

MEDC Product Overview

World class manufacturers of alarm, signalling and notification products for use in hazardous and industrial areas





In today's intensely competitive marketplace, proven reliability and expertise combine with functionality to drive the ultimate purchasing decision. When you are working on a multi-million dollar construction project, you need a partner that can support you with tried-and-tested products as well as a full service and support package from initial system definition through to design and service. Cooper MEDC is dedicated to maximising both personnel and equipment safety by offering a comprehensive range of innovative notification solutions designed for potentially explosive atmospheres and harsh industrial and marine environments.

Proven solutions for harsh and hazardous environments

Designers and manufacturers of alarm, signal, control and communications equipment since 1975, Cooper MEDC has developed a range of products specifically designed for harsh environmental conditions and where there is a risk of explosion due to the presence of flammable atmospheres both offshore and onshore. The extensive range of manual, visual, audible alarms and loudspeakers has been developed in close collaboration with customers to deliver the best combination of performance and safety. Through its vast global presence, technical sales force and engineering experts, Cooper MEDC meets the demanding standards of a multitude of industries including: oil, gas, petrochemical, marine and mining.

Technical solutions and superior performance

Cooper MEDC has pioneered the use of glass reinforced polyester (GRP) in explosion-proof products to deliver solutions with reduced maintenance, extended lifetime and lower cost of ownership. Since 1975, the oil and gas industry has counted on Cooper MEDC for the most reliable and highly respected alarms and loudspeakers in the industry. Extensive quality certifications include ATEX, CQST, UL, ULC, CSA, GOST R, GOST K, IECEx and Inmetro and demonstrate our commitment to maintaining our leadership position in the market.

Thousands of Products, Hundreds of Solutions, **One Cooper**

Within Cooper Industries' Safety division, Cooper MEDC's notification equipment is part of a comprehensive portfolio of solutions which also includes emergency lighting, security and fire detection as well as lighting fixtures and electrical installation materials.

Cooper Safety specialises in products designed to save lives and protect property in the most demanding industrial, residential and commercial environments worldwide. The company's high-quality brands have earned leadership positions in the markets we serve and that leadership is sustained through unparalleled sales support, market expertise and local availability. Cooper Safety is a division of Cooper Industries with manufacturing facilities in 23 countries and more than 25,000 people throughout the world.





How to use this Overview

This overview contains concise information on **Cooper MEDC** products for use in potentially explosive atmospheres, harsh industrial and marine environments.

To use this guide, refer to the product group of interest, read through the brief information and select the specific product for your application.

For more detailed information visit our website www.medc.com where a detailed datasheet can be downloaded. Or alternatively contact our sales offices in the UK and the USA for a full catalogue.



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Hazardous Area Guide

This information is intended as a guide only and further expert guidance should be sought before placing into service, maintaining or repairing any item of equipment in a Potentially Explosive Atmosphere.

Definition | Potentially Explosive Atmospheres exist where there is a risk of explosion due to mixtures of gas/air, vapour/air, dust/air or other flammable combinations. Where electrical equipment has to be used in these areas, it must be so designed and constructed such that it does not create sources of ignition capable of igniting these mixtures.

Area Classification | Process plants are divided into Zones (European and IEC method) or Divisions (North American method) according to the likelihood of a Potentially Explosive Atmosphere being present. Note: North American legislation now allows Zones to be used to classify areas, where this practice is used it follows the IEC Zone method.

European & IEC Classification	Definition of zone or division	North American Classification
Zone 0 (gases) Zone 20 (dusts)	An area in which an explosive mixture is continuously present or present for long periods	Class I Division 1 (gases) Class II Division 1 (dusts)
Zone 1 (gases) Zone 21 (dusts)	An area in which an explosive mixture is likely to occur in normal operation	Class I Division 1 (gases) Class II Division 1 (dusts)
Zone 2 (gases) Zone 22 (dusts)	An area in which an explosive mixture is not likely to occur in normal operation and if it occurs it will exist only for a short time	Class I Division 2 (gases) Class II Division 2 (dusts) Class III Division 1 (fibres) Class III Division 2 (fibres)

Gas Groups, Dusts and Fibres

There are two main gas groups, Group I – Mining only and Group II – Surface Industries.

These categories are used in European and I.E.C. groupings.

Group I is concerned only with underground mining where methane and coal dust are present.

Group II gases occurring in surface industries, are subgrouped according to their volatility. This enables electrical equipment to be designed to less onerous tolerances if it is to be used with the least volatile gases.

Typical gas/ material	•	Corth American Gas Group
Methane	1	-
Acetylene	IIC	Α
Hydrogen	IIC	В
Ethylene	IIB	С
Propane	IIA	D
Metal dust	-	E
Coal dust	-	F
Grain dust	-	G

ATEX

After 1st July 2003, the ATEX directive came into force and is a mandatory requirement for all equipment intended for use in Potentially Explosive Atmospheres within the E.U. All relevant MEDC equipment is covered by the date it comes into force and many are already certified. It should be noted also that MECHANICAL equipment is covered by the ATEX directive so for the first time items such as gearboxes will have to carry ATEX certification.

Temperature

To guard against hot surfaces igniting gases, all electrical equipment intended for use in Potentially Explosive Atmospheres is classified according to the maximum surface temperature it will reach in service (normally based on a surrounding ambient temperature of 40°C (102°F).

Temperature	Maximum Surface	
European/I.E.C.	North American	Temperature
T1	T1	450° C
T2	T2	300° C
	T2A	280° C
	T2B	260° C
	T2C	230° C
	T2D	215° C
T3	T3	200° C
	T3A	180° C
	T3B	165° C
	T3C	160° C
T4	T4	135° C
	T4A	120° C
T5	T5	100° C
Т6	T6	85° C

The equipment coding will be as the current practice plus an additional code as follows:

ExII2GD i.e.

Ex - Explosionproof in accordance with ATEX.

II - Group II surface industries

2 – Category 2 equipment (suitable for use in Zone 1) note: Category 1 is suitable for Zone 0.

Category 3 is suitable for Zone 2.

G – suitable for atmospheres containing gas

D - suitable for atmospheres containing dust

Equipment will be CE marked when certified to ATEX.

For more information about hazardous areas, download guide from www.medc.com.



Types of Electrical Equipment Suitable for use in Potentially Explosive Atmospheres Different techniques are used to prevent electrical equipment from igniting explosive atmospheres. There are restrictions on where these different types of equipment can be used as follows:	European	IEC	USA
	Area of use	Area of use	Area of use
	Designation	Designation	Designation
	Standard	Standard	Standard
Flameproof Enclosure – An enclosure used to house electrical equipment, which when subjected to an internal explosion will not ignite a surrounding explosive atmosphere.	Zones 1 & 2 EExd EN60079-1	Zones 1 & 2 Exd IEC60079-1	Class I Divisions 1 & 2 - UL1203
Intrinsic Safety – A technique whereby electrical energy is limited such that any sparks or heat generated by electrical equipment is sufficiently low as to not ignite an explosive atmosphere.	Zones 0, 1 & 2 EExi EN60079-11	Zones 1 & 2 Exi IEC60079-11	Class I Divisions 1 & 2 - UL913
Increased Safety – This equipment is so designed as to eliminate sparks and hot surfaces capable of igniting an explosive atmosphere.	Zones 1 & 2	Zones 1 & 2	-
	EExe	Exi	-
	EN60079-7	IEC60079-7	-
Purged and Pressurised – Electrical equipment is housed in an enclosure which is initially purged to remove any explosive mixture, then pressurised to prevent ingress of the surrounding atmosphere prior to energisation.	Zones 1 & 2 EExp EN60079-2	Zones 1 & 2 Exp IEC60079-2	Class I Divisions 1 & 2 - NFPA496
Encapsulation – A method of exclusion of the explosive atmosphere by fully encapsulating the electrical components in an approved material.	Zones 1 & 2	Zone 1 & 2	-
	EExm	Exm	-
	EN60079-18	IEC60079-18	-
Oil Immersion – The electrical components are immersed in oil, thus excluding the explosive atmosphere from any sparks or hot surfaces.	Zone 1 & 2 EExo EN50015	Zones 1 & 2 Exo IEC60079-6	Class I Division 2 - UL698
Powder Filling – Equipment is surrounded with a fine powder, such as quartz, which does not allow the surrounding atmosphere to come into contact with any sparks or hot surfaces.	Zones 1 & 2	Zones 1 & 2	-
	EExq	Exq	-
	EN50017	IEC60079-5	-
Non-sparking – Sparking contacts are sealed against ingress of the surrounding atmosphere, hot surfaces are eliminated.	Zone 2	Zone 2	-
	EExn	Exn	-
	EN60079-15	IEC60079-15	-

Selection, Installation and Maintenance of Electrical Equipment Intended for use in Potentially Explosive Atmospheres International and national standards are published giving details of requirements for the safe use of Electrical Equipment in Potentially Explosive Atmospheres as follows:

	International	Europe	U.S.A.
General Recommendations	IEC60079-14	EN60079-14	N.E.C. Chapter 5
Classification of Hazardous Areas	IEC60079-10	EN60079-10	N.E.C. Chapter 5
Inspection and Maintenance of Electrical Equipment	IEC60079-17	EN60079-17	-
Requirements for Flameproof Enclosures	IEC60079-14	EN60079-14	N.E.C. Chapter 5
Requirements for Intrinsically Safe Equipment	IEC60079-14	EN60079-14	N.E.C. Chapter 5
Requirements for Increased Safety Equipment	IEC60079-14	EN60079-14	N.E.C. Chapter 5
Requirements for Purged and Pressurised Equipment	IEC60079-14	EN60079-14	N.E.C. Chapter 5
Requirements for Non-Sparking Equipment	IEC60079-14	EN60079-14	_

Cooper MEDC advise that all Explosion-proof electrical equipment is maintained, by suitably trained personnel, in accordance with the Manufacturers' recommendations.

Any spare parts used should be purch ased from the original Manufacturer and repairs should be carried out by the Manufacturer or under his supervision, in order that the item remains in conformance with the certification documents.





Manual Alarm Call Points

Cooper MEDC offer a range of manual alarm call points, in various materials covering push button and break glass versions.

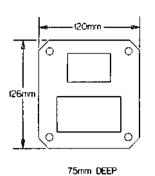
Manual alarm call points are designed for the purpose of raising an alarm manually once verification of a fire or emergency condition exists, by operating the push button or break glass the alarm signal can be raised.

There are options for the inclusion of LED status indicators and addressable boards to give the unit an individually recognised location (or address) within the system. These manual call points are designed to meet European or North American industrial and fire application standards.





Explosionproof & Weatherproof - Break Glass Call Point | BG



Standard models. Available ex-stock.



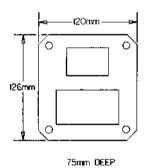
Certification ATEX Ex II 1GD ATEX Ex II 2GD

Туре Intrinsically Safe Increased Safety **Ordering Code** PX800002 PX800003

Standard Product Configuration

Standard models have 2 x 20mm bottom entries, red painted GRP, single switch glass label 'Break Glass Press Here'.

Explosionproof & Weatherproof - Break Glass Call Point | BG2



Standard models.

Available ex-stock.

Certification	$\langle \xi_{\rm X} \rangle$ ATEX
Intrinsically Safe	ATEX Ex II 1GD, EExia IIC T4
Increased Safety	ATEX Ex II 2GD, EExed(m) IICT4 (T6)
Area Classification	Model dependant - refer to datasheet
Certified Ambient Temperature	-40°C to +50°C (EExia) -20°C to +50°C (EExed)
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	2 x 20mm
Weight	1.2kg
Options	Lift flap, series & EOL resistors

Certification ATEX Ex II 1GD

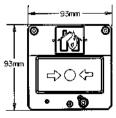
ATEX Ex II 2GD

Type Intrinsically Safe Increased Safety **Ordering Code** PX800005 PX800004

Standard Product Configuration

Standard models have 2 x 20mm bottom entries, painted red GRP, single switch glass label 'Break Glass Press Here'.

Explosionproof & Weatherproof – Break Glass Call Point | BG3



62mm DEEP (SURFACE MOUNT)

Standard models. Available ex-stock.



Certification ATEX Ex II 1G

Type Intrinsically Safe Weatherproof

Ordering Code PX800007 PX800006

Standard Product Configuration

Standard models are surface mount version, have 2 x 20mm bottom entries, painted red GRP, single switch glass label 'Break Glass Press Here' duty label 'Burning House

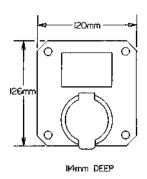


Manual Alarm Call Points

PB | Push Button Call Point - Explosionproof & Weatherproof



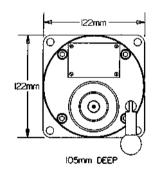
(£x) ATEX, UL, CSA, GOST 'R' & 'K', CQST, Inmetro, IECEX
ATEX Ex II 1GD, EExia IIC T4
ATEX Ex II 2GD, EExed(m) IIC T4 (T6)
Model dependant - refer to datasheet
-40°C to +70°C (EExia) -20°C to +50°C (EExed)
IP66 & 67
Corrosion-free GRP
Up to 4 x 20mm or 16mm (NPT for UL)
1.2kg
Body colour, LED, series & EOL resistors, diode, earth continuity (Not UL), turn & push, self reset, tag & duty labels.



SM87 BG | Break Glass Call Point – Explosionproof & Weatherproof



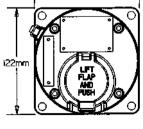
Certification	ξχ ATEX, CSA, GOST 'R' & 'K', CQST, Inmetro
Intrinsically Safe	ATEX Ex II 1G, EExia IIC T4
Flameproof	ATEX Ex II 2G, EExd IIC T6
Area Classification	Zone 0, Zone 1 and Zone 2 use*
On the of Ameliant Tanana and the	-55°C to +70°C
Certified Ambient Temperature	-20°C to +55°C (LED)
Ingress Protection	IP66 & 67
Material	Stainless Steel or Alloy
Entries	Up to 4 x 20mm or 25mm
Weight	3.8kg (Steel) 2.5kg (Alloy)
Options	Body colour, lift flap, LED, resistor, diode, 3 & 4 pole changeover switch, certification, tag & duty labels.



SM87 PB | Push Button Call Point - Explosionproof & Weatherproof



(tx) ATEX, UL, CSA, GOST 'R' & 'K', CQST, Inmetro ATEX Ex II 1G, EExia IIC T4 ATEX Ex II 2G,EExd IIC T6
•
ATEX Ex II 2G FEVA IIC T6
ATEX EX II Zu, EEXU IIO TO
Zone 0, Zone 1 and Zone 2 use*
-55°C to +70°C
-20°C to +55°C (LED)
IP66 & 67
Stainless Steel or Alloy
Up to 4 x 20mm or 25mm (NPT for UL)
3.8kg (Steel) 2.5kg (Alloy)
Body colour, LED, resistor, diode,
3 & 4 pole changeover switch, certification, tag &
duty labels.



II8mm DEEP

^{*}Depending on version.

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Status Lights

Cooper MEDC offer a range of Status Lights designed for potentially explosive atmospheres and harsh environmental conditions.

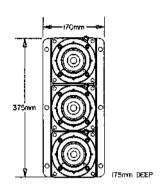
Status lights are commonly found in oil, gas, petrochemical and other hazardous areas where multicoloured lamp combinations are used to identify the safety status of specific zones.



SM87 SL | Xenon, Filament, Fluorescent & LED Status Lamps - Explosionproof & Weatherproof



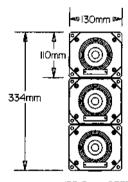
Certification	Σχ ATEX, GOST 'R' & 'K', CQST, Inmetro, CSA
Flameproof	ATEX Ex II 2G,EExd IIC T4 (LED/Fil) ATEX Ex II 2G,EExd IIC T6 (Xe/Fi)
Area Classification	Zone 1 and Zone 2 use.
Certified Ambient Temperature	-20°C to +55°C (LED/FI) -55°C to +70°C* (Xe/FiI)
Ingress Protection	IP66 & 67
Material	Stainless Steel or Alloy
Entries	Up to 3 x 20mm or 25mm
No. of Ways	Up to 4
Options	Body & lens colour, certification, tag & duty labels. *Model dependant, refer to data sheet.



SL5 | Xenon, Filament & LED Status Lights - Explosionproof & Weatherproof



Certification	$\langle E_{\rm X} \rangle$ ATEX, CQST
Increased Safety	ATEX Ex II 2G,EExe(m) II T3/T4
Area Classification	Zone 1 and Zone 2 use.
Certified Ambient Temperature	-40°C to +55°C (Xe/Fil) -40°C to +45°C (LED)
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	Up to 2 x 16mm or 20mm or 1 x 25mm or 32mm
No. of Ways	Up to 5
Options	Body & lens colour, certification, tag & duty labels.

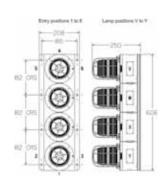


138.5mm DEEP

SL15 Range | Status Lights - Explosionproof & Weatherproof



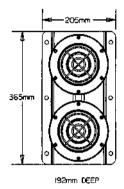
⟨₹x⟩ ATEX, and IEC Ex Approved, UL Certification Area Classification Model dependant - refer to datasheet Certified Ambient Temperature -55°C to +70°C IP66 & 67 Ingress Protection Material Corrosion-free GRP Entries Up to 2 x $\frac{1}{2}$ " or 2 x $\frac{3}{4}$ " entries. ATEX has M20 or M25. No. of Ways Up to 4 Various flash rates available for xenon units. Various Options lens colours. Optional cast or wire lens guard.



UL Version



Explosionproof & Weatherproof- Xenon, Filament & Flourescent Status Lamps | XB11SL

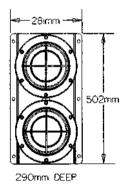


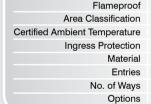




Status Lamps can also be configured using the high intensity XB4 range.

Explosionproof & Weatherproof - Xenon, Filament & Flourescent Status Lamp | XB12SL





Certification

ATEX, UL, Inmetro, GOST, CQST

ATEX Ex II 2G, EExd IIB T4/T5

Model dependant - refer to datasheet
-55°C to +70°C

IP66 & 67

Corrosion-free GRP
1 x 20mm (NPT forUL)

Up to 5

Body & lens colour, tag & duty labels.





Beacons / Strobes

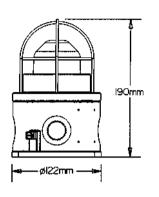
Cooper MEDC offer a range of beacons including flashing, steady-state indicators and rotating units. These may be used to warn of potential hazards or indicate the status of plant items, gas and oil leaks, evacuation alerts and many more.

The signals may operate as stand-alone units or be incorporated into a wider system, such as a fire panel. Within this section there is a wide variety of output values and lens colours.





Explosionproof & Weatherproof – 5 Joule Flashing Xenon | SM87 HXB



Certification	(Ex)ATEX, UL, CSA, GOST 'R' & 'K', CQST, Inmetro
Flameproof	ATEX Ex II 2GD, EExd(e) IIC T4 &T6
Area Classification	Model dependant - refer to datasheet
Certified Ambient Temperature	-55°C to +70°C (EExd)
Ingress Protection	IP66 & 67
Material	Stainless Steel or Alloy
Entries	Up to 4 x 20mm or 25mm (NPT for UL)
Weight	3.8kg (Steel) or 2kg (Alloy)
Options	Body & lens colour, EOL resistor, tel. & relay initiate, lens guard, tag or duty labels, flash rate, high temp. version (-40°C to +85°C) available, voltages 24-48V d.c., 110-254V a.c.



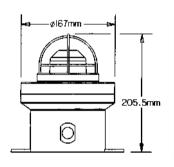
Standard	models.
Available	ex-stock.

Certification	Voltage	Lens Colour	Ordering Code
ATEX Ex II 2G	24V d.c.	Red	PX813005
ATEX Ex II 2G	24V d.c.	Amber	PX813006
ATEX Ex II 2G	240V a.c.	Red	PX813007
ATEX Ex II 2G	240V a.c.	Amber	PX813008

Standard Product Configuration

Standard models are in alloy, red body, no tag or duty labels, 2 x M20 entries, 60 flashes per minute.

Explosionproof & Weatherproof – 5 Joule Flashing Xenon | XB11



Certification	Ex ATEX, UL, CQST, SAA, Inmetro, GOST 'R' & 'K', IECE
Flameproof	ATEX Ex II 2GD, EExd IIB T4, T5 & T6
Area Classification	Zone 1 and Zone 2 use.
Certified Ambient Temperature	-55°C to +70°C
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	2 x 20mm (NPT for UL)
Weight	2.5kg
Options	Body & lens colour, mounting, tel. initiate, lens guard, flash rate, earth continuity, voltages 24V d.c., 110V a.c., 240 V a.c.



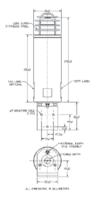
Standard models.
Available ex-stock

Certification	Voltage	Lens Colour	Ordering Code
ATEX Ex II 2GD	24V d.c.	Red	PX811101
ATEX Ex II 2GD	24V d.c.	Amber	PX811102
ATEX Ex II 2GD	240V a.c.	Red	PX811103
ATEX Ex II 2GD	240V a.c.	Amber	PX811104

Standard Product Configuration

Standard models are in GRP, natural black body, no tag or duty labels, 2 x M20 entries, 60 flashes per minute.

Explosionproof & Weatherproof – 5 Joule Flashing Xenon | XB9



Standard	models.
Available	ex-stock.

Certification	₹x ATEX, Inmetro, IECEx
Flameproof	ATEX Ex II 2G, EExd IIC T5/T6
Area Classification	Zone 1 and Zone 2 use.
Certified Ambient Temperature	-55°C to +55°C
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	1 x 20mm or PG13.5
Weight	1.6kg
Options	Body & lens colour, tag or duty labels, voltages, flash rate, 24-48V d.c., 110-254V a.c.

Certification	Voltage	Lens Colour	Ordering Code
ATEX Ex II 2G	24V d.c.	Red	PX819105
ATEX Ex II 2G	24V d.c.	Amber	PX819106
ATEX Ex II 2G	240V a.c.	Red	PX819107
ATEX Ex II 2G	240V a.c.	Amber	PX819108



Standard Product Configuration

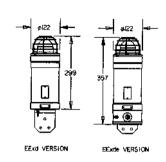
Standard model has natural black body, no tag or duty labels, 60 flashes per minute, lens guard, 3m cable & tail.



XB10 | 10 & 15 Joule Flashing Xenon – Explosionproof & Weatherproof



Certification	⟨₹x⟩ATEX, GOST 'R', Inmetro, IECEx
Flameproof	ATEX Ex II 2G, EExd(e) IIB T4
Area Classification	Zone 1 and Zone 2 use.
Certified Ambient Temperature	*-55°C to +55°C 10 Joule *-55°C to +40°C 15 Joule
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	Up to 3 x 20mm or 2 x PG13.5
Weight	EExd 2.8kg EExde 3.6kg
Options	Body & lens colour, tel. initiate, earth continuity, flash rate, terminal chamber, voltages 24-48V d.c., 110-254V a.c.



*EExd version only, see data sheet for more information.

Standard models. Available ex-stock.

Certification	Voltage	Lens Colour	Ordering Code
ATEX Ex II 2G	24V d.c.	Red	PX811050
ATEX Ex II 2G	24V d.c.	Amber	PX811051
ATEX Ex II 2G	240V a.c.	Red	PX811052
ATEX Ex II 2G	240V a.c.	Amber	PX811053

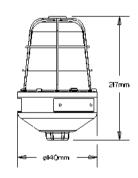
Standard Product Configuration

Standard models are in natural black, 15 Joules, lens guard, no tag or duty labels, 2 x M20 entries, 60 flashes per minute.

XB16 | 10 Joule Flashing Xenon – UL Hazardous & Ordinary Locations



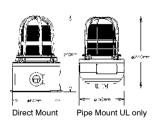
Certification	UL (1971 compliant)
Hazardous Locations	Class I, Div 2, Groups A-D Class II, Div 2, Groups F & G
Area Classification	Model dependant - refer to datasheet
Certified Ambient Temperature	Certified Ambient Temperature -55°C to +70°C
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	1 x ¾" NPT
Weight	1kg
Options	Body & lens colour, lens guard, tag & duty labels, relay initiate, flash rate, voltages 12-48V d.c., 110-254V a.c.



XB15 | 15 Joule Flashing Xenon – Explosionproof & Weatherproof

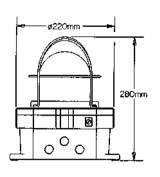


Certification	ξχ ATEX, UL, Inmetro, ULC, IECEx
Flameproof	ATEX Ex II 2GD, EExd IIC T4, T5 & T6
Area Classification	Zone 1 and Zone 2 use.
Certified Ambient Temperature	-55°C to +70°C
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	Up to 3 x 20mm or 3 x 25mm (NPT for UL)
Weight	2.6-3kg
Options	Body & lens colour, relay & telephone initiate, flash rate, voltages 12-48V d.c., 110-254V a.c.





Explosionproof & Weatherproof - 21 Joule Flashing Xenon | XB4



Certification (ξχ) ATEX, UL, GOST 'R', SAA, Inmetro Flameproof ATEX Ex II 2G, EExd(e) IIC T5 Area Classification Zone 1 and Zone 2 use. Certified Ambient Temperature -55°C to +70°C Ingress Protection IP66 & 67 Material Stainless Steel or Alloy Entries Up to 4 x 20mm or 25mm Weight 15-16kg (Steel), 6.6-7.6kg (Alloy) Body & lens colour, lens guard, tag & duty labels, Options terminal chamber, initiation options, flash rate, voltages 24-48V d.c., 110-254V a.c.



Standard models. Available ex-stock. Certification Voltage
ATEX Ex II 2G 24V d.c.
ATEX Ex II 2G 240V a.c.

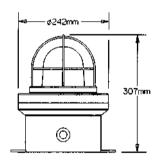
 Lens Colour
 Ordering Code

 Red
 PX814001

 Red
 PX814002

Standard Product Configuration Standard model are red painted, alloy, no lens guard, 2 x M20 entries.

Explosionproof & Weatherproof - 21 Joule Flashing Xenon | XB12



Certification ⟨ξχ⟩ ATEX, UL, GOST 'R' & 'K', CQST, Inmetro, IECEx Flameproof ATEX Ex II 2G, EExd IIB T4/T5 Area Classification Zone 1 and Zone 2 use. **Certified Ambient Temperature** -55°C to +70°C Ingress Protection IP66 & 67 Corrosion-free GRP Entries 2 x 20mm (NPT for UL) Weight Body & lens colour, lens guard, tag & duty labels, Options telephone initiation, flash rate, mounting method, earth continuity, voltages 24V d.c., 110-240V a.c.

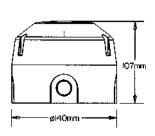


Standard models. Available ex-stock.

Certification	Voltage	Lens Colour	Ordering Code
ATEX EX II 2GD	24V d.c.	Red	PX812101
ATEX EX II 2GD	24V d.c.	Amber	PX812102
ATEX EX II 2GD	240V a.c.	Red	PX812103
ATEX EX II 2GD	240V a.c.	Amber	PX812104

Standard Product Configuration
Standard models are in natural black
GRP, no lens guard, 2 x 20mm entries,
60 flashes per minute.

Explosionproof & Weatherproof - 0.5 Joule Flashing Xenon | XB8



Certification	⟨£x⟩ ATEX GOST 'R'
Intrinsically Safe	ATEX Ex II 1G, EExia IIB/IIC T4
Area Classification	Zones 0, 1, 2 & safe area use.
Certified Ambient Temperature	-55°C to +60°C
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP body, Polycarbonate lens
Entries	Up to 3 x 20mm via knockouts
Weight	1.4kg
Options	Body & lens colour, certification, tag & duty labels, voltages 12-24V d.c.



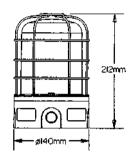
Standard models. Available ex-stock **Certification Voltage** ATEX Ex II 1G 24V d.c.

Lens Colour Clear Ordering Code PX818002 Standard Product Configuration
Standard models have painted red body colour, no tag or duty labels, 60 flashes per minute.

XB13 | 10 Joule Flashing Xenon – Weatherproof & Heavy Duty



Area Classification	Weatherproof.
Operating Temperature	-55°C to +70°C
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP body Polycarbonate lens
Entries	Up to 3 x 20mm via knockouts
Weight	1.1kg
Options	Body & Iens colour, tag & duty labels, Iens guard, telephone & relay initiate, single & dual flash mode, voltages 12 or 24V DC, 115 or 230V AC.



Standard models. Available ex-stock.

Voltage	Lens Colour	Ordering Code
24V d.c.	Red	PX813101
24V d.c.	Amber	PX813102
230V a.c.	Red	PX813103

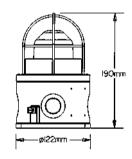
Standard Product Configuration

Standard models are in painted red body colour, no tag or duty labels, no lens guard, 3 x 20mm entries via knockouts, 60 flashes per minute (single flash mode), dual & single flash modes.

SM87 | LU1/LU3 10 Watt Steady Filament/Fluorescent – Explosionproof & Weatherproof



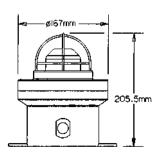
Certification	(Ex) ATEX, UL, CSA, CQST, Inmetro, GOST 'R' & 'K'
Flameproof	ATEX Ex II 2GD, EExd(e) IIC T4/T6
Area Classification	Zone 1 and Zone 2 use.
Certified Ambient Temperature	*-55°C to +55°C
Ingress Protection	IP66 & 67
Material	Stainless Steel or Alloy
Entries	Up to 3 x 20mm or 25mm (NPT for UL)
Weight	2.5 - 3.8kg
Options	Body & lens colour, lens guard, tag or duty labels, terminal chamber, voltages 24-48V d.c., 110-254V a.c.



FB11 & FL11 | 10 Watt Steady Filament & Fluorescent – Explosionproof & Weatherproof



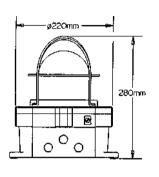
Certification	ATEX, UL, Inmetro, GOST 'R'
Flameproof	ATEX Ex II 2GD, EExd IIB T4/T5
Area Classification	Zone 1 and Zone 2 use.
Certified Ambient Temperature	-20°C to +55°C (FB11)
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	2 x 20mm (NPT for UL)
Weight	2.8kg
Options	Body & lens colour, lens guard, tag & duty labels, lamp wattage, unit fixing, earth continuity, mounting method, voltages 24-48V d.c., 110-254V a.c.



^{*} Model dependent



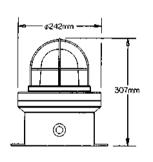
Explosionproof & Weatherproof - 100 Watt Steady Filament & 39 Watt Fluorescent | FB4 & FL4



Certification	ATEX, UL, GOST 'R', Inmetro
Area Classification	Zone 1 and Zone 2 use.
Flameproof	ATEX Ex II 2G, EExd(e) IIC T3/T6
	-55°C to +55°C (FB4 EExd)
Certified Ambient Temperature	-50°C to +55°C (FB4 EExde)
	-20°C to +55°C (FL4)
Ingress Protection	IP66 & 67
Material	Stainless Steel or Alloy
Entries	Up to 4 x 20mm or 25mm
Weight	14.9-17.3kg (Steel), 6.5 - 8.9kg (Alloy)
Options	Body & lens colour, lens guard, tag & duty labels, lamp wattage, relay initiate or terminal chamber, voltages 24-48V d.c., 110V d.c., 110-254V a.c.



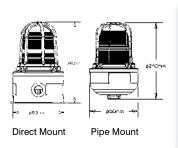
Explosionproof & Weatherproof – 100 Watt Steady Filament & 39 Watt Fluorescent | FB12 & FL12



Certification	⟨ξχ⟩ ATEX, UL, GOST 'R', Inmetro
Flameproof	ATEX Ex II 2G, EExd IIB T4/T5
Area Classification	Zone 1 and Zone 2 use.
Certified Ambient Temperature	-55°C to +55°C (FB12) -20°C to +55°C (FL12)
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	2 x 20mm (NPT for UL)
Weight	7.2 - 7.6kg
Options	Body & lens colour, lens guard, tag & duty labels, lamp wattage, unit fixing, earth continuity, mounting method, voltages 24-48V d.c., 110-254V a.c.



Explosionproof & Weatherproof – 60 Watt Steady Filament | FB15



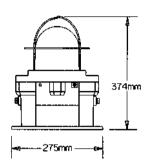
Certification	ξχ ATEX, UL, Inmetro, GOST 'R', IECEx
Flameproof	ATEX Ex II 2GD, AExd IIC T3/T4
Area Classification	Zone 1 and Zone 2 use.
Certified Ambient Temperature	-55°C to +70°C
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	2 x 20mm (NPT for UL)
Weight	2.6 Kg (Pipe Mount) 3.0 Kg (Direct Mount)
Options	Body & lens colour, lens guard, tag & duty labels, lamp wattage, unit fixing, mounting method, voltages 24-48V d.c., 110-254V a.c.



FB5 & FL5 | 200 Watt Steady Filament & 52 Watt Steady Fluorescent - Explosionproof & Weatherproof



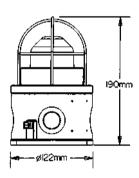
Certification	⟨£x⟩ ATEX
Flameproof	ATEX Ex II 2G, EExd(e) IIB T3/T4
Area Classification	Zone 1 and Zone 2 use.
Certified Ambient Temperature	-20°C to +30°C (FB5) -20°C to +50°C (FL5)
Ingress Protection	IP66, 67 & 68
Material	Stainless Steel or Alloy
Entries	Up to 4 x 20mm or 25mm
Weight	11.6 - 14.3kg
Options	Body colour, lens guard, mounting method,voltages 220-254V a.c.



SM87 LED | Up to 192 Cd Steady or Flashing LED (Selectable) – Explosionproof & Weatherproof





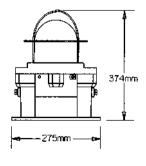




XB5 & TH5 | 5 Joule Sequenced & 70 Watt Rotating – Explosionproof & Weatherproof



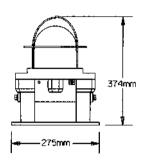
Certification	⟨£x⟩ ATEX
Flameproof	ATEX Ex II 2G, EExd(e) IIB T4/T6
Area Classification	Zone 1 use.
Certified Ambient Temperature	-20°C to +55°C (TH5) -20°C to +40°C (XB5)
Ingress Protection	IP66, 67 & 68
Material	Alloy
Entries	Up to 4 x 20mm or 25mm – Exe only
Weight	14.6 - 15.9kg
Options	Body & lens colour, lens guard, tag label, terminal chamber, rotational speed, voltages *12-48V d.c., 110-254V a.c.



^{*}See datasheet for voltage option for TH5.



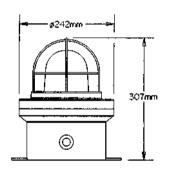
Explosionproof & Weatherproof – 70 Watt Sodium/80 Watt Mercury Fluorescent | HS5 & MF5



(XX) ATEX, CSA (HS5 only)
ATEX Ex II 2G, EExd(e) IIB T3/T4
Zone 1 and Zone 2 use.
-20°C to +40°C
IP66, 67 & 68
Stainless Steel or Alloy
Up to 4 x 20mm or 25mm
12.9 - 14.0kg
Body colour, lens guard, tag label, terminal chamber, mounting method, voltages 220-254V a.c.



Explosionproof & Weatherproof – 55 Watt/70 Watt Rotating Beacon | TH12



(Ex) ATEX, GOST 'R', Inmetro
ATEX Ex II 2G, EExd IIB T4/T5
Zone 1 and Zone 2 use.
-55°C to +70°C T4
IP66 & 67
Corrosion-free GRP
2 x 20mm
7.6kg
Body & lens colour, lens guard, tag & duty labels, flash rate, mounting method, earth continuity, volt- ages 24V d.c. 110-240V a.c.





Sounders / Horns

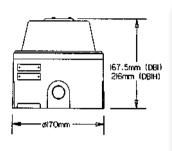
Cooper MEDC Sounders and Horns feature a variety of tone settings, voice messaging or traditional bells. Sounders and Horns are used to warn of potentially dangerous situations or to relay instructions.

In addition the alarms may operate as stand-alone units or be incorporated into a hazard warning system. A wide variety of sound output levels and other options are also available. The Sounders and Horns output in dB(A) is measured to European standards at 1 metre.





Explosionproof & Weatherproof – 113dB(A) Sounder | DB1



ξχ ATEX, UL, GOST 'R', SAA, Inmetro, IECEx
ATEX Ex II 2G, EExd IIB T3
Zone 1 and Zone 2 use.
-20°C to +70°C
IP66
Stainless steel or alloy
Up to 3 x 20mm or 25mm
*3.5-12.7kg
Body colour, tag & duty labels, two stage (DB1P) alarms, high output (DB1HP), tel, relay or remote initiate, EOL resistor, certification, voltages 12-48V d.c., 110V a.c., 240V a.c.

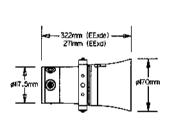


*Model dependent

Standard models. Available ex-stock. Certification ATEX Ex II 2G Ordering Code PX801001 **Standard Product Configuration**

Standard model is single stage alarm, red painted alloy, no tag or duty labels, 2 x M20 entries, 24V d.c., 6 tones, 103dBA output.

Explosionproof & Weatherproof –118dB(A) Sounder | DB3



Certification	Ex ATEX, UL, GOST 'R' & 'K', CQST, SAA, Inmetro
Flameproof	ATEX Ex II 2GD, EExd(e) IIC T5
Area Classification	Zone 1, Zone 2 and non-Ex use.
Certified Ambient Temperature	-20°C to +70°C (standard) -55°C to +55°C (low temp unit)
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	Up to 2 x 20mm
Weight	5.0kg
No. of Tones	27 user selectable tones and 5 optional programmable spaces.
Options	Body colour, tag & duty labels, two stage alarm (DB3P), low temperature version available, EOL resistor, certification, terminal chamber voltages 12-48V d.c., 110V-254V a.c.

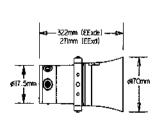


Standard models. Available ex-stock.

Certification Body Colo		Alarm Type	Voltage	Ordering Code
ATEX Ex II 2GD	Natural Black	Two Stage	12-48V d.c.	PX803121
ATEX Ex II 2GD	Red	Two Stage	12-48V d.c.	PX803123
ATEX Ex II 2GD	Red	Single Stage	12-48V d.c.	PX803125
ATEX Ex II 2GD	Natural Black	Single Stage	240V a.c.	PX803122
ATEX Ex II 2GD	Red	Single Stage	240V a.c.	PX803124

Standard Product Configuration Standard model has 27 tones, no tag or duty labels, 2 x 20mm entries with one certified plug fitted.

Explosionproof & Weatherproof – 110dB(A) Voice Sounder | DB3V



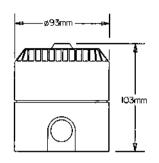
Certification	(Ex) ATEX, UL, GOST 'R' & 'K', CQST, SAA, Inmetro
Flameproof	ATEX Ex II 2GD, EExd(e) IIC T5
Area Classification	Zone 1, Zone 2 and non-Ex use.
Certified Ambient Temperature	-20°C to +55°C (standard) -55°C to +55°C (low temp unit)
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	Up to 2 x 20mm
Weight	5.0kg
Speech Duration	Up to 20 seconds repeatable
Options	Body colour, tag & duty labels, low temperature version available, EOL resistor, record feature, certification, terminal chamber, 'mechanical bell' sounc version, voltages 12-48V d.c.



DB5 | 103dB(A) Sounder - Explosionproof & Weatherproof



Certification	ATEX, CSA, FM Approved, Inmetro, IECEx
Intrinsically Safe	ATEX Ex II 1G & Ex1 M1, EExia IIC T4
Area Classification	Zone 0, Zone 1 and Zone 2 use.
Certified Ambient Temperature	-20°C to +55°C
Ingress Protection	IP65
Material	Corrosion-free ABS
Entries	Up to 2 x 20mm via knockouts
Weight	0.3kg
No. of Tones	26
Options	Body colour, tag labels, certification, voltages 12V- 24V d.c.



Standard models. Available ex-stock. Certification ATEX Ex II 1G ATEX Ex II 1G Voltage 12V d.c. 24V d.c. **Ordering Code** PX805001 PX805002

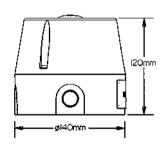
Standard Product Configuration

Standard model has 26 tones, natural red body colour, no tag or duty labels, 2 x 20mm entries via knockouts.

DB7 | 110dB(A) Sounder – Explosionproof & Weatherproof







Standard models Available ex-stock.

Certification ATEX Ex II 1G Voltage 24V d.c. **Ordering Code** PX807006

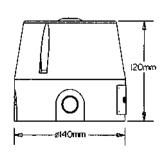
Standard Product Configuration

Standard model is a two stage alarm (DB7P), has 27 tones, painted red body, up to 3 x 20mm entries via knockouts.

DB12 | 110dB(A) Sounder – Weatherproof & Heavy Duty



Area Classification	Weatherproof.
Operating Temperature	-55°C to +70°C
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	Up to 3 x 20mm via knockouts
Weight	1kg
No. of Tones	27 + 5 programmable
Options	Body colour, tag & duty labels, voltages 12V & 24V d.c.



Standard models. Available ex-stock.

Voltage 24V d.c. 115/230V a.c.

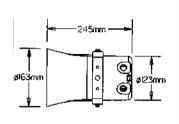
Alarm Type Two Stage Single Stage **Ordering Code** PX808001 PX808003

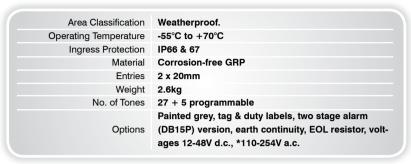
Standard Product Configuration

Standard model has 27 tones, painted red body colour, no tag or duty labels, 3 x 20mm entries via knockouts.



Weatherproof & Heavy Duty – 117dB(A) Sounder | DB15







*Not available in a.c. versions for DB15P.

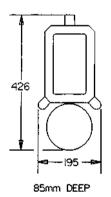
Standard models. Available ex-stock.

Voltage	Body Colour	Alarm Type	Ordering Code
24-48V d.c.	Grey	Two stage	PX808110
24-48V d.c.	Red	Two stage	PX808115
240V a.c.	Grey	Single stage	PX808120
240V a.c.	Red	Single stage	PX808125

Standard Product Configuration

Standard model has 27 tones, 2 x 20mm entries.

Explosionproof & Weatherproof – 109dB(A) Bell | DB6



Standard models. Available ex-stock.

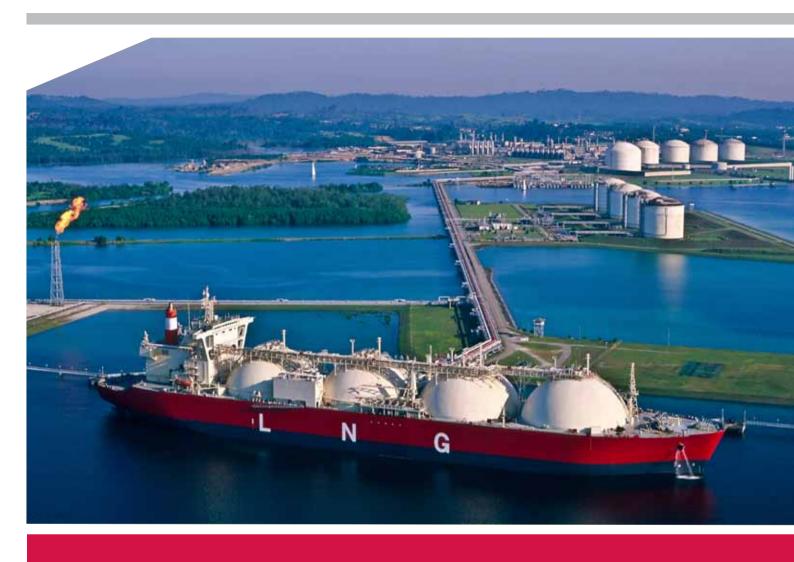
Certification	⟨ξχ⟩ ATEX, Inmetro, IECEx
Flameproof	ATEX Ex II 2G, EExd IIB T5
Area Classification	Zone 1 and Zone 2 use.
Certified Ambient Temperature	-20°C to +55°C
Ingress Protection	IP65
Material	Cast Iron
Entries	2 x 20mm
Weight	11kg
Options	Body colour, tag labels, voltages 24V d.c., 240V a.c.

 Certification
 Voltage
 Body Colour
 Ordering Code

 ATEX Ex II 2G
 24V d.c.
 Red
 PX806003



Standard Product ConfigurationStandard models are in cast iron, no tag or duty labels, 2 x M20 entries.



Combination Units

Cooper MEDC combination units are designed for the purpose of alerting audio and visual awareness to an emergency situation.

Our range of combination units are suitable for use in harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.





Combination Beacon / Sounder | CU 1



Certification
Flameproof
Area Classification
Certified Ambient Temperature
Ingress Protection
Material
Entries

tification

Meproof

IIB T3

Zone 1, Zone 2 & non-Ex use.

-50°C to +70°C*

IP66 & 67

Material

Entries

Weight

Options

Body & lens colour, tel. initiate, earth continuity, flash rate, voltages 24–48V d.c. 110–254V a.c.

*High Temperature Unit, See data sheet for other versions.



Standard models.

Available ex-stock.

Certification ATEX Ex 2GD ATEX Ex 2GD ATEX Ex 2GD Voltage Alarm Type 24V d.c. Single Stage 24V d.c. Two Stage 240V d.c. Single Stage
 Lens Colour
 Ordering Code

 Red
 803140

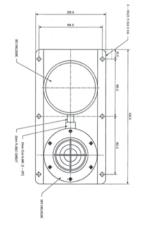
 Red
 803141

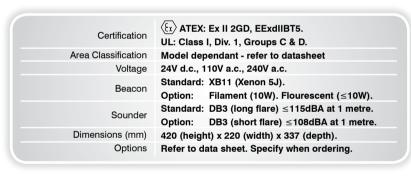
 Red
 803142

Standard Product Configuration

Standard models are in red finish, 10 Joules, lens guard, no tag or duty labels, 2 x M20 entries, one certified plug 60 flashes per minute.

Explosionproof — Xenon 5J; Sounder | DB3 / XB11





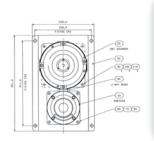


Ordering Information — Standard product Specify options 1 – 4

 Product
 1. Certification
 2. Voltage
 3. Lens colour
 4. Finish

 DB3 + XB11
 + ATEX UL + See above
 + Red Amber
 + Natural Black Red

$\textit{Explosionproof} - \textbf{Xenon 5J; Sounder} \ | \ \textbf{DB1 HP} \ / \ \textbf{SM87 HXB}$



Certification
Area Classification
Voltage
Beacon
Sounder

Dimensions (mm)

Options

(x) ATEX: Ex II 2G, EExdIIBT4(T3).

UL: Class I, Div. 1, Groups C & D.

Model dependant - refer to datasheet

24V d.c., 110V a.c., 240V a.c.

Standard: SM87 (Xenon 5J).

Option: Filament (10W). Flourescent (≤10W).

Standard: DB1 P ≤ 106dBA at 1 metre

Option: DB1 HP ≤ 110dBA at 1 metre

351 (height) x 228 (width) x 205 (depth).

Refer to data sheet. Specify when ordering.



Ordering Information — Standard product Specify options 1 – 5

Product 1. Body Material 2. Certification 3. Voltage 4. Lens colour 5. Finish

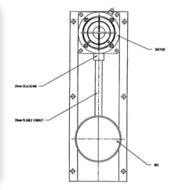
DB1 P + SM87HXB + LM25 stainless steel + ATEX UL + see above + Red Amber + specify



DB3 / SM87 HXB | Xenon 5J; Sounder — Explosionproof



Certification	(Ex) ATEX: Ex II 2G, EExdIICT5. UL: Class I, Div. 2, Groups C & D.
Area Classification	Model dependant - refer to datasheet
Voltage	24V d.c., 48V d.c., 240V a.c.
Beacon	LM25 or stainless steel.
Sounder	Corrosion-free GRP.
Beacon	Standard: SM87 (Xenon 5J). Option: Filament (10W). Flourescent (≤10W). LED (≤192cd)
Sounder	Standard: DB3 (long flare) ≤ 115dB(A) at 1 metre. Option: DB3 (short flare) ≤ 108dB(A) at 1 metre (Note: Close coupled unit only available ATEX certified).
Dimensions (mm)	420 (height) x 220 (width) x 337 (depth).
Options	Refer to data sheet. Specify when ordering.



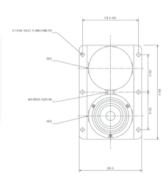
Ordering Information — Standard product Specify options 1 – 5

Product 1. Body Material 2. Certification 3. Voltage 4. Lens colour 5. Finish DB3 / SM87 HXB + LM25 stainless steel + ATEX UL + see above + Red Amber + specify

DB12 / XB13 | Heavy Duty Industrial Marine Xenon 10J



Applications	Harsh Industrial & Marine Environments.
Area Classification	Model dependant - refer to datasheet
Voltage	12V, 24V d.c., 110V, 240V a.c.
Beacon	Standard: XB13 (Xenon 10J).
Sounder	Standard: DB12 110dB(A) at 1 metre.
Sounder	Standard: DB15 115dB(A) at 1 metre.
Dimensions (mm)	300 (height) x 195 (width) x 220 (depth).
,	, , , , , , , , , , , , , , , , , , , ,



Ordering Information — Standard product Specify options 1 – 3

Product 1. Voltage 2. Lens colour 3. Finish DB12 / XB13 + see above + Red Amber + Natural Red





Speakers

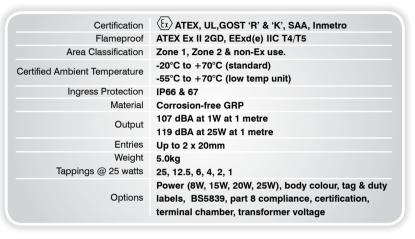
Cooper MEDC's range of hazardous, heavy duty, industrial and commercial speakers are designed to meet the requirements for public address, voice alarm (evacuation) and background music. The speakers can generally operate as stand-alone units, or as part of 100 or 70 volt line systems.

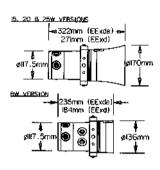
Additionally a wide range of sound output levels (dB / Watts) are available. The speakers sound output in dB(A) is measured to European standards at 1 watt / 1 metre.



DB4 | 8 - 25 Watt Speaker - Explosionproof & Weatherproof







Standard models. Available ex-stock.

Certification ATEX EX II 2GD ATEX EX II 2GD

Power 15 Watts 25 Watts **Ordering Code** PX804215 PX804225

Standard Product Configuration

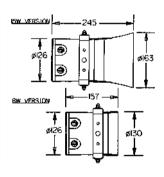
Standard model has natural black finish, no labels. 2 x 20mm entries, fitted with one certified plug & 100V line transformer.

DB10 | 8 & 15 Watt Speaker – Explosionproof & Weatherproof



*8 Watt version has short flare.

(£x) ATEX, GOST 'R' & 'K', CQST, Inmetro Certification Flameproof & Increased Safety ATEX Ex II 2G, EExde IIB & H2 T4, T5 & T6 Area Classification Zone 1, Zone 2 & non-Ex use. Certified Ambient Temperature -55°C to +70°C Ingress Protection IP66 & 67 Material Corrosion-free GRP 105 dBA at 1W 1 metre Output 115 dBA at 15W at 1 metre Entries Up to 2 x 20mm Weight 3.2kg (model dependent) Tappings @ 15 Watts 15, 7.5, 5, 4, 2, 0.8 Options Body colour, tag & duty labels, transformer voltage



Standard models. Available ex-stock.

Certification ATEX Ex II 2G ATEX Ex II 2G

Power 15 Watts 8 Watts

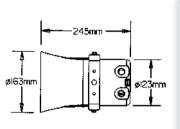
Ordering Code PX807915 PX807908

Standard Product Configuration

Standard model has 100V line transformer, natural black GRP body, 2 x 20mm entries, fitted with one certified plug, integral E-chamber, earth continuity.



DB14 | 15 Watt Speaker – Weatherproof & Heavy Duty



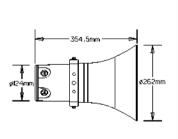
Area Classification	Weatherproof.
Ambient Operating Temperature	-55°C to +70°C
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Output	107 dBA at 1W at 1 metre
Output	117 dBA at 15W at 1 metre
Entries	2 x 20mm
Weight	2.6kg
Tappings	15, 7.5, 5, 4, 2, 0.8
Options	Painted grey, tag & duty labels, transformer voltage, BS 5839, part 8 compliance, earth continuity



Standard models. Available ex-stock. Ordering Code PX808010 **Standard Product Configuration**

Standard model has 100V line transformer, painted grey GRP body to, 2×20 mm entries, no labels.

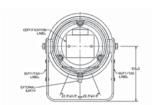
Explosionproof & Weatherproof – 25 and 30 Watt Speaker | DB16

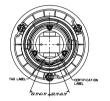


	⟨£x⟩ATEX, UL, GOST 'K', Inmetro		
Certification	ATEX Ex II 2G, EExde IIB T3 ATEX Ex II 2GD, EExde IIC T110°C		
Area Classification	Zone 1, Zone 2 & non-Ex use.		
Certified Ambient Temperature	-50°C to +65°C (25W) -50°C to +40°C (30W)		
Ingress Protection	IP66 & 67		
Material	Corrosion-free GRP IIB version: 1W/1m is 110dBA		
Output	25W/1m is 121dBA		
See data sheet for additional output	30W/1m is 122dBA		
	IIC version: 3dBA less than IIB versions		
Entries	Up to 2 x 20mm or 2 x 25mm		
Weight	5.5kg		
Tappings @ 30 Watts	30, 25, 12, 6, 4, 2		
Options	Body colour, 30W or 25W, transformer, tag & duty labels.		



Explosionproof & Weatherproof – 8 & 4 Watt Speaker | DB20 & DB20C





Ingress Protection Main body material

Tappings @ 8 Watts 8, 4, 2, 1.5, 0.75, 0.4

Certification (A) ATEX, IECEx, GOST 'R' and 'K', Inmetro Flameproof and ATEX Ex II 2G, Exde IIB T3/T4 Increased Safety ATEX Ex II 2GD Exde IIC T4/T5 Area Classification Zone 1& 2 (and Zone 21 & 22 : IIC version) Certified Operating Temperature -55°C to +70°C (DB20) -50°C to +70°C (DB20C) Corrosion-free GRP and ABS (DB20C) Output IIC version 110 dB(A) (DB20) 100 dB (DB20C) at 1W at 1 metre 106 dB(A) at 4W at 1 metre 109 dB(A) at 8W at 1 metre IIB version 3 dB(A) higher than IIC versions Entries 2 x 20mm Dimensions / Weight L137 x Ø124mm / 1.5kg Tappings @ 4 Watts 4, 2, 1, 0.75, 0.38, 0.2



Available in stirrup or ceiling mount

Standard	models.
Available	ex-stock.

Ordering Code	Power
PX804301	8 watts
PX804302	4 watts
PX804304	8 watts
PX804305	4 watts

Standard Product Configuration

Standard ATEX IIC models have 100V line transformer, natural black GRP body, 2 x 20mm entry, one certified plug, no label.

Standard ATEX IIB models have 100V line transformer, natural black GRP body, 2 x 20mm entry, one certified plug, no label.





Detectors, Controls, Distribution

Here at Cooper MEDC we offer standard and bespoke control and distribution units for harsh and hazardous areas.

The control units are designed with convenient operation, safety and reliability in mind. As a leading manufacturer of hazardous area and explosion proof equipment, Cooper MEDC can provide hazardous and safe area control units in a range of dimensions to suit your required specification*.

*Manufacturer dependent.



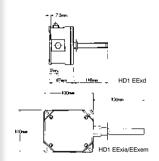
Detectors, Controls & Distribution

HD1 | Heat Detector - Explosionproof & Intrinsically Safe



EExia/EExem

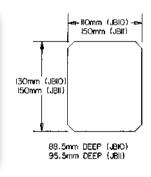




JB10 & JB11 | GRP Junction Boxes - Explosionproof & Weatherproof



Certification	ξχ ATEX, UL
Increased Safety	ATEX Ex II 2G, EExe(m) II T3, T4, T5 & T6
Area Classification	Zone 1 & 2 use.
Certified Operating Temperature	-55°C to +55°C (model dependent)
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	Multiple entries per face *
Weight	1.1kg JB10 approx 1.8kg JB11 approx
Options	Body colour, tag label, terminals, external earth, gland continuity, LED, stainless steel fittings, side cable entries, high temp. version (up to +125°C)



* Refer to datasheet

Standard models. Available ex-stock.

Certification ATEX Ex II 2G

Terminals 6 x SAK 2.5 **Ordering Code** PX810001

Model JB10

Standard Product Configuaration

Standard models have earth terminal, gland continuity. 4 x M20 entries, 1 on each face, natural black finish.

GHG 41181 | Control Units - Explosionproof & Weatherproof



*Dependent on version

Certification	⟨Ex⟩ATEX, UL
Increased Safety	ATEX Ex II 2GD, EExed IIC T6
Area Classification	Zones 1,2 and safe area.
Certified Ambient Temperature	-55°C to +50°C, Versions with switch -55°C to +45°C
Ingress Protection	IP65 & 66*
Material	Impact Resistant Thermo Plastic
Entries	1x M20 Bottom entry as standard
Weight	Approx. 0.5kg (model dependant)
Options	Pushbuttons, emergency stop, rotary switches & block, potentiometer, lamps, key switch, gold contact block.

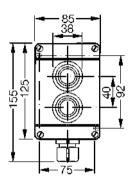
Standard models. Available ex-stock.

Certification ATEX Ex II 2GD PX809102 - Em Stop M/H* PX809101 - P/B*

* Refer to datasheet



Explosionproof & Weatherproof - Control Units | GHG 41182



⟨€x⟩ ATEX, UL Certification ATEX Ex II 2GD, EExed IIC T6 Increased Safety Area Classification Zones 1,2 and safe area. Certified Ambient Temperature -55°C to +50°C, Versions with switch -55°C to +45°C Ingress Protection IP65 & 66* Material **Impact Resistant Thermo Plastic** Entries 1x M20 Bottom entry as standard Weight Approx. 0.5kg (model dependant) Pushbuttons, emergency stop, contact block, Options padlockable, rotary switches & block, potentiometer, lamps, gold contact block, key switch.



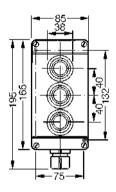
*Dependent on version

Certification ATEX Ex II 2GD

Ordering Code PX809201 - Start Stop* PX809202 - Start Em-Stop*

* Refer to datasheet

Explosionproof & Weatherproof - Control Units | GHG 41183



Certification	⟨£x⟩ATEX, UL
Increased Safety	ATEX Ex II 2GD, EExed IIC T6
Area Classification	Zones 1,2 and safe area.
Certified Ambient Temperature	-55°C to +50°C, Versions with switch -55°C to +45°C
Ingress Protection	IP65 & 66*
Material	Impact Resistant Thermo Plastic
Entries	1x M20 Bottom entry as standard
Weight	Approx. 1.3kg (model dependant)
Options	Pushbuttons, emergency stop, contact block, padlockable, rotary switches & block, potentiometer, lamps, gold contact block.



*Dependent on version

EExed & Weatherproof | 432 434 Range

	_
Certification	Ex, ATEX, UL
Area Classification	Zones 1,2 and safe area
Certified Ambient Temperature	-55°C to +50°C, Versions with switch -55°C to +45°C
Ingress Protection	IP65/66*
Material	Impact Resistant Themo Plastic
Entries	2x M20 Bottom entry as standard
Weight	0.8kg to 1.6kg
Options	Pushbuttons, emergency stop, contact block, rotary switches & block, potentiometer, lamps, gold contact block.





*Dependent on version



Standard models. Available ex-stock.

Detectors, Controls & Distribution

GHG 74 & 44 Range | Terminal Boxes & Control Units - Explosionproof & Weatherproof



*Dependent on version

A range of GRP or 316 Stainless Steel Terminal Boxes and Control Units. The Control Units can be fitted with a variety of lamps, switches, pushbuttons and other accessories.

Certificati	on	⟨£x⟩ ATEX	(, UL	
Increased	Safety	ATEX Ex II 2GD, EExe II T4/T6*		e II T4/T6*
Ingress Pi	rotection	IP65/66*		
Area Clas	sification	Model de	pendant - r	efer to datasheet
Material		Corrosion	n-free GRP	or 316 Stainless Steel
Dimension	ns (mm):			
Box Type	Box Type	Width x	Height x	Depth*
444 23	744 01	271	134	136
448 23	745 02	271	271	136
449 23	746 02	544	271	136
471 23	749 04	817	271	136
444 33	744 21	175	312.5	151
448 33	745 22	312.5	312.5	151
449 33	146 23	312.5	312.5	151
447 33	749 24	941.5	312.5	151

GP1, 2, 3 & 4, G2, JL Range | Control Units & Motor Starters – Explosionproof & Weatherproof



A range of custom built control and motor starter units which can be used individually or combined to provide hazardous area systems for indoor or outdoor use.

Certification	(Ex) ATEX			
Flameproof	ATEX E	x II 2G, EE	cd	
Ingress Protection	IP65 &	66		
Area Classification	Model	dependant	- refer to datash	eet
Material	Cast ir	on, Stainles	s Steel or Alloy	*
Dimensions (mm):	Width	Height x D	epth	
GP1/GP1S	580	480	240	
GP2/GP2S	480	275	243	
GP3/GP3S	580	480	365	
JL4/2/JL4/2S	305	265	150	
JL4/3/JL4/3S	305	265	237	
G2/G2S	156	257	175	

^{*}Model dependant

Distribution Panels & Boards | - Explosionproof & Weatherproof



A range of custom built distribution systems utilising Cooper MEDC's expertise in hazardous area applications to ensure a safe and reliable solution to customer specifications.

Certification	ξ _X ATEX
Flameproof	ATEX Ex II 2G, EExd IIB
Ingress Protection	IP66
Area Classification	Model dependant - refer to datasheet
Material	Cast iron, Stainless Steel or Alloy. *

^{*}Model dependant





Heavy Duty Industrial & Marine

Cooper MEDC offer products suitable for Heavy Duty Industrial and Marine environments.

The Cooper MEDC range includes sounders, beacons, combination units in heavy duty designs with high ingress protection ratings.

Products conform to IP 66 & 67 ratings, as well as a variety of other globally recognised certifications.

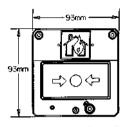


Heavy Duty Industrial & Marine

BG3W | Break Glass Call Point - Weatherproof & Heavy Duty



Area Classification	Model dependant - refer to datasheet
Operating Temperature	-55°C to +55°C
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	2 x 20mm
Weight	0.5kg
Options	Body colour, LED, lift flap, series & EOL resistors, tag & duty labels.



62mm DEEP (SURFACE MOUNT) 25mm DEEP (FLUSH/PANEL MOUNT)

Standard models. Available ex-stock **Ordering Code** PX800006

Standard Product Configuration

Standard models are surface mount version, have 2 x 20mm bottom entries, natural red GRP, single switch glass label 'Fire Break Glass Press Here', duty label 'Burning House'

XB13 | 10 Joule Flashing Xenon – Weatherproof & Heavy Duty



Standard models Available ex-stock.

Area Classification	Weatherproof.
Operating Temperature	-55°C to +70°C
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP body, Polycarbonate lens
Entries	Up to 3 x 20mm via knockouts
Weight	1.1kg
Options	Body & lens colour, tag & duty labels, lens guard, telephone & relay initiate, single & dual flash mode, voltages 12-24V d.c., 115-230V a.c.

Lens Colour Ordering Code Voltage 24V d.c. Red PX813101 24V d.c. PX813102 Amber PX813103 230V a.c. Red

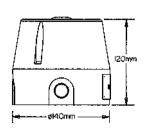
Standard Product Configuration

Standard models are in painted red body colour, no tag or duty labels, no lens guard, 3 x 20mm entries via knockouts, 60 flashes per minute (single flash mode), dual & single flash modes.

DB12 | 110dB(A) Sounder – Weatherproof & Heavy Duty



Area Classification Weatherproof. -55°C to +70°C Operating Temperature Ingress Protection IP66 & 67 Corrosion-free GRP Material Up to 3 x 20mm via knockouts Weight 1kg d.c 1.2kg a.c. No. of Tones 27 Body colour, tag & duty labels, voltages 12V & 24V d.c. Options



Standard models. Available ex-stock.

Voltage 24V d.c. 115/230V a.c.

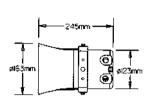
Alarm Type Two Stage Single Stage Ordering Code PX808001 PX808003

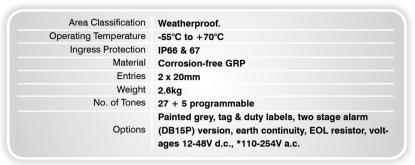
Standard Product Configuration

Standard model has 27 tones, painted red body colour, no tag or duty labels, 3 x 20mm entries via knockouts.



Weatherproof & Heavy Duty – 117dB(A) Sounder | DB15







*Not available in a.c. version for DB15P.

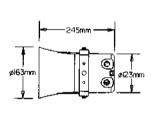
Standard models. Available ex-stock.

Voltage	Body Colour	Alarm Type	Ordering Cod
24-48V d.c.	Grey	Two stage	PX808110
24-48V d.c.	Red	Two stage	PX808115
240V a.c.	Grey	Single stage	PX808120
240V a.c.	Red	Single stage	PX808125

Standard Product Configuration

Standard model has 27 tones, 2 x 20mm entries.

Weatherproof & Heavy Duty – 15 Watt Speaker | DB14



Area Classification	Weatherproof.
Ambient Operating Temperature	-55°C to +70°C
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Output	107 dBA at 1W at 1 metre
Output	117 dBA at 15W at 1 metre
Entries	2 x 20mm
Weight	2.6kg
Tappings	15, 7.5, 5, 4, 2, 0.8
Options	Painted grey, tag & duty labels, transformer voltage, BS 5839, part 8 compliance, earth continuity



Standard models. Available ex-stock. Ordering Code PX808010 **Standard Product Configuration**

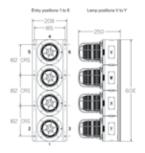
Standard model has 100V line transformer, painted grey GRP body to RAL 7035, 2 x 20mm entries, no labels.



This section includes products which are internationally approved within North America.







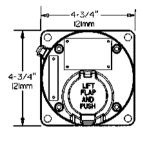
Exd, Weatherproof — Status Lights | SL15 UL

Certification	ξχ UL, ATEX, and IEC Ex Approved
Area Classification	Model dependant - refer to datasheet
Certified Ambient Temperature	-55°C to +70°C
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	Up to 2 x $\frac{1}{2}$ " or 2 x $\frac{3}{4}$ " entries. ATEX has M20 or M25.
No. of Ways	Up to 4
Options	Various flash rates available for xenon units. Various lens colours. Optional cast or wire lens guard.



UL Versi

Explosionproof & Weatherproof – Push Button Fire Alarm Call Point | SM87PB UL

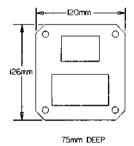


5-3/16" / 132mm DEEP

North American Certifications	UL, ULC, CSA, Class I, Div 1, Groups C & D, Class I, Zone 1
Area Classification	Model dependant - refer to datasheet
Certified Ambient Temperature	-67°F to +158°F
Certilled Ambient Temperature	-55°C to +70°C
Ingress Protection	NEMA 4x & 6
ingress i rotection	IP66 & 67
Material	Marine Grade Alloy
Entries	Up to 4 x ½" or ¾" NPT
Weight	5.5lb/2.5kg
Options	Body color, tag & duty labels, LED, series or EOL resistor, diode, addressable module, certification



Hazardous Locations - Break Glass Fire Alarm Call Point | BG UL



North American Certifications	UL, Class I, Div 2, Groups A ,B, C & D, Class I, Zone 2
Area Classification	Model dependant - refer to datasheet
Certified Ambient Temperature	-13°F to +131°F -25°C to +55°C
Ingress Protection	NEMA 4x & 6 IP66 & 67
Material	Corrosion-free GRP
Entries	Up to 4 x ½" NPT
Weight	2.6lb/1.2kg
Options	Body color, tag & duty labels, LED, liftflap, series or EOL resistor, plastic element, single or double pole switch, certification

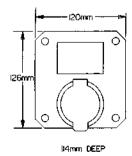


Standard models stocked in U.S. - contact the U.S. sales office

Standard models.
Available ex-stock.

Ordering Code PX869101 Product description BGUL4C6C1DSN6R

Hazardous Locations - Push Button Fire Alarm Call Point | PB UL



North American Certifications	UL, CSA, Class I, Div 2, Groups A ,B, C & D, Class I, Zone 2
Area Classification	Model dependant - refer to datasheet
Certified Ambient Temperature	-13°F to +131°F -25°C to +55°C
Ingress Protection	NEMA 4x & 6 IP66 & 67
Material	Corrosion-free GRP
Entries	Up to 4 x ½" NPT
Weight	2.6lb/1.2kg
Options	Body color, tag & duty labels, LED, series or EOL resistor, single or double pole switch, certification

Standard models. | Ordering Code | Produc Available ex-stock. | PX869105 | PBUL4

Product description PBUL4C6C0DSN7R

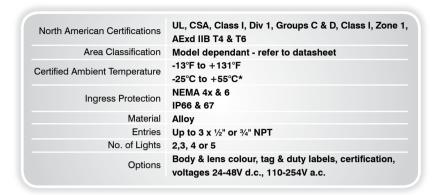


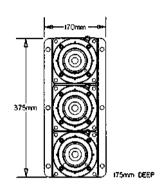
Standard models stocked in U.S. - contact the U.S. sales office



SM87SL UL | Xenon, Filament & Fluorescent Status Lights – Explosionproof & Weatherproof



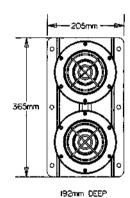




XB11SL UL | Xenon & Filament Status Lights - Hazardous Locations



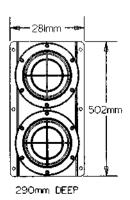
North American Certifications	UL, Class I, Div 2, Groups C & D, Class 1, Zones 1 & 2, AExd IIB T4
Area Classification	Model dependant - refer to datasheet
Cartified Ambient Temperature	-67°F to +158°F
Certified Ambient Temperature	-55°C to +70°C
Ingress Protestics	NEMA 4x & 6
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	1 x ½" NPT
No. of Lights	2,3,4, or 5
Options	Body & lens color, tag & duty labels.



XB12SL UL | Xenon & Filament Status Lights – Hazardous Locations



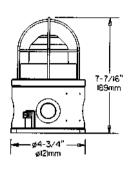
North American Certifications	UL, Class I, Div 2, Groups C & D, Class I, Zones 1 & 2, AExd IIB T4 & T5
Area Classification	Model dependant - refer to datasheet
Certified Ambient Temperature	-67°F to+158°F -55°C to +70°C
Ingress Protection	NEMA 4x & 6 IP66 & 67
Material	Corrosion-free GRP
Entries	1 x ½" NPT
No. of Lights	2, 3, 4 or 5
Options	Body & lens color, tag & duty labels, certification, voltages 24V d.c., 110-254V a.c.



^{*}Model dependant, refer to data sheet.



Explosionproof & Weatherproof – 5 Joule Xenon Strobe | SM87 HXB UL

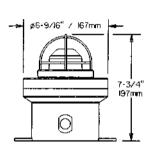


North American Certifications	UL, CSA, Class I, Div 1, Groups C & D, Class I, Zone 1, AExd IIB
Area Classification	Model dependant - refer to datasheet
Certified Ambient Temperature	-67°F to +158°F -55°C to +70°C
Ingress Protection	NEMA 4x & 6 IP66 & 67
Material	Alloy
Entries	Up to 4 x 1/2" or 3/4" NPT
Weight	4.4lb/2.0kg approx
Options	Body & lens color, tag & duty labels,certification, lens guard, flash rate, voltages 24-48V d.c.,110-254V a.c., high temp version up to 185°F/85°C



Standard model stocked in U.S. - contact the U.S. sales office

Hazardous Locations – 5 Joule Xenon Strobe | XB11 UL



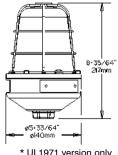
North American Certifications	UL, Class I, Div 2, Groups C & D, Class I, Zones 1 & 2, AExd IIB T5
Area Classification	Model dependant - refer to datasheet
Certified Ambient Temperature	-67°F to +158°F -55°C to +70°C
Ingress Protection	NEMA 4x & 6 IP66 & 67
Material	Corrosion-free GRP
Entries	2 x ½" NPT
Weight	5 ½ lb 2.5kg
Options	Body & lens color, tag & duty labels, lens guard, flash rate, certification, mounting method. voltages 24V d.c., 110-254V a.c,



Standard model stocked in U.S. - contact the U.S. sales office

Standard models. Available ex-stock. Ordering Code PX869174 Product description XB11UL02406CNBNNNR

Hazardous & Ordinary Locations - 10 Joule Flashing Xenon | XB16 UL



* UL1971 version only available with clear lens option

North American Certifications	UL 1971 compliant*, Class I, Div 2, Groups A-D Class II, Div 2, Groups F & G
Area Classification	Model dependant - refer to datasheet
Certified Ambient Temperature	-67°F to +158°F -55°C to +70°C
Ingress Protection	NEMA 4x & 6 IP66 & 67
Material	Corrosion-free GRP
Entries	Standard 1 x ¾" NPT
Weight	2.2lb/1kg
Options	Body & lens color, lens guard, tag & duty labels, initiation options, flash rate, voltages 24-48V d.c., 110-254V a.c.



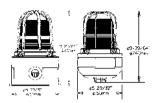
Standard model stocked in U.S. - contact the U.S. sales office

Standard models. Available ex-stock. Ordering Code PX869407 Product description XB16UL12060RYNN

XB15 UL | 15 Joule Flashing Xenon - Hazardous & Ordinary Locations







Direct Mount Pipe Mount

Standard model stocked in U.S. - contact the U.S. sales office

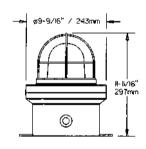
Standard models. Available ex-stock. **Ordering Code** PX869402

Product description XB15UL12006RWPNN

XB12 UL | 21 Joule Xenon Strobe - Hazardous Locations



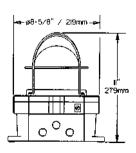
North American Certifications	UL, Class I, Div 2, Groups C & D, Class I, Zones 1 & 2, AExd IIB T4 & T5
Area Classification	Model dependant - refer to datasheet
Certified Ambient Temperature	-67°F to +158°F -55°C to +70°C
Ingress Protection	NEMA 4x & 6 IP66 & 67
Material	Corrosion-free GRP
Entries	Up to 2 x 1/2" NPT
Weight	15.5lb/7.0kg
Options	Body & lens color, tag & duty labels, lens guard, flash rate, certification, mounting method voltages 24V d.c., 110-254V a.c.



XB4 UL | 21 Joule Xenon Strobe - Explosionproof & Weatherproof

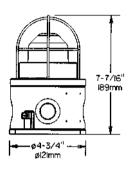


North American Certifications	UL, Class I, Div 1, Groups C & D, Class I, Zone 1, AExd IIB T4
Area Classification	Model dependant - refer to datasheet
Certified Temperature	-67°F to +158°F -55°C to +70°C
Ingress Protection	NEMA 4x & 6 IP66 & 67
Material	Alloy or Stainless Steel
Entries	Up to 3 x 1/2" or 3/4" NPT
Weight	14.5lb/6.6kg LM Alloy
Options	Body & lens color, tag & duty labels, lens guard, flash rate, certification, voltages 24V d.c., 110V & 240V a.c.





Explosionproof & Weatherproof – LU3 UL 10 Watt Steady Filament Light | SM87 LU3 UL

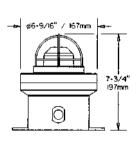


North American Certifications	UL, CSA, Class I, Div 1, Groups C & D, Class I, Zone 1, AExd IIB
Area Classification	Model dependant - refer to datasheet
Certified Temperature	-67°F to +131°F -55°C to +55°C
Ingress Protection	NEMA 4x & 6 IP66 & 67
Material	Alloy
Entries	2 x ½" or ¾" NPT
Weight	4.4lb/2.0kg
Options	Body & lens colour, tag & duty labels, lens guard, certification, voltages 12, 24, 48V d.c., 110V-254V a.c.



Standard model stocked in U.S. - contact the U.S. sales office

Hazardous Locations - 10 Watt Steady Filament Light | FB11 UL

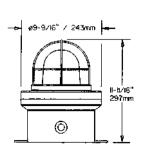


*Model dependant

North American Certifications	UL, Class I, Div 2, Groups C & D, Class I, Zone 1, AExd IIB T4/T5
Area Classification	Model dependant - refer to datasheet
Certified Temperature	*-67°F to +131°F -55°C to +55°C
Ingress Protection	NEMA 4x & 6 IP66 & 67
Material	Corrosion-free GRP
Entries	Up to 2 x ½" NPT
Weight	6.2lb/2.8kg
Options	Body & lens color, tag & duty labels, lens guard, mounting method, certification, voltage 24, 48V d.c., 110 – 120V a.c.



Hazardous Locations – 60/100 Watt Steady Filament Light | FB12 UL



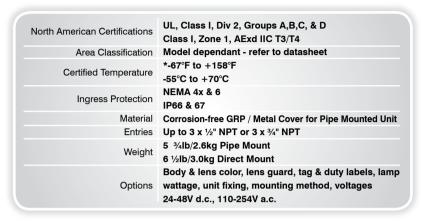
*Model dependant

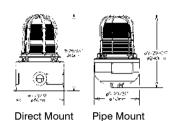
North American Certifications	UL, Class I, Div 2, Groups C & D, Class I, Zone 1, AExd IIB T4/T5
Area Classification	Model dependant - refer to datasheet
Certified Temperature	*-67°F to +131°F -55°C to +55°C
Ingress Protection	NEMA 4x & 6 IP66 & 67
Material	Corrosion-free GRP
Entries	Up to 2 x ½" NPT
Weight	16.7lb/7.6kg
Options	Body & lens color, tag & duty labels, lens guard, mounting method, certification, voltage 120V a.c.



FB15 UL | 60W Steady Filament Light - Hazardous & Ordinary Locations



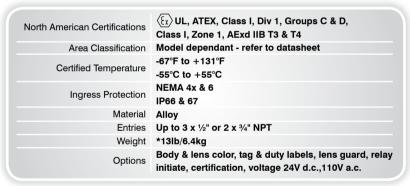


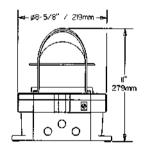


*Model dependant

FB4 UL | 60 Watt Steady Filament Light - Explosionproof & Weatherproof



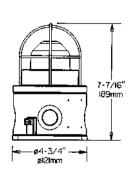




SM87 LU1 UL | 10 Watt Steady Fluorescent Light - Explosionproof & Weatherproof



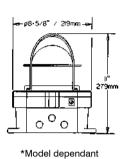
North American Certifications	UL, CSA, Class I, Div 1, Groups C & D, Class I, Zone 1, AExd IIB
Area Classification	Model dependant - refer to datasheet
Certified Temperature	-67°F to +131°F -55°C to +55°C
Ingress Protection	NEMA 4x & 6 IP66 & 67
Material	Alloy
Entries	2 x ½" or ¾" NPT
Weight	4.4lb/2.0kg
Options	Body & lens colour, tag & duty labels, lens guard, certification, voltages 24-48V d.c. 220V-254V a.c.



^{*}Model dependant



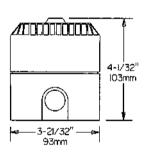
Explosionproof & Weatherproof - 13-39 Watt Steady Fluorescent Light | FL4 UL



North American Certifications	UL, Class I, Div 1, Groups C & D, Class I, Zone 1, AExd IIC T5
Area Classification	Model dependant - refer to datasheet
Certified Temperature	-4°F to +131°F -20°C to +55°C
Ingress Protection	NEMA 4x & 6 IP66 & 67
Material	Alloy
Entries	Up to 3 x 1/2" NPT or 3 x 3/4" NPT
Weight	*14.5lb/6.6kg
Options	Body & lens color, tag & duty labels, lens guard, relay initiate, certification, voltages 24V d.c., 110V, 240V a.c.



Intrinsically Safe - FM Up to 93dB(A) @ 10ft Horn | DB5 FM UL

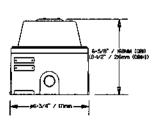


North American Certifications	UL, FM, CSA, Class I, Div 1 & 2, Groups A,B,C & D
Area Classification	Model dependant - refer to datasheet
Area Glassification	-4°F to +131°F
Certified Temperature	
	-20°C to +55°C
Ingress Protection	NEMA 4
Ingress Protection	IP65
Material	Corrosion-free ABS
Entries	Up to 2 x 13/16" via knockouts
Weight	0.7lb/0.3kg
No. of Tones	26
Options	Body color, label, certification, voltages 12V-24V d.c.



Standard models stocked in U.S. – contact the U.S. sales office.

Explosionproof & Weatherproof – 103dB(A) @ 10ft Horn | DB1HP UL



North American Certifications	UL, Class I, Div 1, Groups C & D, Class I, Zone 1
Area Classification	Model dependant - refer to datasheet
Certified Temperature	-13°F to +158°F -25°C to +70°C
Ingress Protection	NEMA 4x IP66
Material	Alloy
Entries	Up to 3 x ½ " or ¾" NPT
Weight	7.7lb/3.5kg (model dependant)
No. of Tones	27 + 5 Programmable
Options	Body color, tag & duty labels, certification, voltages 12,24,48V d.c., 110V a.c.

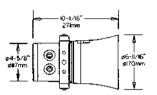


Standard models stocked in U.S. - contact the U.S. sales office.

DB3 UL | 115dB(A) @ 1m Horn - Hazardous Locations



North American Certifications	UL, ULC, Class I, Div 2, Groups A,B,C & D Class II, Div 2, Groups F & G Class I, Zones 1 & 2, AExd IIC T4
Area Classification	Model dependant - refer to datasheet
Certified Temperature	-67°F to +158°F -55°C to +70°C
Ingress Protection	NEMA 4x & 6 IP65 & 67
Material	Corrosion-free GRP
Entries	Up to 2 x ½" NPT
Weight	11lb/5.0kg
No. of Tones	27 + 5 Programmable
Options	Body color, tag & duty labels, end of line resistor, certification, voltages 12-48V d.c., 110V-254V a.c.

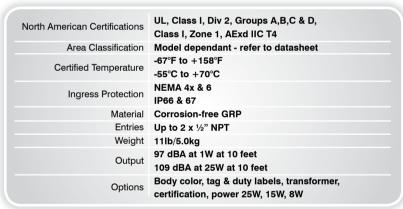


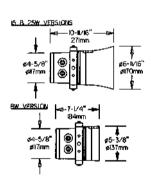
Standard model stocked in U.S. - contact the U.S. sales office.

Standard models. Available ex-stock. Ordering Code PX869131 Product description DB3UL048N2CNRZ

DB4 UL | 8-25 Watt Speaker - Hazardous Locations



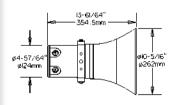




DB16 UL | 30 Watt Speaker - Hazardous Locations



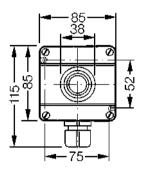
North American Certifications	UL, Class I, Div 2, Groups C & D/A-D
North American Certifications	Class I, Zone 1, AExde IIB T3/IIC T110°C
Area Classification	Model dependant - refer to datasheet
O-45-4 T	-61°F to +90°F
Certified Temperature	-50°C to + 40°C
Ingress Brotostion	NEMA 4x & 6
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
	Groups C & D: 100dBA at 1Watt at 10 feet
*Output	112dBA at 30 Watts at 10 feet
	Groups A-D: 3dBA less than C & D versions
Entries	Up to 2 x 1/2" NPT or 2 x 3/4" NPT
Weight	12.1lb/5.5kg
Tappings @ 30 Watts	30, 25, 12, 6, 4, 2
Options	Body color, transformer, tag & duty labels.



^{*}See data sheet for additional output.



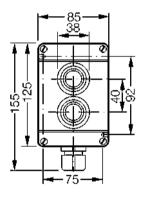
Hazardous Locations - Control Units | GHG 41181 UL



North American Certifications Area Classification Certified Temperature Ingress Protection	UL, Class I, Div 2, Groups A,B,C & D Class I, Zone 1, AExde IIB+H2 T6 Class II, Div 1, Groups E,F&G(cUL) Model dependant - refer to datasheet -4°F to + 104°F -20°C to +40°C NEMA 4x & 6, IP65 & 66 Impact Resistant Thermo Plastic
Material	1 x ½" NPT as standard
Entries	0.5kg - 1.3kg
Weight	Pushbuttons, emergency stop, padlockable, contact
Options	block, rotary switches & block, potentiometer, lamps



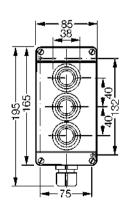
Hazardous Locations - Control Units | GHG 41182 UL



North American Certifications	UL, \(\overline{\xx}\) ATEX, Class I, Div 2, Groups A,B,C & D Class I, Zone 1, AExde IIB+H2 T6 Class II, Div 1, Groups E,F&G(cUL)
Area Classification	Model dependant - refer to datasheet
Certified Temperature	-4°F to + 104°F -20°C to +40°C
Ingress Protection	NEMA 4x & 6, IP65 & 66 Impact Resistant Thermo Plastic
Material	1 x 1/2" NPT as standard
Entries	0.5kg - 1.3kg
Weight	Pushbuttons, emergency stop, padlockable, contact
Options	block, rotary switches & block, potentiometer, lamps



Hazardous Locations – Control Units | GHG 41183 UL



North American Certifications	UL, Class I, Div 2, Groups A,B,C & D Class I, Zone 1, AExde IIB+H2 T6 Class II, Div 1, Groups E,F&G(cUL)
Area Classification	Model dependant - refer to datasheet
Certified Temperature	-4°F to + 104°F -20°C to +40°C
Ingress Protection	NEMA 4x & 6, IP65 & 66*
Material	Impact Resistant Thermo Plastic
Entries	1 x ½" NPT as standard
Weight	0.5kg - 1.3kg
Options	Pushbuttons, emergency stop, padlockable, contact block, rotary switches & block, potentiometer, lamps



*Model dependent

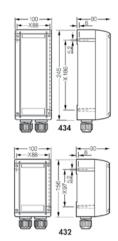




*Model dependant

432 434 Range | EExed & Weatherproof

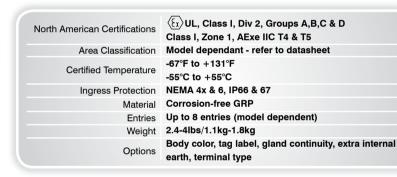
North American Certification	$\langle E_{\rm X} \rangle$ Ex, ATEX, UL
Area Classification	Class I, Zone 1, AExde IIB+H2 T6 Class II, Div 1, Groups E,F&G(cUL)
Certified Ambient Temperature	-4°F to + 104°F -20°C to +40°C
Ingress Protection	NEMA 4x & 6, IP65 & 66*
Material	Impact Resistant Themo Plastic
Entries	2 x ½" NPT as standard
Weight	1.75lbs-3.5lbs / 0.8kg-1.6kg
Options	Pushbuttons, emergency stop, padlockable, contact block, rotary switches & block, potentiometer, lamps.

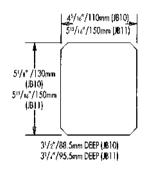


JB10 & JB11 UL | GRP Junction Boxes - Explosionproof & Weatherproof



A range of GRP Terminal Boxes and Control Units. The Control Units can be fitted with a variety of lamps, switches, pushbuttons and other accessories.





GHG 74 & 44 UL | Terminal Boxes & Control Units - Hazardous Locations



*Model dependant

All specifications, dimensions, weights and tolerances are nominal (typical) and MEDC reserve the right to vary all data without prior notice. No liability is accepted for any consequence of use.

North American O 110				
North American Certificat	0_	UL		
Increased Sa	Class I	Class I, Div 2, Groups A,B,C & D Class I, Zone 1, Groups A,B,C & D Class II, Div 1, Groups E, F & G AExde IIC T4, T6*		
Area Classifica	ation Model	Model dependant - refer to datasheet		
Ingress Protection	ction IP65/60	5*		
Mat	erial	ion-free GRF ainless Steel	or or	
	Din	nensions (mr	n):	
Box Type Box	Type Width	x Height x D	epth*	
444 23 744	01 271	134	136	
448 23 745	02 271	271	136	
449 23 746	02 544	271	136	
471 23 749	04 817	271	136	
444 33 744	21 175	312.5	151	
448 33 745	22 312.5	312.5	151	
449 33 146	23 312.5	312.5	151	
447 33 749	24 941.5	312.5	151	

Notes

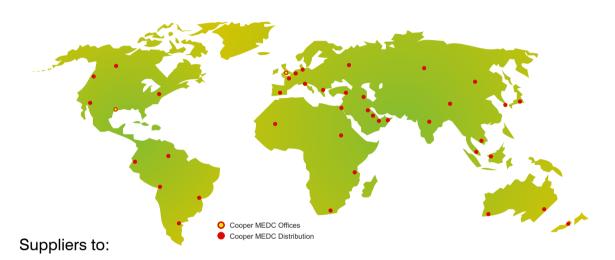


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