3 @ Ta = 55°C (D=TI47°C)

400w SON/MBI

T3 @ Ta = 40°C (D=TI47°C)

400w, HPMV

T3 @ Ta = 40°C (D=TI47°C)

500w, Tung Halogen

T3 @ Ta = 55°C (D=TI73°C)

150w, 250w SON

T3 @ Ta = 40°C (D=TI27°C)

7 series Fluorescent

Lamp source options: Certification data: All options certified for -25°C

8w T5 @ Ta = 40°C

T4 @ Ta = 52°C EEx d IIC

18w T6 @ Ta = 40°C

T5 @ Ta = 55°C EEx d IIC

36w T6 @ Ta = 40°C

T5 @ Ta = 55°C EEx d IIB

58w T6 @ Ta = 40°C

T5 @ Ta = 55°C EEx d IIB

70w T5 @ Ta = 40°C

T4 @ Ta = 55°C EEx d IIB

9 series Fluorescent

All options certified for -20°C to +55°C

All variations:

T5 @ Ta 25°C

T4 @ Ta 55°C

Emergency Range

Lamp source options: Certification data: All options certified for -25°C

8w T6 @ Ta = 40°C

T6 @ Ta = 52°C EEx d IIC

18w T6 @ Ta = 40°C

T5 @ Ta = 55°C EEx d IIC

36w T6 @ Ta = 40°C

T5 @ Ta = 55°C EEx d IIB

58w T6 @ Ta = 40°C

T5 @ Ta = 55°C EEx d IIB

9R series Fluorescent

All options certified for -20°C to +55°C

EEx ed IIC

T5 @ Ta 25°C or T4 @ 55°C

Round Boxes	Size	Finish	Part Number
Terminal box - 1 Way	20mm	Zinc Plate	9121G
Through box - 2 Way	20mm	Zinc Plate	9123G
Angle box - 2 Way	20mm	Zinc Plate	9125G
Tee box - 3 way	20mm	Zinc Plate	9129G
Intersection box - 4 way	20mm	Zinc Plate	9132G
Couplers			
Standard	20mm	Zinc Plate	9402G
Standard	25mm	Zinc Plate	9403G
Standard	20mm	Black	9402B
Standard	25mm	Black	9403B
Running	20mm	Zinc Plate	9412G
Running	25mm	Zinc Plate	9413G
Running	20mm	Black	9412B
Running	25mm	Black	9413B
Flanged with Brass Bush	20mm	Zinc Plate	9432G
Flanged with Brass Bush	25mm	Zinc Plate	9433G
Flanged with Brass Bush	20mm	Black	9432B
Flanged with Brass Bush	25mm	Black	9433B
Adaptors			
Male Tread to Clip In	20mm	Zinc Plate	9002G
Male Tread to Clip In	25mm	Zinc Plate	9003G
Male Tread to Clip In	20mm	Black	9002B
Male Tread to Clip In	25mm	Black	9003B



GRP Junction Boxes

OSGP Type



APPLICATION

The OSGP GRP junction boxes have proven their use in many sectors of industry. The OSGP GRP enclosure comprise 5 sizes of enclosure manufactured in Glass Fibre Reinforced Polyester (GRP). This material is highly resistant to contamination from oils, fats, aliphatic and also is suitable for LSOH (low smoke zero halogen) applications. Polyester gives excellent mechanical strength and life expectancy. The OSGP enclosures are suitable for use with in hazardous areas and can be supplied certificates, such as ATEX and IECEx

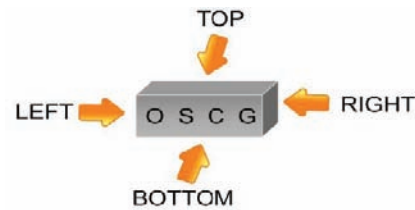


TECHNICAL INFORMATION / SPECIFICATIONS

Material : Glass Fibre Reinforced Polyester (GRP)
Area Classification : Zone 1, Zone 2, Zone 21 and Zone 22
Ingress Protection : IP66, IP67 -EN/IEC 60529
Wide Operating Temperature : 70°+130°
Certificate : ATEX Eex e , IECEx e
Impact Resistance : 7Nm (EN50014)
Color : RAL9005 Black
Toxicity : Low Smoke Halogen-Free
V-O Self Extinguishing, UL94
Gasket : Silicon rubber
Mounting : Integral 4.5mm clearance holes moulded into the body
Earthing : Optional M6 internal/external earth stud, brass or stainless steel
Surface Insulation Resistance : $10^6 \text{ Ohm} \leq \text{black} \leq 10^9 \text{ Ohm}$,

CERTIFICATION:

IECEx. ATEX



TYPE DESIGNATION:

The COMPLETE MODEL No is as follows :
OSGP1 4 M O T 1

① ② ③ ④ ⑤ ⑥

MODEL TYPE

Type	W(width) * H(height) * D(depth)			Weight empty(g)
	W	H	D	
OSGP1	122	120	90	750g
OSGP2	220	120	90	1060g
OSGP3	160	160	90	1060g
OSGP4	260	160	90	1170g
OSGP5	360	160	90	2150g

	OSGP1	OSGP2	OSGP3	OSGP4	OSGP5
WDU2.5	1*12	1*30	1*20	1*36	1*52
WDU4	1*11	1*28	1*18	1*33	1*48
WDU6	1*11	1*22	1*13	1*27	1*40

[** Terminal block is WDU series or equivalent products.]

	OSGB1		OSGB2		OSGB3		OSGB4		OSGB5	
	T+B	L+R	T+B	L+R	T+B	L+R	T+B	L+R	T+B	L+R
M20/ NPT1/2"	4	2	6	2	8	6	14	6	20	6
M25/ NPT3/4"	2	1	5	1	3	2	6	2	9	2
M32/ NPT1"	1	1	3	1	2	1	4	1	6	1

[** T+B : Top+Bottom, L+R: Left+Right]

No.	DESCRIPTION	SYMBOL	DETAIL
1	BASIC MODE	OSGP1	122*120*90(mm)
		OSGP2	220*120*90(mm)
		OSGP3	160*160*90(mm)
		OSGP4	260*160*90(mm)
		OSGP5	360*160*90(mm)
2	TB SIZE(SQ)	2.5	2.5SQ
		04	4SQ
		06	6SQ
		10	10SQ
		16	16SQ
3	ENTRY THREAD TYPE	M	METRIC
		NPT	NPT
4	ENTRY SIZE	0	M16 OR NPT 1/2"
		1	M20 OR NPT 1/2"
		2	M25 OR NPT 3/4"
		3	M32 OR NPT 1"
5	ENTRY SIZE	T	TOP SIDE
		B	BOTTOM SIDE
		L	LEFT SIDE
		R	RIGHT SIDE
6	Q'TY OF ENTRY(EA)	01	1EA
		02	2EA
		03	3EA
		-	-
		52	52EA

Individual product data sheets available from www.oscgglands.com.au

Stopping Plug Exd IIC/Exe II/ExtD A21

OSSP-R & OSSP-H Type

FLAMEPROOF & INCREASED SAFETY

APPLICATION:

To close unused cable gland entries and maintain the flameproof and increased safety integrity of the equipment

PROTECTION:

Exd IIC/Exe II/ExtD A21, IP66/67

Suitable for use in Zone1, 2, 21 and 22.

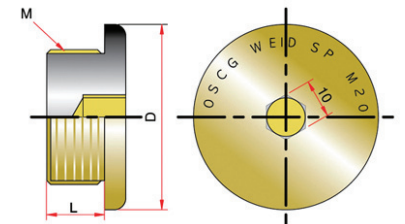
CERTIFICATION:

IECEx, Atex Nemko, GOST R

MATERIAL:

Brass with Nickle Plated

For Stainless Steel add /SS to part number



Stopping Plug Metric Part Number	Thread Size	Thread Length	Diameter
OSSP-R101/M16	M16	15	26
OSSP-R102/M20	M20	15	29
OSSP-R103/M25	M25	15	33
OSSP-R104/M32	M32	15	41
OSSP-R105/M40	M40	15	49
OSSP-R106/M50	M50	15	60
OSSP-R107/M63	M63	15	76
OSSP-R108/M75	M75	15	88
OSSP-R109/M90	M90	20	105
OSSP-R110/M100	M100	20	116

Stopping Plug PG Part Number	Thread Size	Thread Length	Diameter
OSSP-R101/PG7	PG7	6	18
OSSP-R101/PG9	PG9	7	22
OSSP-R101/PG11	PG11	7	27
OSSP-R102/PG13.5	PG13.5	7	28
OSSP-R103/PG16	PG16	7	30
OSSP-R104/PG21	PG21	8	35
OSSP-R105/PG29	PG29	8	46
OSSP-R106/PG36	PG36	9	58
OSSP-R107/PG42	PG42	10	65
OSSP-R108/PG48	PG48	10	71

Stopping Plug NPT Part Number	Thread Size	Thread Length	Diameter
OSSP-R102/NPT1/2	1/2"NPT	15	29
OSSP-R103/NPT3/4	3/4"NPT	16	33
OSSP-R104/NPT1	1"NPT	18	41
OSSP-R105/NPT1 1/4	1 1/4"NPT	19	49
OSSP-R106/NPT1 1/2	1 1/2"NPT	21	60
OSSP-R107/NPT2	2"NPT	24	76
OSSP-R108/NPT2 1/2	2 1/2"NPT	27	88
OSSP-R109/NPT3	3"NPT	30	105
OSSP-R109/NPT3 1/2	3 1/2"NPT	32	116

Hexagonal Head replace R with H to part number

Reducer Exd IIC/Exe II/ExtD A21

OSRA Type

FLAMEPROOF & INCREASED SAFETY

APPLICATION:

Provides a means of connection between cable entry devices and equipment having dissimilar threads.

PROTECTION:

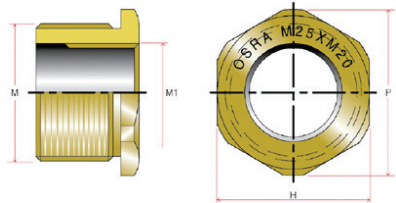
Exd IIC/Exe II/ExtD A21, IP66/67
Suitable for use in Zone1, 2, 21 and 22

CERTIFICATION:

IECEX, Atex Nemko, GOST R

MATERIAL:

Brass with Nickle Plated
For Stainless Steel add /SS to part number



Reducer Part Number	Entry Thread Size		Dimensions
	Male	Female	
OSRA-101/M1	M20	M16	H25 X 27
OSRA-102/M1	M25	M16	H30 X 33
OSRA-102/M2	M25	M20	H30 X 33
OSRA-103/M1	M32	M16	H38 X 41
OSRA-103/M2	M32	M20	H38 X 41
OSRA-103/M3	M32	M25	H38 X 41
OSRA-104/M1	M40	M20	H45 X 48
OSRA-104/M2	M40	M25	H45 X 48
OSRA-104/M3	M40	M32	H45 X 48
OSRA-105/M1	M50	M25	H55 X 59
OSRA-105/M2	M50	M32	H55 X 59
OSRA-105/M3	M50	M40	H55 X 59
OSRA-106/M1	M63	M32	H68 X 72
OSRA-106/M2	M63	M40	H68 X 72
OSRA-106/M3	M63	M50	H68 X 72
OSRA-107/M1	M75	M40	H82 X 88
OSRA-107/M2	M75	M50	H82 X 88
OSRA-107/M3	M75	M63	H82 X 88
OSRA-101/PM21	PG11	M16	H21 X 23
OSRA-101/PM11	PG13.5	M20	H25 X 27
OSRA-102/PM1	PG16	M16	H25 X 29
OSRA-102/PM2	PG16	M20	H25 X 29
OSRA-103/PM1	PG21	M20	H34 X 37
OSRA-103/PM2	PG21	M25	H34 X 37
OSRA-104/PM1	PG29	M20	H43 X 46
OSRA-104/PM2	PG29	M25	H43 X 46
OSRA-104/PM3	PG29	M32	H43 X 46

Other sizes available upon request

Reducer Part Number	Entry Thread Size		Dimensions
	Male	Female	
OSRA-102/NM0	1/2"NPT	M16	H30 X 33
OSRA-103/NM1	3/4"NPT	M20	H38 X 41
OSRA-104/NM1	1"NPT	M20	H45 X 48
OSRA-104/NM2	1"NPT	M25	H45 X 48
OSRA-105/NM1	1 1/4"NPT	M20	H55 X 59
OSRA-105/NM2	1 1/4"NPT	M25	H55 X 59
OSRA-105/NM3	1 1/4"NPT	M32	H55 X 59
OSRA-106/NM1	1 1/2"NPT	M20	H68 X 72
OSRA-106/NM2	1 1/2"NPT	M25	H68 X 72
OSRA-106/NM3	1 1/2"NPT	M32	H68 X 72
OSRA-106/NM4	1 1/2"NPT	M40	H68 X 72
OSRA-107/NM2	2"NPT	M25	H82 X 88
OSRA-107/NM3	2"NPT	M32	H82 X 88
OSRA-107/NM4	2"NPT	M40	H82 X 88
OSRA-107/NM5	2"NPT	M50	H82 X 88
OSRA-103/N1	3/4"NPT	1/2"NPT	H38 X 41
OSRA-104/N1	1"NPT	1/2"NPT	H45 X 48
OSRA-104/N2	1"NPT	3/4"NPT	H45 X 48
OSRA-105/N1	1 1/4"NPT	1/2"NPT	H55 X 59
OSRA-105/N2	1 1/4"NPT	3/4"NPT	H55 X 59
OSRA-105/N3	1 1/4"NPT	1"NPT	H55 X 59
OSRA-106/N1	1 1/2"NPT	3/4"NPT	H68 X 72
OSRA-106/N2	1 1/2"NPT	1"NPT	H68 X 72
OSRA-106/N3	1 1/2"NPT	1 1/4"NPT	H68 X 72
OSRA-107/N1	2"NPT	1"NPT	H82 X 88
OSRA-107/N2	2"NPT	1 1/4"NPT	H82 X 88
OSRA-107/N3	2"NPT	1 1/2"NPT	H82 X 88



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