

Section S

A comprehensive range of signaling products specifically designed for use in areas where harsh environmental conditions prevail and where there is a risk of explosion due to the presence of flammable atmospheres.



Signaling Devices - Visual and Audible

Table of Contents

Section S of the Cooper Crouse-Hinds catalog contains the following product groupings:

Section 1S Fire Alarm or Emergency Call Points and Heat Detectors

(for use in hazardous areas) Call points are used for fire alarm activation, evacuation, and process shutdown. Heat detectors are used in turbine/generator skids, switchgear or motor control status rooms, and process tank areas or transmission lines

SM87PBL BG3 SM87BG HD1 PB BG BG2

S

Section 2S Strobe Lights

(for use in hazardous and non-hazardous areas) Strobe lights for condition signaling, security alerts, equipment obstruction warnings, and emergency evacuation signaling

XB15	XB12	VWL
XB16 UL	XB13	OX2L
SM87 HXB	EXFASC	VX2L
XB11	EXR	OAL
XB4	OWL	VAL

Section 3S Steady-On Beacons

(for use in hazardous areas) For safety lighting, continuous communication sources, obstacle warnings, exit or entrance lights, and for identifying the location of safety equipment such as showers or emergency telephones

FB4 FL4 FB11 UL FB12 UL FB15 SM87 LU3 SM87 LU1 EXSO, EXDSO VF

S

Section 4S Status Lights

(for use in hazardous areas) For process status, messaging, and alert or emergency condition indication

SM87 SL XB11 SLUL XB12 SL, FB12 SL

Section 5S Speakers and Tone Generators (for use in hazardous areas) For plant-wide alarm notifications and

audible process alarms

DB1	ETH855, ETH845
DB3	ETH840, ETH640
DB4	ETH
DB5	W2H
DB12	WH
DB15	ESR
DB16 UL	

Section 6S

Visual and Audible Combination Units

(for use in hazardous areas) Strobe light and audible tone generator in one package

DB3 / XB11 DB3 / SM87HX DB12 / XB13



Visual and Audible Signaling Devices

For Hazardous and Non-hazardous Locations

Visual and Audible Signaling Devices as tough as your environment

- The broadest line of harsh and hazardous signaling, alarm and communication products available in both IEC and NEC designs and certifications.
- Hazardous area call points (fire alarm or emergency notification devices) provides you a unique product offering unequalled by any other manufacturer of hazardous location signaling products.
- Worldwide listings with UL, cUL, ATEX, GOST, CSA and CQST (Chinese) approvals provide customer solutions that the competition can't match.
- Superior enclosure materials providing unmatched ingress protection and corrosion resistance from the harshest conditions.
- A unique signaling product offering integral visual and audible signaling capability pre-wired for simultaneous output activation.
- Heat detectors for early indication of potential processing problems.

Applications:

- For use in hazardous and non-hazardous areas.
- As visual signals or warning lights.
- To identify the location of safety equipment such as emergency shower, eye wash stations, and emergency telephones, fire extinguishers and emergency stop switches.
- For status indication of machinery or processes.
- To indicate dangerous areas or areas requiring caution.
- To signal dangerous or hazardous conditions.
- Where a high-decibel sound is required for alert or evacuation.

Considerations for Selection:

Environmental:

 What is the hazardous area classification (NEC/CEC) of the location in which the luminaire will be installed?

Signaling Requirements:

• What will the visual signal be used for (communicating, alerting, warning)?

Physical Arrangements:

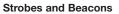
• Type of luminaire mounting needed.





S

Manual Call Points





Horns and Speakers

What Types of Visual Signals

powerful blast of bright light.

be seen from a long distance.

area, machine or process.

1. Strobe Lights - Used for signaling or

2. Rotating Beacons - Used to signal

warning of various conditions. Emits a

over a large area when the light must

communicate or draw attention to an

Compact and versatile, the three-color

(red, amber and green) is most popular.

3. Steady-on Beacons - Typically used

as a continuous source to warn,

4. Stack Lights - Used for multiple

indication in one signaling device.

are Available?

Combination Units

Lens Color and Their Applications

Most Cooper Crouse-Hinds strobes, steady, and flashing beacons come in six lens colors: amber, blue, clear, green, magenta and red. Cooper Crouse-Hinds LED signals come in amber, blue, green, red and, in some cases, white. The following are examples of how various lens colors are used in industrial and commercial signaling environments: **Amber** - Demotes caution **Blue** - Used for safety and security **Clear (or White) and Green** - Used to indicate normal run operation **Magenta** - Used for radiation alarms **Red** - Denotes emergency or warning



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Hazardous

Description	Page No.
Fire Alarm or Emergency Call Points	
BG, BG2, BG3	see pages 1176–1182
PB	see pages 1176-1182
SM87	see pages 1176–1182
Heat Detectors	
HD1	see pages 1183-1185



1S Fire Alarm or Emergency Call Points

Hazardous Locations Weatherproof Marine

MEDC Series



Class I, Div. 2, Zone 2 Touch-safe coated glass for finger activation.

These manual fire alarm call points have been designed for use in hazardous locations and harsh environmental conditions. They offer:

- The broadest range of hazardous location manual fire alarm activation devices in the industry.
- The compact design, activation choices such as pushbutton or break glass, housing color choices and comprehensive worldwide certifications make this product family a project closer.
- Flexibility as all units accept metric cable or NPT conduit entries, and each unit can be custom designed for a specific fire alarm or emergency activation requirements.



Class I, Div. 2, Zone 2 Push to activate.

Applications:

- Fire alarm activation
- Emergency evacuation
- Process shut-down

Industries:

- · Liquid natural gas terminals
- Energy exploration
- Chemical
- Refinery
- Power generation

Features and Benefits:

- In-line and end-of-line resistors fitted for use in fire activation circuits
- Optional LED to indicate operation
- Plastic break glass element available easy activation yet safe to touch
- Corrosion resistant GRP-ideal for marine applications
- Retained stainless steel cover screws won't corrode and never lose screws
- · Optional lift flap for protection



Class I, Div. 1 Push to activate. Key switch to reset.



Fire Alarm or Emergency Call Points

Hazardous Locations Weatherproof Marine **1S**

MEDC Series

SM87PBL	Push But	ton Fire	Alarm Call Point—	Explosionproof	
	Certification UL Listed for: Certified Ambient Temperature		UL, CSA, ATEX Class I, Div. 1, Groups C, D Class I, Zone 1 -67°F to +158°F -55°C to +70°C		4-3/4"
A DEFINITION AND A DEFI					
	Ingress Protection		NEMA 4X & 6 IP66 & 67		
	Material		Marine Grade Alloy Stainless Steel (ATEX c	only)	
	Entries		Up to $4 \times \frac{1}{2}$ " or $\frac{3}{4}$ " NP	5-3/16" / 132mm DEEP	
	Weight		5.5lb/2.5kg		
	Options		Body color, certification		_
Certification	Ordering Code	Cat. #		Standard Product Conf	iguration
UL, CSA, Class I, Div. 1, Groups C, D, Zone 1	36200102	SM87	PBLAUL3T3B3NNR	Explosion protected, 2 × duty label "Fire—Press H pushbutton switch—latc grade alloy, red finish	Here," single

SM87BG	Break Glas				
1	Intrinsically Safe		ATEX, CSA, GOST-R, GOST-K, GB ATEX Ex II 1G, Exia IIC T4 ATEX Ex II 2G, Exd IIC T6		
O FRE BREAK GLASS			-55°C to +70°C -20°C to +55°C (LED)		
	Ingress Protection		IP66 & 67		
	Material		Stainless Steel or Alloy		
	Entries		Up to 4 x 20mm or 25n		
	Weight		3.8kg (Steel) 2.5kg (Alloy)		105mm DEEP
	Options		Body color, 3 & 4 pole changeover switch, certification		
Certification	Ordering Code	Cat. #		Standard Product Configuration	on
ATEX Ex II 2GD	16200174	SM87BGLAD1B1NNR		Break glass call point, Ex II 2GE Exd IIC T6, IP 66 & 67, 1 × M20 bottom entries, duty la "Fire Breakglass," alloy material	bel,

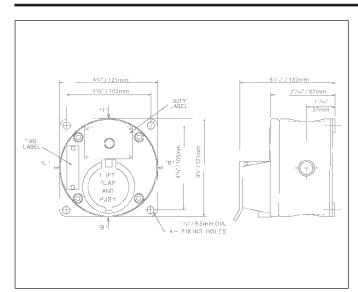
PB	Push Butto	on Fire	Alarm Call Point—I	Hazardous Locations	
0	Certification UL Listed for:		UL, ATEX Class I, Div. 2, Groups Class I, Zones 1 & 2		
FIRE	FIRE Certified Ambient Temperature		–13°F to +158°F –25°C to +70°C		
			NEMA 4X & 6 IP66 & 67		4-15/16"
	Material		Corrosion-free GRP	125mm	
0	Entries		Up to 4 × 1/2" NPT, M20		
	Weight		2.6lb/1.2kg		4-1/2" / 114mm DEEP
	Options:		Body color, certification		1
Certification	Ordering Code	Cat. #		Standard Product Configurati	on
UL, Class I, Div. 2, Groups A, B, C, D, Zone 1 & 2	869105	PBUL4	4C6C0DSN7R	Explosion protected, $2 \times \frac{1}{2}$ " NPT bottom entries, no duty label, DC, single pushbutton switch latching, painted red GRP	
ATEX Ex II 2GD	800010	PBEB4	4B6B0DSN6R	Explosion protected, Ex II 2GD, Exe, IIC, T6 & 2, $2 \times M20$ entries, DC, single switch, red	

1S Fire Alarm or Emergency Call Points

Hazardous Locations Weatherproof Marine

MEDC Series

BG			Break Glass	s Fire <u>Al</u> a	rm Call Po	oint—Hazardous Locat	ions
07	UL Listed for:		UL, ATEX Class I, Div Class I, Zo	/. 2, Groups A, B, C, D ne 2	-4-3/4" / 121mm		
so	DUTH	Certified Ambient Temperature		-13°F to + -25°C to +			
0		Ingres	s Protection		NEMA 4X	\$ 6	4-15/16" 125mm
BREAK		Materi	al		Corrosion-	free GRP	
		Entries				/2" NPT, M20	
0		Weight Option			2.6lb/1.2kg Body color	; certification, lift flap, LED,	2-15/16" / 75mm DEEP
o		•			tag & duty	label, series and EOL resistor	
Certification UL Listed, Class I	Type		Ordering Cod			Standard Product Configuration Explosion protected, $2 \times \frac{1}{2}$ "	
Groups A, B, C, E		Loc.	869101	BGUL4	C6C1DSN7R	break glass switch latching, p	
ATEX Ex II 1GD	Intrir Safe	sically	800002	BGIB4E	36B1DSN6R	single break glass switch latch	<u>.</u>
ATEX Ex II 2GD	Incre Safe	eased ty	800003	BGEB4	B6B1DSN6R	Explosion protected Ex II 2GD DC, $2 \times M20$ bottom entries, s latching, red finish	
IP66 & 67	Wate	erproof	800001	BGWN4	B6B1ASN6R	Dust-tight and weatherproof, u entries, single break glass swit	uncertified AC, $2 \times M20$ bottom tch latching, red finish
BG2		Certifi Intrins Increa	cation sically Safe sed Safety		ATEX ATEX Ex II 1 ATEX Ex II 2	rdous Locations GD, Exia IIC T4 GD, Exed(m) IIC T4 (T6)	120mm
FI	IRE	Tempe	ed Ambient erature		-40°C to +55°C (Exia) -20°C to +50°C (Exed)		126mm
BREAK	GLASS	Mater	s Protection		IP66 & 67 Corrosion-fre	e GRP	
PRESS I	HERE	Entrie	-		2 × M20	2 × M20	
0		Weigh			1.2kg		
	_	Option			Lift flap		75mm DEEP
Certification ATEX Ex II 1GD	Type Intrinsically S		ordering Code	Cat. # BG2INN1I	Explosion	Product Configuration protected, Zone 0, 1 & 2, DC, ak glass switch latching, red fi	
Increased Safety	Increased Sa	fety 8	00004	BG2EDC1	Explosion	protected, Zone 1 & 2, DC, 2 ak glass switch latching, red fi	× M20 bottom entries,
BG3			Break Glass	s Call Poi	int—Explo	sionproof & Weatherpr	oof
To D			cation sted for:		ATEX, G ATEX E	iB < II 1G, Exia IIC T4	93mm
I		Certifi	ed Ambient Te	emperature		o +55°C (Exia)	
BREAK	BLASS	•	s Protection		IP66 & 6		93mm
PRESS	PRESS HERE Material				on-free GRP		
A Province	Entries Weight			2 × M20 0.5kg	1		
		Option				olor, lift flap	62mm DEEP (SURFACE MOUNT)
Certification -	Туре			Cat. #	,	Product Configuration	
	Intrinsically Safe			BG3I1NBN	Explosion p mount vers	protected, Zone 0 / 1 & 2 DC,	ries, single break glass switch
ATEX Ex II 1G	Weatherproof	800	006	BG3W1NBN		, dust-tight & weatherproof, 24 hing, duty label "Burning Hous	
1178 ww	vw.crouse-hinds.cor	n US: 1	-866-764-5454 C	AN: 1-800-265-	0502 Copyright	° 2011 Cooper Crouse-Hinds	COOPER Crouse-Hinds



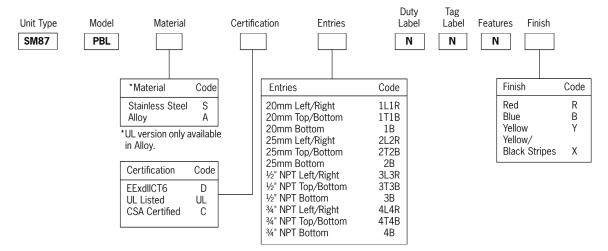
Field Installed Duty Labels

Use with SM87 Call Points:	Duty Label	Ordering Code
SM87PBL/SM87BGL	Blank	869530
SM87PBL/SM87BGL	Fire	869526
SM87PBL/SM87BGL	Emergency Shut Down	869532
SM87PBL/SM87BGL	Suppression Release	869534

Certification:	UL Listed: Class I, Div. 1, Groups C, D and		
Certification.	Class I, Zone 1. Listing No: E186629.		
	CSA Certification:		
	I.S. Version		
	Class I, Groups A, B, C, D		
	Exd Class I, Div. 2 1/2 Group D		
	Enclosure type 4, Cert. No. 79120		
	ATEX approved: EN50014. EN50018		
	Cert. No. Baseefa 03ATEX0075		
Voltage:	24V AC/DC		
Rating:	2 amp		
Switches:	•		
	2 pole c/o, wired to terminals		
Terminals:	Will accept up to 14AWG cable		
Entries:	Up to $4 \times \frac{1}{2}$ " or $\frac{3}{4}$ " NPT, 20mm, 25mm		
Optional	A red high intensity LED can be fitted for alarm		
Indicator:	indication		
Material:	LM 25 TF Marine Grade Alloy or Grade 316		
	ANCHB stainless steel		
Weight:	5.5 lb/2.5kg (approx.)		
Finish:	Epoxy paint finish as standard or to customer's		
	specification		
Certified	Exd/Exi:		
Temperature:	–55°C to 70°C –20°C to +55°C (LED version only)		
	-67°F to +158°F (-55°C to +70°C)		
	–4°F to +131°F (–20°C to +55°C) LED		
	version only		
	–58°F to +131°F (–50°C to +55°C) (Exd) –58°F to +104°F (–50°C to +40°C) (Exi)		
Ingress	NEMA 4X and 6, IP66 & 67		
Protection:	SM87 PB IP68 (40m for 8 hours)		
Addressable:	Consult MEDC for specification		

Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.



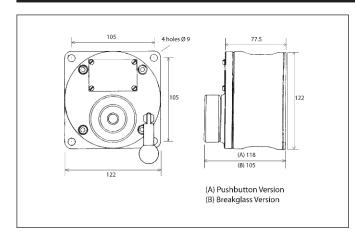


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1S Fire Alarm or Emergency Call Points

Hazardous Locations Weatherproof Marine

MEDC Series



Both the ExialICT4 units and the ExdIICT6 units have the same external appearance. Also the internal components are identical throughout the range. Each unit can be wired for either NO, NC or CO contacts to customer specification.

Field Installed Duty Labels

Use with SM87 Call Points:	Duty Label	Ordering Code
SM87PBL/SM87BGL	Blank	869530
SM87PBL/SM87BGL	Fire	869526
SM87PBL/SM87BGL	Emergency Shut Down	869532
SM87PBL/SM87BGL	Suppression Release	869534

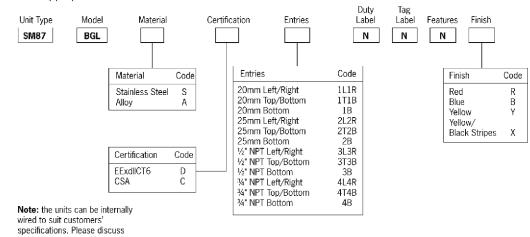
Specification—SM87BGL Unit

opcomoun	
Break glass unit, latching	Type SM87BGL
Lift flap, break glass, latching	Type SM87LBGL
Voltage:	Exd 24V AC/DC Exia 28V
Rating:	2 amp
Switches:	2 pole c/o, wired to terminals
	Optional up to 4 pole
Terminals:	Will accept up to 2.5mm ² cable
Entries:	Up to 4 x 20mm or 25mm ISO EExd/EExia
Optional Indicator:	A red high intensity LED can be fitted for alarm indication
Material:	Grade 316 ANC4B Stainless Steel or LM 25 TF Marine Grade Alloy
Weight:	3.8 kg. steel (approx.) or 2.5 kg. alloy (approx.)
Finish:	Epoxy paint finish as standard or to customer's specification
Certification:	CENELEC EN 50014, EN50018 (for Exd) and EN50020 (for Exi) ExialIC T4 Cert No. Baseefa 02 ATEX 0152X ExdIIC T5/T6 Cert No. Baseefa 03 ATEX 0075 CSA Certification: Class I Groups A-D I.S. version (SM87 PBI only) Class I, Div. 1 & 2, Group D (Exd – SM87 PB & SM87 BG) GOST 'R' Certification: 1Exib IIC T4, 1Exd IIC T4* GOST 'K' Certification: Exib IIC T4* Chinese Certification: CQST – Exia IIC T4, Exd IIC T5/T6* *Available upon request
Certified Temperature:	Exd/Exi* -55°C to +70°C -20°C to +55°C (LED version only) CSA -50°C to +55°C (Exd) -50°C to +40°C (Exi) *Note: includes ATEX, GOST & Chinese versions.
Ingress Protection:	IP66 and IP67 SM87 PB IP68 (40m for 8 hours)
Resistor Values:	470R minimum (DC & I.S. units only)

Ordering Requirements

your requirements with us.

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

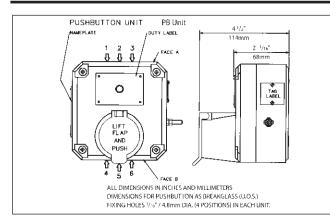




Fire Alarm or Emergency Call Points

Hazardous Locations Weatherproof Marine **1S**

MEDC Series



Field Installed Duty Labels

Use with PB Call Points:	Duty Label	Ordering Code
PB	Blank	869530
РВ	Fire	869526
РВ	Emergency Shut Down	869532
РВ	Suppression Release	869534

Specification-PB Unit

Certification:	UL Listed – Hazardous locations: Class I, Div. 2, Groups A, B, C, D and Class I, Zone 2 UL Listing No. E186629 Ordinary locations: Fire Alarm Boxes. UL Listing No. S8117 CSA Certified to C22.2 (PB only), Nos. 0-M, 0.4M, 14-M, 25,30-M, 94, 142-M 1987, 157M 1987, 157-92, Enclosure Type 4, 4A, Class I, Groups A, B, C, D, Cert. No. 79120 ATEX Approved: EN50014, EN50018, EN50019, EN50028 Cert. No. BAS02ATEX2105X (BG & PB), Exed II C T6 (switch only), Exedm IIC T4 (other versions)	WIRING DIAGRAM SINGLE SWITCH
Voltage:	Up to 240V	switch wiring diagram
Certified Temperature:	BGUL/PBUL: -13°F to +131°F (-25°C to + 55°C) PB (CSA): -58°F to +104°F (-50°C to +40°C)	SW1 SW2
Ingress Protection:	NEMA 4X & 6, IP66 & 67	
Terminals:	7 x 14 AWG standard	
Switch Rating (1 or 2 changeover switches fitted):	Max Rating 240VAC, 3A	123456
Cable Entries:	Up to 4 entries 1/2" NPT or 20mm	TERMINALS
Weight:	2.6 lb/1.2kg (varies with model & entries)	Basic double changeover
Material:	Glass reinforced polyester	switch wiring diagram
Finish:	Red epoxy painted finish as standard or to customer's specification	For versions containing
Resistors:	Various configurations available on versions up to 24V, 470R minimum	in-line and end-of-line
LED Indication:	A high intensity red LED can be fitted as an optional extra to indicate operation on versions up to 24V	resistors, please specify your requirements.
Labeling:	PB & BG duty label — worded to client's requirements (riveted on) PB & BG tag label — worded to client's requirements (screwed on)	

Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

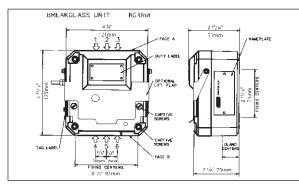
Model Certification PB	Entri	es Lab			tches	Features N	Terminals 7	Finish
Certification ATEX/CENELEC – EExe ATEX/CENELEC – EExi CSA – Exi (PBI only) UL – Class I, Div. 2	Code EB IB IC UL	Entries 1 Bottom M20 2 Bottom M20 1 Top, 1 Bottom M20 1 Bottom ¹ /2 [*] NPT 2 Bottom ¹ /2 [*] NPT 1 Top, 1 Bottom ¹ /2 [*] NPT 1 Top, 1 Bottom ¹ /2 [*] NPT 16 mm 20 mm ¹ /2 [*] NPT *Prefix entry size (see diagra with entry position code e.g UL & CSA Versions only ava ¹ /2 [*] NPT entries	. 1A, 2A.	Switches DC double change ove AC double change ove AC double	r AD		Finish Red (Standard) Natural Black Blue Yellow Gray	Code R N B Y G

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1S Fire Alarm or Emergency Call Points

Hazardous Locations Weatherproof Marine

MEDC Series



Field Installed Duty Labels

Use with BG Call Points:	Duty Label	Ordering Code
BG	Blank	869531
BG	Fire	869525
BG	Emergency Shut Down	869533
BG	Suppression Release	869535

Specification-BG Unit

Certification:	UL Listed — Hazardous locations: Class I, Div. 2, Groups A, B, C, D and Class I, Zone 2 UL Listing No. E186629 Ordinary locations: Fire Alarm Boxes. UL Listing No. S8117. CSA Certified to C22.2 (PB only), Nos. 0-M, 0.4M, 14-M, 25,30-M, 94, 142-M 1987, 157M 1987, 157–92, Enclosure Type 4, 4A, Class I, Groups A, B, C, D, Cert. No. 79120 ATEX Approved: -58°F to +104°F (-50°C to +40°C) Cert. No. BAS02ATEX2105X (BG & PB), Exed II C T6 (switch only), Exedm IIC T4 (other versions)	SW1 WIRING DIAGRAM SINGLE SWITCH
Voltage:	Up to 240V	- [1]2[3]4[5]6] TERMINALS
Certified Temperature:	BGUL/PBUL: -13°F to +131°F (-25°C to + 55°C) PB (CSA): -58°F to +104°F (-50°C to +40°C)	Basic single changeover switch wiring diagram
Ingress Protection:	NEMA 4X & 6, IP66 & 67	· [A-A]A-A]
Terminals:	7 x 14 AWG standard	. WIRING DIAGRAM
Switch Rating (1 or 2 changeover switches fitted):	Max Rating 240VAC, 3A	
Cable Entries:	Up to 4 entries 1/2" NPT or 20mm	
Weight:	2.6 lb/1.2kg (varies with model & entries)	
Material:	Glass reinforced polyester	Basic double changeover
Finish:	Red epoxy painted finish as standard or to customer's specification	switch wiring diagram
Resistors:	Various configurations available on versions up to 24V, 470R minimum	For versions containing in-line
LED Indication:	A high intensity red LED can be fitted as an optional extra to indicate operation on versions up to 24V	and end-of-line resistors, please specify your requirements.
Labeling:	BG glass label — reads either: (1) Fire break glass — press here (2) Break glass — press here (3) Worded to client's requirements PB & BG tag label — worded to client's requirements (screwed on) PB & BG duty label — worded to client's requirements (riveted on)	

Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

Model Certification	Entrie	:5	Labels S	wite	hes		Features	Terminals	Finish
BG			L	D	s		N	7	
Certification	Code	Entries	Code		I abels		Code	Finish	Code
ATEX/CENELEC EExe ATEX/CENELEC EExe ATEX/CENELEC – EExi CSA – Exi (PBI only) UL Class I, Div. 2	EB IB IC UL	1 Bottom M20 2 Bottom M20 1 lop, 1 Bottom ½* NPT 2 Bottom ½* NPT 1 lop, 1 Bottom ½* NPT 1 do mm 20 mm ½* NP1 *Prefix entry size (see dir with entry position code	5B 4B 6B 2B 5B 5C 4C 6C 2C 5C *A *B *C agram above)	D c A	Glass Label "Fire Break Glass Label "Break Glas "Break Glas witches C double hange over C single	Glass—P (2)	1 ress Here" 2	Red (Standard) Natural Black Blue Yellow Gray	R N B Y G
		UL & CSA Versions only 1/2" NPT entries	available with	A	hange over C double hange over	AD			



Heat Detectors

MEDC Series



Exd version (optional guard)

The MEDC heat detector has been designed for use in hazardous environments. These units are suitable for fire alarm and/or suppression systems in offshore and onshore applications including paint spray booths, flammable material stores, turbine rooms, extract ductwork and other hazardous areas throughout the oil & gas, petrochemical and process industries.

Comprising a Fenwal rate-compensated detector with all-stainless steel external construction, mounted to either a type SM87 marine grade alloy enclosure (Exd version) or JB10 corrosion-free GRP enclosure (Exia, Exem/UL versions). The contact in the detector CLOSES at alarm temperature.

To select appropriate temperature setting, see specification on reverse.

Applications:

- Compressor turbine/generator skids
- Switchgear or motor control status rooms
- Process tank areas or transmission lines

Typical Industries:

- Power generation
- Nuclear plants
- Chemical processing
- Upstream/downstream oil and gas



1S

Exia/Exem/UL versions (optional guard)

Certifications and Compliances:

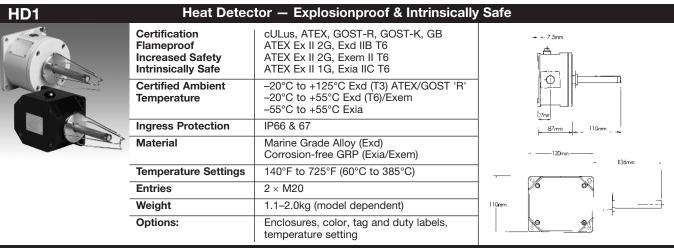
- Zone 0, Zone 1 and Zone 2
- Exia IIC T4/T6, Exd IIB T3/T6 or Exem II T6
- ATEX approved –Ex II 1G (Exia)
 - -Ex II 2G (Exd/Exem)
- BASEEFA certified
- UL listed for USA and Canada –Class I, Div. 2, Groups A, B, C, D
- GOST 'R' & 'K' certified
- Chinese (CQST) certified
- IP66 & IP67
- Certified temperature:
- -20°C to +125°C (Exd)*
- -20°C to +55°C (Exem/UL) -55°C to +55°C (Exia)
- Stainless steel probe
- Detector temperature settings: 60°C to 385°C, (140°F to 725°F)
- Marine grade Alloy or GRP enclosure
- Optional guard

*Model dependent.



1S Heat Detectors

MEDC Series



Compensated Heat Detector with Guard Fitted Natural Black Finish

To select appropriate temperature settings, choose detector at 56°C (100°F) above maximum ambient temperature.

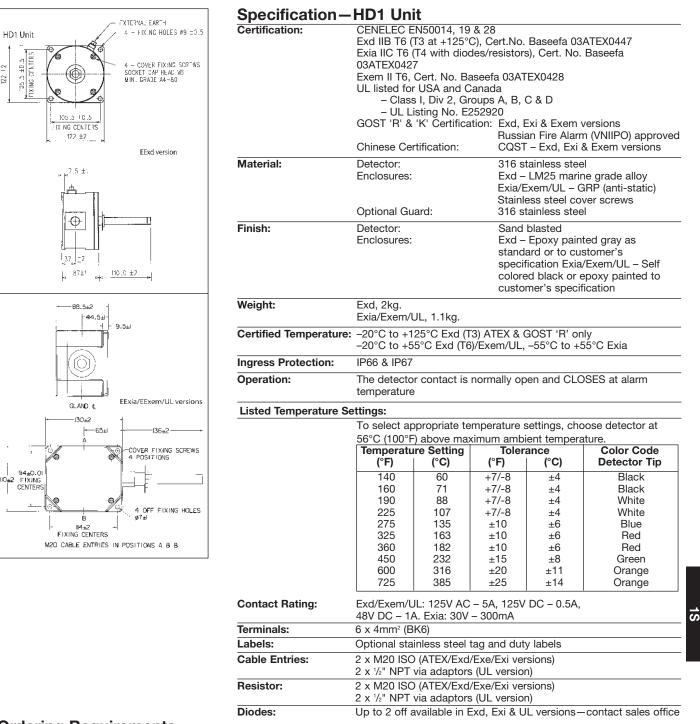
	Tolerance Color Cod			Tolerance Color Code			
Certification	(°F)	ting (°C)	(°F)	(°C)	Detector Tip	Ordering Code	Cat. #
	140	60	+7/-8	±4	Black	46500152	HD1ULE140GN
	160	71	+7/-8	±4	Black	46500153	HD1ULE160GN
	190	88	+7/-8	±4	White	46500154	HD1ULE190GN
UL, cUL, Class I, Div 2, Groups A, B, C, D	225	107	+7/-8	±4	White	46500155	HD1ULE225GN
Class I, Zone 2, IIC	275	135	±10	±6	Blue	46500156	HD1ULE275GN
	325	163	±10	±6	Red	46500157	HD1ULE325GN
	360	182	±10	±6	Red	46500158	HD1ULE360GN
	450	232	±15	±8	Green	46500159	HD1ULE450GN

Certification	Standard Product Configuration	Ordering Code	Cat. #
ATEX Exd	140°F detector, marine grade alloy enclosure, painted gray	465607	HD1BD140NG
ATEX Exd	160°F detector, marine grade alloy enclosure, painted gray	465602	HD1BD160NG
ATEX Exd	190°F detector, marine grade alloy enclosure, painted gray	465603	HD1BD190NG
ATEX Exd	225°F detector, marine grade alloy enclosure, painted gray	465614	HD1BD225NG
ATEX Exd	275°F detector, marine grade alloy enclosure, painted gray	465609	HD1BD275NG
ATEX Exd	325°F detector, marine grade alloy enclosure, painted gray	465605	HD1BD325NG
ATEX Exd	360°F detector, marine grade alloy enclosure, painted gray	46500043	HD1BD360NG
ATEX Exd	450°F detector, marine grade alloy enclosure, painted gray	465601	HD1BD450NG
ATEX Exd	600°F detector, marine grade alloy enclosure, painted gray	46500045	HD1BD600NG
ATEX Exd	725°F detector, marine grade alloy enclosure, painted gray	46500104	HD1BD725NG
ATEX Exem	140°F detector, GRP enclosure, natural black	46500026	HD1BE140NN
ATEX Exem	160°F detector, GRP enclosure, natural black	465301	HD1BE160NN
ATEX Exem	190°F detector, GRP enclosure, natural black	465305	HD1BE190NN
ATEX Exem	225°F detector, GRP enclosure, natural black	465304	HD1BE225NN
ATEX Exem	275°F detector, GRP enclosure, natural black	46500031	HD1BE275NN
ATEX Exem	325°F detector, GRP enclosure, natural black	465306	HD1BE325NN
ATEX Exem	360°F detector, GRP enclosure, natural black	46500072	HD1BE360NN
ATEX Exem	450°F detector, GRP enclosure, natural black	465303	HD1BE450NN



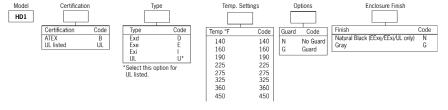


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Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.







Hazardous and Non-hazardous

Description	Page No.
Strobe Lights - MEDC Series	
SM87 HXB	see pages 1193-1194
XB4	see pages 1196-1198
XB11	see pages 1193-1195
XB12	see pages 1196-1199
XB13	see pages 1197-1200
XB15	see pages 1189-1191
XB16 UL	see pages 1190-1192
Strobe Lights - Hazard•Gard EX Series	
EXFASC	see page 1201
EXR	see pages 1205-1207
EXS, EXDS	see pages 1202-1204

2S Strobe Lights

Hazardous Locations Weatherproof

MEDC Series



XB16

These listed strobes have been designed for use in potentially explosive atmospheres and harsh environmental conditions. The enclosures are suitable for use offshore or onshore, where a lightweight product combined with corrosion resistance is required.

The housing is manufactured from a U.V. stable, glass reinforced polyester, with the lens manufactured from a U.V. stable polycarbonate. Stainless steel screws are used, ensuring a totally corrosion-free product.

The strobes contain supervisory diode and four wire leads for fire alarm applications. This strobe is also available UL 1971 (ADA) Listed for hearing impaired applications.

Units can be painted to customer specification and supplied with identification labels.

Applications:

- Condition signaling
- Security alert

SS

- Equipment obstruction warning
- Emergency evacuation signaling

Features and Benefits:

- Pipe mount with 1/2" NPT entry
- Corrosion resistant GRP enclosure
- XB16 580,000 peak candlepower XB15 520,000 peak candlepower
- · Polycarbonate lens, various colors available†
- · 4 wire diode monitored board
- Optional relay initiate
- Optional lens guard

+UL 1971 version available with clear lens only (XB16 only). *Conforms to UL regulated voltage.



XB15 Pipe Mount (with cast guard)

Certifications and Compliances:

- UL Listed for USA and Canada
 - Hazardous locations for USA and Canada Class I, Div. 2, Groups A, B, C, D* UL 1971 compliant version available
 - Ordinary locations: Visual Signal Device
- NEMA 4X and 6, IP66 & 67
- Certified temperature -67°F to +158°F -55°C to +70°C

Typical Industries:

- Utility gas plants
- Wastewater treatment plants
- Mining
- Petroleum refineries
- · Chemical and petrochemical
- · Pulp and paper



Strobe Lights

MEDC Series

XB15		15 Joule			-Hazardous & Ord	inary Locations
		Certification UL Listed for: Certified Ambient Temperature			EX /. 2, Groups A, B, C, D nes 1 & 2, AExd IIC T5/T6	;
					158°F 70°C	
	In In	gress Protect		/IA 4X 8 6 & 67	& 6	
	I	aterial	Corr	rosion-1	free GRP	
	Er	ntries			/2" NPT or 3 x 3/4" NPT	
		eight ptions: Body &		b/2.6-3 oltages	3.6kg s 12–48V DC, 110–254V A	C
Certification	Voltage	Lens Color	Ordering Co	ode	Cat. #	Standard Product Configuration
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Red	869400		XB15UL12006RWBNN	15 joules, direct mount w/backstrap , x ¾"
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Amber	869401		XB15UL12006AWBNN	NPT side entries, wire guard, 60 flashes per minute, natural black finish
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Red	869402		XB15UL12006RWPNN	15 joules, pipe mount , 1 x ³ / ₄ " NPT entry,
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Amber	869403		XB15UL12006AWPNN	wire guard, 60 flashes per minute, natural black finish
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	24V DC	Clear	27600042	2	XB15UL02406CWBNN	_
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	24V DC	Green	27600043	3	XB15UL02406GWBNN	15 joule beacon, 60 flashes per minute,
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	24V DC	Blue	869393		XB15UL02406BWBNN	- wire guard, backstrap , 2 x ³ / ₄ " NPT entries, natural black enclosure
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	24V DC	Red	869398	9398 XB15UL02406RWBNN		_
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	24V DC	Amber	869399		XB15UL02406AWBNN	
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	24V DC	Clear	27600047	7	XB15UL02406CWPNN	-
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	24V DC	Green	27600048	48 XB15UL02406GWPNN		15 joule beacon, 60 flashes per minute,
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	24V DC	Blue	869394		XB15UL02406BWPNN	wire guard, pipe mounting , 1 x ³ / ₄ " NPT entry, natural black enclosure
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	24V DC	Red	869396		XB15UL02406RWPNN	
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	24V DC	Amber	869397		XB15UL02406AWPNN	
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Clear	27600052	2	XB15UL12006CWBNN	15 joule beacon, 60 flashes per minute,
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Green	27600053	3	XB15UL12006GWBNN	wire guard, backstrap , 2 x ³ / ₄ " NPT entries, natural black enclosure
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Blue	869405		XB15UL12006BWBNN	
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Clear	27600057	7	XB15UL12006CWPNN	15 joule beacon, 60 flashes per minute,
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Green	27600058	3	XB15UL12006GWPNN	wire guard, pipe mounting, 1 x ³ / ₄ " NPT entry, natural black enclosure
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D 120V AC BI			869404		XB15UL12006BWPNN	

2S Strobe Lights

Hazardous Locations Weatherproof

MEDC Series

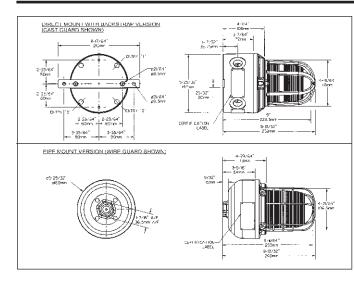
XB16 UL	.10 Jo	ulo Elash	ing Xepon_H	lazardous & Ordinary	Locations			
	Certification	cl	JLus, UL 1971 cor lass I, Div. 2, Grou	npliant				
	ertified Ambier		7°F to +158°F 5°C to +70°C					
	ngress Protecti	on N	EMA 4X & 6 66 & 67					
	laterial		orrosion-free GRP					
Star India	ntries	St	andard 1 x 1/2" NP	Т				
V	Veight	2.	2lb/1kg					
	ptions		ody & lens color, le bltages 12-48V DC		φ5-33/64" ≪∃— φl40mm — 등>			
Certification	Voltage	Lens Color	Ordering Code	Cat. #	Standard Product Configuration			
UL 1971 compliant	24V DC	Clear	29600023	XB16US02460CYNN	UL 1971 Listed for signaling devices for the hearing impaired. Suitable for fire alarm indication. 10 joule beacon, 60 flashes per minute, lens guard, pipe mounting, 1 x ³ / ₄ " NPT entry, natural black enclosure			
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Blue	869406	XB16UL12060BYNN				
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Red	869407	XB16UL12060RYNN	10 joules, 60 flashes per minute, 1 x ³ /4" NPT entry, 240 Cd, lens guard, natural black finish			
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Amber	869408	XB16UL12060AYNN	guard, natural block million			
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Clear	29600013	XB16UL12060CYNN				
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Green	29600014	XB16UL12060GYNN	10 joule beacon, 60 flashes per			
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Blue	29600011	XB16UL12060BYNN	minute, lens guard, pipe mounting, 1 x ³ / ₄ " NPT entry, natural black			
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Red	29600003	XB16UL12060RYNN	enclosure			
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	120V AC	Amber	29600004	XB16UL12060AYNN				
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	24V DC	Green	29600016	XB16UL02460GYNN				
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	24V DC	Blue	29600017	XB16UL02460BYNN	10 joule beacon, 60 flashes per minute, lens guard, pipe mounting,			
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	24V DC	Red	869410	XB16UL02460RYNN	1 x ³ / ₄ " NPT entry, natural black enclosure			
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	24V DC	Amber	869411	XB16UL02460AYNN				

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Strobe Lights

MEDC Series



Electrical Ratings:

	D	C	AC				
Voltage	24	48	110	120	230	240	254
Current (A) at 60 fpm	.78	.67	0.4	0.4	0.2	0.2	0.17
Current (A) at 80 fpm	.99	.73	0.4	0.4	0.2	0.2	0.17
Current (A) at 120 fpm	.99	.73	0.4	0.4	0.2	0.2	0.17
Effective Candlepower	330 (Effective candlepower is the intensity that would appear to an observer if the light was burning steadily)						
Peak Candlepower	520,000 (Peak candlepower is the maximum light intensity generated by a flashing light during its light pulse)						

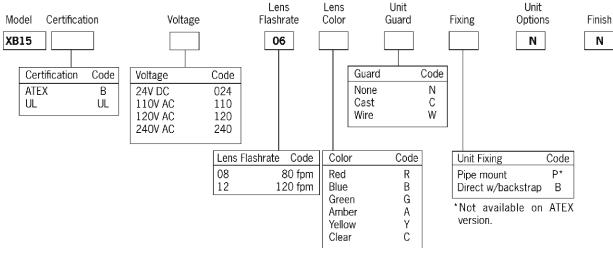
Multiplying Factor for Colored Lenses:

Red	Blue	Amber	Green	Yellow
0.15	0.12	0.51	0.49	0.86

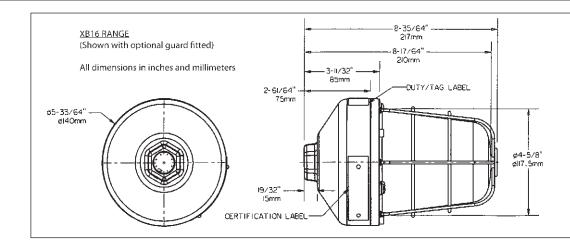
 Hazardous locations Class I, Div. 2, Groups A, B, C, D Class I, Zone 1, AExd IIC T5/T6 UL listing No. E187894 Ordinary locations: Visual Signal Device UL listing No. S8128 CENELEC/ATEX approved CENELEC EN50014 & EN50018 ATEX Cert. No. Baseefa 04ATEX0009X Material: Body: Glass reinforced polyester Lens: Glass Backstrap: stainless steel 316 Wire Guard (optional): stainless steel wire Cast Guard (optional): stainless steel wire Cast Guard (optional): aluminium LM25M Finish: Natural black or epoxy painted to customer specification Voltage: 24, 48V DC 110, 120, 230, 240, 254V AC Tube Life: >1 × 10° flashes Flash Rate: 60, 80, 120 fpm Certified -67°F to +131°F (-55°C to +55°C) T6 -67°F to +131°F (-55°C to +70°C) T5 Weight: Pipe mount: 5.75 lb/2.6kg; Direct mount: 6.5 Ingress Protection: NEMA 4X & 6, IP66 & IP67 Entries: Supplied as 2 × ¾" NPT (direct mount) or ¾" (pipe mount) as standard Other options available: Up to 3 × ½" NPT or 3 × ¾" NPT (direct mount) v" " (pipe mount) = contact sales office - Terminals: Direct mount: 12 x 14AWG Relay Initiate: Available on all units — suitable for 24V DC supplies only 	•	tion—XB15 Unit
CENELEC EN50014 & EN50018 ATEX Cert. No. Baseefa 04ATEX0009XMaterial:Body: Glass reinforced polyester Lens: Glass Backstrap: stainless steel 316 Wire Guard (optional): stainless steel wire Cast Guard (optional): aluminium LM25MFinish:Natural black or epoxy painted to customer specificationVoltage:24, 48V DC 110, 120, 230, 240, 254V ACTube Energy:15 joulesTube Life:>1 × 10° flashesFlash Rate:60, 80, 120 fpmCertified remperature:-67°F to +131°F (-55°C to +55°C) T6 Temperature:Pipe mount:5.75 lb/2.6kg; Direct mount: 6.5Ingress Protection:NEMA 4X & 6, IP66 & IP67Entries:Supplied as $2 \times \frac{3}{4}$ " NPT (direct mount) or $\frac{3}{4}$ " (pipe mount) as standard Other options available: Up to $3 \times \frac{1}{2}$ " NPT or $3 \times \frac{3}{4}$ " NPT (direct mount $\frac{1}{2}$ " NPT (pipe mount) - contact sales office for the pipe mount: $12 \times 14AWG$ Pipe mount: $8 \times 14AWG$ Relay Initiate:Available on all units — suitable for 24V DC supplies only	Certification:	Class I, Div. 2, Groups A, B, C, D Class I, Zone 1, AExd IIC T5/T6 UL listing No. E187894 – Ordinary locations: Visual Signal Device UL listing No. S8128
InitialDesignationLens: GlassBackstrap: stainless steel 316Wire Guard (optional): stainless steel wire Cast Guard (optional): aluminium LM25MFinish:Natural black or epoxy painted to customer specificationVoltage:24, 48V DC 110, 120, 230, 240, 254V ACTube Energy:15 joulesTube Life:>1 × 10° flashesFlash Rate:60, 80, 120 fpmCertified Temperature:-67°F to +131°F (-55°C to +55°C) T6 -67°F to +158°F (-55°C to +70°C) T5Weight:Pipe mount: 5.75 lb/2.6kg; Direct mount: 6.5Ingress Protection:NEMA 4X & 6, IP66 & IP67Entries:Supplied as $2 \times \frac{3}{4}$ " NPT (direct mount) or $\frac{3}{4}$ " (pipe mount) as standard Other options available: Up to $3 \times \frac{1}{2}$ " NPT or $3 \times \frac{3}{4}$ " NPT (direct mount $\frac{1}{2}$ " NPT (pipe mount) - contact sales officeTerminals:Direct mount: 12 x 14AWG Pipe mount: 8 x 14AWGRelay Initiate:Available on all units — suitable for 24V DC supplies only		
specificationVoltage:24, 48V DC 110, 120, 230, 240, 254V ACTube Energy:15 joulesTube Life:>1 × 10° flashesFlash Rate:60, 80, 120 fpmCertified $-67°F$ to $+131°F$ ($-55°C$ to $+55°C$) T6 Temperature: $-67°F$ to $+138°F$ ($-55°C$ to $+70°C$) T5Weight:Pipe mount: 5.75 lb/2.6kg; Direct mount: 6.5Ingress Protection:NEMA 4X & 6, IP66 & IP67Entries:Supplied as $2 \times 3/4"$ NPT (direct mount) or $3/4"$ (pipe mount) as standard Other options available: Up to $3 \times 1/2"$ NPT or $3 \times 3/4"$ NPT (direct mount $1/2"$ NPT (pipe mount) — contact sales officeTerminals:Direct mount: $12 \times 14AWG$ Pipe mount: $8 \times 14AWG$ Relay Initiate:Available on all units — suitable for 24V DC supplies only	Material:	Lens: Glass Backstrap: stainless steel 316 Wire Guard (optional): stainless steel wire
110, 120, 230, 240, 254V ACTube Energy:15 joulesTube Life:>1 × 10° flashesFlash Rate:60, 80, 120 fpmCertified $-67^{\circ}F$ to $+131^{\circ}F$ ($-55^{\circ}C$ to $+55^{\circ}C$) T6Temperature: $-67^{\circ}F$ to $+158^{\circ}F$ ($-55^{\circ}C$ to $+70^{\circ}C$) T5Weight:Pipe mount: 5.75 lb/2.6kg; Direct mount: 6.5 Ingress Protection:NEMA 4X & 6, IP66 & IP67Entries:Supplied as $2 \times \frac{3}{4}^{"}$ NPT (direct mount) or $\frac{3}{4}^{"}$ (pipe mount) as standard Other options available: Up to $3 \times \frac{1}{2}^{"}$ NPT or $3 \times \frac{3}{4}^{"}$ NPT (direct mount) $\frac{1}{2}^{"}$ NPT (pipe mount) — contact sales officeTerminals:Direct mount: $12 \times 14AWG$ Pipe mount: $8 \times 14AWG$ Relay Initiate:Available on all units — suitable for 24V DC supplies only	Finish:	
Tube Life:>1 × 10° flashesFlash Rate:60, 80, 120 fpmCertified $-67°F$ to $+131°F$ ($-55°C$ to $+55°C$) T6Temperature: $-67°F$ to $+158°F$ ($-55°C$ to $+70°C$) T5Weight:Pipe mount: 5.75 lb/2.6kg; Direct mount: 6.5Ingress Protection:NEMA 4X & 6, IP66 & IP67Entries:Supplied as $2 × ¾"$ NPT (direct mount) or ¾" (pipe mount) as standard Other options available: Up to $3 × ⅓"$ NPT or $3 × ¾"$ NPT (direct mount) $½"$ NPT (pipe mount) — contact sales officeTerminals:Direct mount: 12 x 14AWG Pipe mount: 8 x 14AWGRelay Initiate:Available on all units — suitable for 24V DC supplies only	/oltage:	
Flash Rate:60, 80, 120 fpmCertified $-67^{\circ}F$ to $+131^{\circ}F$ ($-55^{\circ}C$ to $+55^{\circ}C$) T6Temperature: $-67^{\circ}F$ to $+158^{\circ}F$ ($-55^{\circ}C$ to $+70^{\circ}C$) T5Weight:Pipe mount: 5.75 lb/2.6kg; Direct mount: 6.5Ingress Protection:NEMA 4X & 6, IP66 & IP67Entries:Supplied as $2 \times \frac{3}{4}$ " NPT (direct mount) or $\frac{3}{4}$ " (pipe mount) as standard Other options available: Up to $3 \times \frac{3}{4}$ " NPT or $3 \times \frac{3}{4}$ " NPT (direct mount $\frac{1}{2}$ " NPT (pipe mount) — contact sales officeTerminals:Direct mount: 12 x 14AWG Pipe mount: 8 x 14AWGRelay Initiate:Available on all units — suitable for 24V DC supplies only	Tube Energy:	15 joules
Certified $-67^{\circ}F$ to $+131^{\circ}F$ ($-55^{\circ}C$ to $+55^{\circ}C$) T6Temperature: $-67^{\circ}F$ to $+158^{\circ}F$ ($-55^{\circ}C$ to $+70^{\circ}C$) T5Weight:Pipe mount: 5.75 lb/2.6kg; Direct mount: 6.5 Ingress Protection:NEMA 4X & 6, IP66 & IP67Entries:Supplied as $2 \times \frac{3}{4}$ " NPT (direct mount) or $\frac{3}{4}$ " (pipe mount) as standard Other options available: Up to $3 \times \frac{1}{2}$ " NPT or $3 \times \frac{3}{4}$ " NPT (direct mount) $\frac{1}{2}$ " NPT (pipe mount) — contact sales office 1Terminals:Direct mount: $12 \times 14AWG$ Pipe mount: $8 \times 14AWG$ Relay Initiate:Available on all units — suitable for 24V DC supplies only	Tube Life:	>1 × 10 ⁶ flashes
Temperature: -67°F to +158°F (-55°C to +70°C) T5 Weight: Pipe mount: 5.75 lb/2.6kg; Direct mount: 6.5 Ingress NEMA 4X & 6, IP66 & IP67 Protection: NEMA 4X & 6, IP66 & IP67 Entries: Supplied as 2 × ¾" NPT (direct mount) or ¾" (pipe mount) as standard Other options available: Up to 3 × ½" NPT or 3 × ¾" NPT (direct mount)/½" NPT (pipe mount) – contact sales office Terminals: Direct mount: 12 x 14AWG Pipe mount: 8 x 14AWG Relay Initiate: Available on all units – suitable for 24V DC supplies only	Flash Rate:	60, 80, 120 fpm
Ingress Protection: NEMA 4X & 6, IP66 & IP67 Entries: Supplied as 2 × ¾" NPT (direct mount) or ¾" (pipe mount) as standard Other options available: Up to 3 × ½" NPT or 3 × ¾" NPT (direct mount/2" NPT (pipe mount) — contact sales office Terminals: Direct mount: 12 x 14AWG Pipe mount: 8 x 14AWG Relay Initiate: Available on all units — suitable for 24V DC supplies only		
Protection: NEMA 4X & 6, IP66 & IP67 Entries: Supplied as 2 × ¾" NPT (direct mount) or ¾" (pipe mount) as standard Other options available: Up to 3 × ½" NPT or 3 × ¾" NPT (direct moun ½" NPT (pipe mount) — contact sales office Terminals: Direct mount: 12 x 14AWG Pipe mount: 8 x 14AWG Relay Initiate: Available on all units — suitable for 24V DC supplies only	Weight:	Pipe mount: 5.75 lb/2.6kg; Direct mount: 6.5 lb/3.0kg
(pipe mount) as standard Other options available: Up to 3 × ½" NPT or 3 × ¾" NPT (direct mou ½" NPT (pipe mount) — contact sales office Terminals: Direct mount: 12 x 14AWG Pipe mount: 8 x 14AWG Relay Initiate: Available on all units — suitable for 24V DC supplies only		NEMA 4X & 6, IP66 & IP67
Pipe mount: 8 x 14AWG Relay Initiate: Available on all units — suitable for 24V DC supplies only	Entries:	(pipe mount) as standard
supplies only		Pipe mount: 8 x 14AWG
	Relay Initiate:	
Labels. I ag/Duty label option	abels:	Tag/Duty label option

Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.







Specification—XB16UL Unit

Certification:	UL Listed for USA and Canada: – Hazardous locations for USA and Canada Class I, Div. 2, Groups A, B, C, D UL listing No. E251185 – Ordinary locations: Visual Signal Device: UL1638 UL listing No. E251185 – Hazardous locations for hearing impaired: UL1971 UL listing No. E251185
Material:	Body: Glass reinforced polyester Lens: U.V. stable polycarbonate Lens screws: stainless steel 316
Finish:	Natural black or painted to customer specification
Voltage:	24, 48V DC 110, 120, 230, 240, 254V AC Conforms to UL regulated voltage output (12V DC, 24V DC, 120V AC, 240V AC)
Certified Temperature:	-67°F to +158°F (-55°C to +70°C)
Tube Energy:	10 joules
Tube Life:	$> 1 \times 10^6$ flashes
Weight:	2.2lb/1.0kg
Ingress Protection:	NEMA 4X & 6, IP66 & IP67
Entries:	Standard 1 × 1/2" NPT pipe mount
Terminals:	8 × 14AWG
Labels:	Tag/Duty label option

Electrical Ratings:

For Hazardous Locations and Ordinary Locations (UL1638) Units

	DC		AC				
Voltage	24	48	110	120	230	240	254
Current (A) at 60 fpm	0.89	0.30	0.38	0.38	0.22	0.22	0.18
Current (A) at 80 fpm	0.89	0.30	0.38	0.38	0.22	0.22	0.18
Current (A) at 120 fpm	0.89	0.30	0.38	0.38	0.22	0.22	0.18
Effective intensity (Cd): 240 at 80 f.p.m.							
, , ,	40 at 8	30 f.p.ı	n.				

Peak candlepower: 580,000 (Peak candlepower is the maximum light intensity generated by a flashing light during its light pulse)

For UL1971 Units Only

	D	С						
Voltage	24	48	110	120	230	240	254	
Current (A) at 60 fpm	1.22	1.52	0.38	0.38	0.78	0.78	0.18	
Current (A) at 80 fpm	1.22	1.52	0.38	0.38	0.78	0.78	0.18	
Current (A) at 120 fpm	1.22	1.52	0.38	0.38	0.78	0.78	0.18	
Effective intensity (Cd): 240 at 80 fpm.								
Peak candlepower: 580,000 (Peak candlepower is the maximum light intensity generated by a flashing light during its light pulse)								
On UL1971 units, max. current rating is based on in-rush current. This is why the current ratings are not propotional as with other beacons/strobes. UL 1971 On-axis output: 15 Cd.								
Note: 24V DC units are cerified fo	r use in r	egulated	24V DC	supplie	s (16–33	SV AC).		

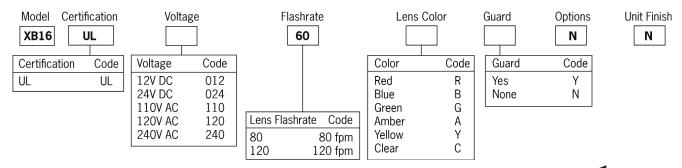
Note: 24V DC units are cerified for use in regulated 24V DC supplies (16–33V AC). 110/120V DC units are cerified for use on regulated 120V AC supplies (96–132V AC). 230/240V DC units are cerified for use on regulated 240V AC supplies (192–264V AC).

Multiplying factor for colored lenses:

Red	Blue	Amber	Green	Yellow	
0.15	0.12	0.51	0.49	0.86	

Ordering Requirements The following code is designed to help in the selection of the correct u

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.



www.crouse-hinds.com US: 1-866-764-5454 CAN: 1-800-265-0502 Copyright® 2011 Cooper Crouse-Hinds

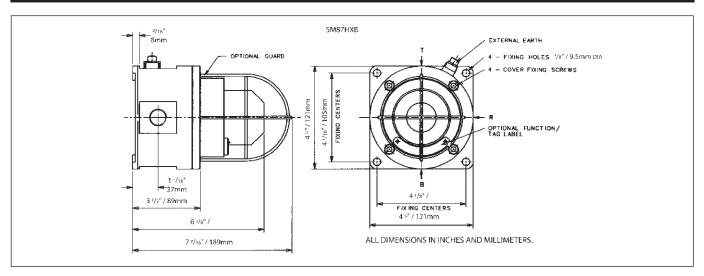


1192

SM87 HXB	5 Joule	Xenon S	trobe – Explo	osionproof	
	Certification UL Listed for:		cULus, CSA, AT Class I, Div. 1, 0 Class I, Zone 1		
	Certified Amb Temperature	ient	-67°F to +158°F -55°C to +70°C		
	Ingress Protec	ction	NEMA 4X & 6 IP66 & 67		7-7/16"
	Material		Alloy		
	Entries		Up to $2 \times \frac{1}{2}$ " or	³ / ₄ " NPT, M20, M25	/¶
	Weight		4.4lb/2.0kg app	rox.	
6	Options			or, certification, lens guard, / DC,110–254V AC	ø4-3/4" — ∞ øl2imm
Certification	Voltage	Lens Color	Ordering Code	Cat. #	Standard Product Configuration
ATEX EX II 2GD ATEX EX II 2GD	24V DC 24V DC	Red Amber	813005 813006	SM87HXBAB024RN1R1LNNR SM87HXBAB024AN1R1LNNR	5 joules, 2 × M20 Entries, 29Cd, Exd IIc
ATEX EX II 2GD ATEX EX II 2GD	240V AC 240V AC	Red Amber	813007 813008	SM87HXBAB240RN1R1LNNR SM87HXBAB240AN1R1LNNR	7 joules, 2 × M20 Entries, 39Cd, Exd IIc
ATEX EX II 2GD	24V DC	Red LED	813009	SM87LEDAB024RN1R1LNNR	192Cd, 2 × M20 Entries, Exd IIc
UL, cUL Listed, Class I, Div. 1, Groups C, D	24V DC	Red	869161	SM87HXBAUL024RN3R3LNNR	Standard models are in alloy, red body color, no tag or
UL, cUL Listed, Class I, Div. 1, Groups C, D	24V DC	Amber	869162	SM87HXBAUL024AN3R3LNNR	duty labels, 2 × ½" NPT entries, 29Cd, 60 flashes per minute
UL, cUL Listed, Class I, Div. 1, Groups C, D	110V AC	Red	869165	SM87HXBAUL110RN3R3LNNR	Standard models are in alloy, red body color, no tag or duty lobols 2 x 1/2" NPT
UL, cUL Listed, Class I, Div. 1, Groups C, D	110V AC	Amber	869166	SM87HXBAUL110AN3R3LNNR	duty labels, $2 \times \frac{1}{2}$ " NPT entries, 32Cd, AExd IIB, 60 flashes per minute

5 Joule Xenon Strobe-Hazardous Locations **XB11** Certification cULus, ATEX UL Listed for: Class I, Div. 2, Groups C, D ø6-9/16" / 167mm -----Class I, Zones 1 & 2, AExd IIB T5 A -67°F to +158°F **Certified Ambient** -55°C to +70°C Temperature Ingress Protection NEMA 4X & 6 IP66 & 67 7-3/4" Material Corrosion-free GRP 197mm Entries 2 × 1/2" NPT, 20mm \bigcirc Weight 2.6lb/1.2kg 0 Options Body & lens color, voltages 24V DC, 110-254V AC

Certification	Voltage	Body Color	Lens Color	Ordering Code	Cat. #	Standard Product Configuration
UL, cUL Listed, Class I, Div. 2, Groups C, D	24V DC	Red	Red	869171	XB11UL02406RNBNNNR	No tag or duty
UL, cUL Listed, Class I, Div. 2, Groups C, D	24V DC	Red	Amber	869172	XB11UL02406ANBNNNR	labels. $2 \times \frac{1}{2}$ " NPT
UL, cUL Listed, Class I, Div. 2, Groups C, D	24V DC	Natural Black	Clear	869173	XB11UL02406CNBNNNN	entries, 60 flashes
UL, cUL Listed, Class I, Div. 2, Groups C, D	24V DC	Red	Clear	869174	XB11UL02406CNBNNNR	per minute
UL, cUL Listed, Class I, Div. 2, Groups C, D	110V AC	Red	Red	869175	XB11UL11006RNBNNNR	perminute
ATEX EX II 2GD	24V DC	Natural Black	Red	811101	XB11B02406RNBNNNN	GRP, natural black
ATEX EX II 2GD	24V DC	Natural Black	Amber	811102	XB11B02406ANBNNNN	body, no tag or duty
ATEX EX II 2GD	24V DC	Natural Black	Red	811103	XB11B24006RNBNNNN	labels, backstrap mounting, $2 \times M20$
ATEX EX II 2GD	24V DC	Natural Black	Amber	811104	XB11B24006ANBNNNN	entries, 60 flashes per minute

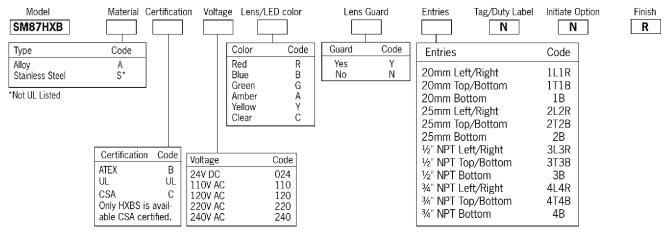


Specification-SM87HXB Unit

opeemed				U	C		AC 50/	OURZ	
Certification:	UL Listed for USA and Canada for Class I, Div. 1,	Voltage		24	48	110	120	240	254
	Groups C, D and Class I, Zone 1. Listing No. E187894. CSA Certification: to C22.2, Nos. 0, 0.4, 0.5, 9, 30-M 1986,		У	5	5	6	7	7	8
	94-M91, 137-M 1981, Class I, Div. 1, Group 0, Enclosure 3/4, Cert. No. 96406. ATEX approved:	Peak Current Consumption (mA)		320	170	250	275	135	150
	EN50014, EN50018, EN50019 Cert. No. Baseefa 03ATEX0222, Exd IIC T6	Power Consum (Watts)	ption	7.2	7.6	25	27	27	35
Material:	LM25 TF Marine Grade Alloy Lens: Toughened Glass	Effective Intensity (Co	d)	29	29	32	39	39	44
Finish:	Epoxy paint finish as standard or to customer's specification	Peak Candle P		22213	-	25061	30187	30187	34174
Weight:	5.5lb/2.5kg. approx.	The above figures (Cd)) are for a	a clear len	s @ 1Hz fl	ash rate.			
Certified	Standard unit SM87 HXB:	For Colored	Lens	es					
Temperature:	-67°F to +158°F, -55°C to +70°C High temperature unit:	Color	Red	d E	Blue	Amber	Greer	n Yell	ow
	-67°F to +185°F, -55°C to +85°C	Multiplying Factor	0.1	5 (0.12	0.51	0.49	0.8	86
Ingress Protection:	NEMA 4X & 6, IP66 & 67	The photo	ometric	c data h	as beer	n indepe	ndently	verified	
Terminals:	4 off suitable for up to 14AWG conductor size		A re	port is a	available	e if requ	red.		
Labels:	Duty & tag labels optional								
Entries:	Up to 4 off 1/2" or 3/4" NPT								

Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.





AC 50/60Hz

DC

SS

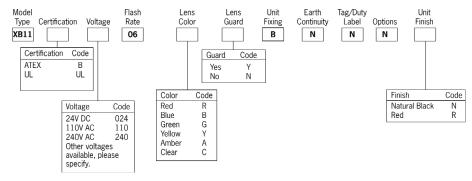
	38mm 9 0°F Førins HOLES 8mm 1°° 38mm 1°° 38mm 1°° 38mm 7 7/k° 6 1/n° Ø 51/a° 200mm 170mm 133mm 1°° 200mm 170mm 133mm 1°° 1°° 4LL DXMENSIONS IN INCHES AND MILLIMETERS	1 Unit			Υ		
Specification	–XB11 Unit				DC	AC 50)/60Hz
Certification:	UL Listed for USA and Canada	v	oltage		24	110	240
	 Hazardous locations: Class I, Div. 2, Groups C, D Class I, Zones 1 & 2, AExd IIB T5 UL Listing No. E187894 	Tub	XB11 e Energy oules)		5	5	5
	 Ordinary locations: Visual Signal Device UL Listing No. S8128 ATEX approved: 	Pea Con	320	100	60		
	Exd IIB T5/T6 Cert. No. 99 ATEX 2195X CENELEC EN50014 and EN50018		fective nsity (Cd)		29	29	29
Material:	Body: Glass reinforced polyester	Peak C	andle Powe	er	22213	22213	22213
matoriali	Lens: Glass	Power Cons	1 (,	8	11	18
	Cover Screws + Backstrap: Stainless steel 316	The Cd figures are for	a clear lens @	1Hz flash rate	9.		
Finish:	Natural black or painted to customer	For Colored I	enses				
	specification	Color	Red	Blue	Amber	Green	Yellow
Weight: Certified	5.5lb/2.5kg Standard unit SM87 HXB: -67°F to +158°F,	Multiplying Factor	0.15	0.12	0.51	0.49	0.86
Temperature:	–55°C to +70°C –67°F to +158°F, –55°C to +70°C High temperature unit: –67°F to +185°F, –55°C to +85°C	The pl	notometric A report		been verifie e if requiree	,	
Ingress Protection:	NEMA 4X & 6, IP66 & 67						
Terminals:	6 off suitable for up to 14 AWG conductor size						
Labels:	Duty/tag label optional						
Entries:	2 × 1/2" NPT, 20mm						
Strobe/Sounder Unit:	The beacon may be combined with an MEDC Sounder to create a visual/audible alarm. Contact MEDC for price and specification.						

2S

2S

Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.





Strobe Lights 2S

MEDC Series

XB4	21 Joule Xend Certification UL Listed for: Certified Ambient	cULus, Class I, Class I, –67°F t	ATEX Div. 1, Grou Zone 1, AEx o +158°F	os C, D	∞-ø8-5/8" / 2!9mm ->
	Temperature Ingress Protection	–55°C t NEMA			
	Material	Alloy			279mm
	Entries Weight	Up to 3		IPT, 20mm, 25mm	
- 0	Options			ens guard, certification, 0V AC & 240V AC	
Certification		.ens olor	Ordering Code	Cat. #	Standard Product Configuration
ATEX Approved Ex II 2G	24V DC	Red	814001	XB4BB8D2B3B06AN0B	N1B 21 joules, 2 × M20 entries.

Certification	Voltage	Color	Code	Cat. #	Configuration
ATEX Approved Ex II 2G	24V DC	Red	814001	XB4BB8D2B3B06AN0RN1R	21 joules, $2 \times M20$ entries,
ATEX Approved Ex II 2G	240V AC	Red	814002	XB4BH8D2B3B06AN0RN1R	355Cd, 60 flashes per minute, no labels, red finish
UL, cUL Listed, Class I, Div. 1, Groups C, D	24V DC	Red	869121	XB4ULB8D2E3E06ANRN1R	. Marine grade alloy, 2 × ¾"
UL, cUL Listed, Class I, Div. 1, Groups C, D	24V DC	Amber	869122	XB4ULB8D2E3E06ANAN1R	NPT entries, no lens guard, 60 flashes per minute,
UL, cUL Listed, Class I, Div. 1, Groups C, D	110V AC	Red	869125	XB4ULE8D2E3E06ANRN1R	red finish
UL, cUL Listed, Class I, Div. 1, Groups C, D	110V AC	Amber	869126	XB4ULE8D2E3E06ANAN1R	

21 Joule Xenon Strobe-Hazardous Locations

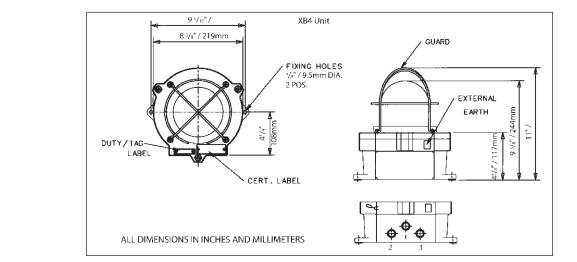
XB12	21 Joule Xe	enon Strobe – Hazardous Locations	
	Certification UL Listed for:	cULus, ATEX	—∞ ø9-9/16" / 243mm 🛥
		Class I, Div. 2, Groups C, D Class I, Zones 1 & 2, AExd IIB T4	
	Certified Ambient Temperature	−67°F to +158°F −55°C to +70°C	
	Ingress Protection	NEMA 4X & 6 IP66 & 67	
	Material	Corrosion-free GRP	297mm
	Entries	Up to $2 \times \frac{1}{2}$ " NPT, 20mm	
	Weight	15.5lb/7.0kg	
	Options	Body & lens color, lens guard, certification, voltages 24V DC, 110–254V AC	

Certification	Voltage	Lens Color	Ordering Code	Cat. #	Standard Product Configuration
ATEX Approved Ex II 2G	24V DC	Red	812101	XB12B02406RNBNNNN	
ATEX Approved Ex II 2G	24V DC	Amber	812102	XB12B02406ANBNNNN	21 joules, $2 \times M20$ entries,
ATEX Approved Ex II 2G	240V AC	Red	812103	XB12B24006RNBNNNN	355Cd, 60 flashes per minute, no labels, black body
ATEX Approved Ex II 2G	240V AC	Amber	812104	XB12B24006ANBNNNN	
UL, cUL Listed, Class I, Div. 2, Groups C, D	24V DC	Red	869181	XB12UL02406RNBNNNR	
UL, cUL Listed, Class I, Div. 2, Groups C, D	24V DC	Amber	869182	XB12UL02406ANBNNNR	Red painted GRP, no tag or duty labels, $2 \times \frac{1}{2}$ " NPT, 60
UL, cUL Listed, Class I, Div. 2, Groups C, D	110V AC	Red	869185	XB12UL11006RNBNNNR	flashes per minute, 355 Cd
UL, cUL Listed, Class I, Div. 2, Groups C, D	110V AC	Amber	869186	XB12UL11006ANBNNNR	



XB13	10 Joule Fla	shing Xenon—Weatherproof a	and Heavy Duty
	Certification UL Listed for:	Weatherproof IP66 & 67	
	Certified Ambient Temperature	−67°F to +158°F −55°C to +70°C	
	Ingress Protection	NEMA 4X & 6 IP66 & 67	212mm
	Material	Corrosion-free GRP	
	Entries	Up to 3×20 mm via knockouts	
	Weight	1.1kg	
	Options	Body & lens color, lens guard, voltages 12–24V DC, 115–230V AC	øl40mm≫
Certification		lering ode Cat. #	Standard Product Configuration

Certification	Voltage	Color	Code	Cat. #	Standard Product Configuration
Weatherproof, IP66 & 67	24V DC	Red	813101	XB13024RNNN	
Weatherproof, IP66 & 67	24V DC	Amber	813102	XB13024ANNN	Dust-tight and weatherproof, uncertified, no tag or duty labels, 3×20 mm entries via knockouts, 60 flashes per
Weatherproof, IP66 & 67	230V AC	Red	813103	XB13230RNNN	minute, dual and single flash modes, natural red GRP
Weatherproof, IP66 & 67	230V AC	Amber	813104	XB13230ANNN	



Specification—XB4 Unit

Certification:	UL Listed for USA and Canada – Hazardous locations: Class I, Div. 1, Groups C, D Class I, Zone 1, AExd IIB T4 UL Listing No. E187894 – Ordinary locations: Visual Signal Device UL Listing No. S8128 ATEX approved: Exd IIC T5 Cert. No. Baseefa 02ATEX0224X
Materials:	LM25TF Marine Grade Alloy body Grade 316 ANC4B Stainless Steel body Toughened Wellglass
Finish:	Red epoxy paint finish as standard or to customer's specification
Weight:	LM25: 14.5lb/6.6kg. Stainless Steel: Add 18.5lb/8.5kg.
Certified Temperature:	-67°F to +158°F -55°C to +70°C
Ingress Protection:	NEMA 4X & 6, IP66 & 67
Terminals:	8 off suitable for up to 8 AWG conductor size
Entries:	Up to $3 \times \frac{1}{2}$ " or $\frac{3}{4}$ " NPT, 20mm, 25mm

DC	AC 50/60Hz		
24	110	240	
21	21	21	
1400	350	185	
355	355	355	
123691	123691	123691	
	24 21 1400 355	24 110 21 21 1400 350 355 355	

es (Cd) are for a clear lens @ 1Hz fla

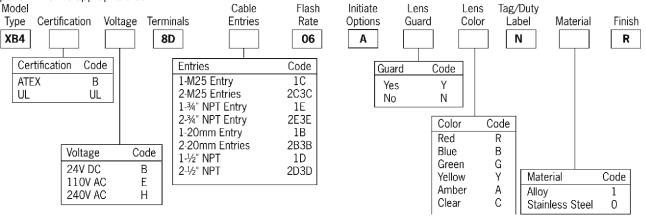
For Colored Lenses

Color	Red	Blue	Amber	Green	Yellow
Multiplying Factor (Approximate)	0.15	0.12	0.51	0.49	0.86

The photometric data has been independently verified. A report is available if required.

Ordering Requirements

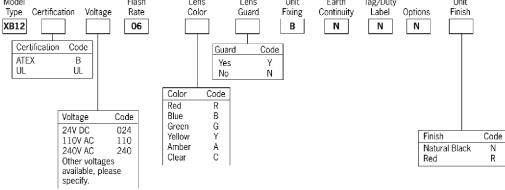
The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.



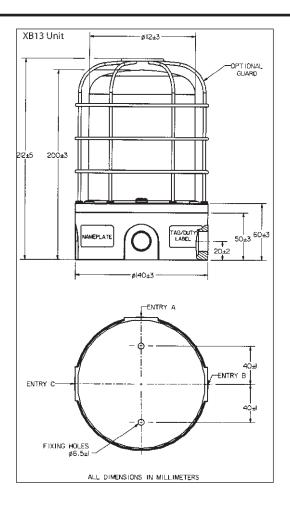


SS

	2 3/2" 2 3/2" XB12 60mm 60mm 60mm 60mm 60mm 60mm 60mm 60mm		13/16 ³ 30mr	16 ⁴ /243mm			
Specification -	XB12				DC	AC 50/	/60Hz
Certification:	UL Listed for USA and Canada	Voltage			24	110	240
	 Hazardous locations: Class I, Div. 2, Groups C, D Class I, Zone 1 & 2, AExd IIB T4/T5 UL Listing No. E187894 	XB12 Tube Energy (joules)			21	21	21
	– Ordinary locations: Visual Signal Device UL Listing No. S8128 ATEX approved:	Peak Current Consumption (mA)			1400	350	185
	Exd IIB T4/T5 Cert. No. 99 ATEX 2196	Effective Intensity (Cd)			355	355	355
Materials:	Body: Glass reinforced polyester Lens: Toughened Glass	Peak Intensity	(Cd)		123691	123691	123691
	Cover Screws + Backstrap: Stainless steel 316	Power Consun (Watts)	·		33.6	38.5	44.4
Finish:	Natural black or painted to customer specification	The Cd figures are for Colored			lash rate.		
Weight:	15.5 lb/7.0kg	Color	Red	Blue	Amber	Green	Yellow
Certified Temperature:	-67°F to +158°F (-55°C to +70°C) hazardous locations -67°F to +131°F (-55°C to +55°C)	Multiplying Factor The photometric	0.15 data has	0.12	0.51	0.49	0.86
	ordinary locations	if required.		been v			o available
Ingress Protection: Terminals:	NEMA 4X and 6, IP66 & 67						
	6 off suitable for up to 10 AWG conductor size						
Labels:	Duty/tag label optional						
Entries:	2 × 1/2" NPT, 20mm						
component into the app Model Type [XB12]	esigned to help in the selection of the correct un ropriate box. Certification Voltage Rate Color Guar Ufication Code Guard	s Unit Earth	Tag/Dı	ıty	Unit	ne code for e	each







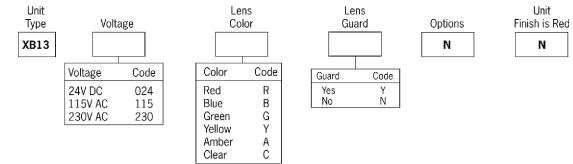
Specification-X	B13 Unit				
Materials:	UV stable glass reinforced polyester body UV stable polycarbonate cover/lens Retained stainless steel cover screws				
Finish:	Self colored red as standard o to customer's specification	r epoxy coated			
Tube Energy:	10 joules (second flash 7.5 joules)				
Weight:	1.1kg				
Operating Temperature:	–55°C to +70°C				
Ingress Protection:	IP66 & IP67				
Tube Life:	$>1 \times 10^6$ flashes				
Voltage:	12V DC, 24V DC, 115V AC, 230V AC				
Current Consumption:	Voltage 12V DC 24V DC 115V AC 230V AC	Current Consumption 1.4A 650mA 180mA 100mA			
Tube Type:	Xenon discharge				
Lens Color:	Various colors available				
Terminals:	8 x 2.5mm ²				
Flash Rate:	1 flash per second				
Dual Flash Rate:	Time between dual flashes = 0.5 seconds Charging time = 1 second Cycle repeats every 1.5 seconds				
Labels:	Duty and tag labels available				
Tube Type:	Up to $3 \times M20$ via knockouts				
Intensity:	Effective intensity 220 Cd. Pea 75,000 Cd. (Figures are for clear lens at 1	2			

For Colored Lenses

	11303				
Color	Red	Blue	Amber	Green	Yellow
Multiplying Factor	0.15	0.12	0.51	0.49	0.86

Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.





1200

SS

Fire Alarm Strobe Light HAZARD•GARD[®] Series

Cl. I, Div. 1, Groups C, D Cl. I, Zone 1 and 2, Group IIB Cl. II, Div. 1, Groups E, F, G Class III UL and cUL Listed NEMA 4X; IP66

The Hazard•Gard® EXFASC Series is a visual fire alarm signaling device for hazardous areas. The EXFASC Series strobes are UL 1971 Listed for indoor signaling applications for the hearing impaired in non-sleeping areas. They are also UL Listed for Type 3R, 4X installations. The strobes are available for pendant, wall and ceiling mounts.

The EXFASC Series Fire Alarm Explosionproof Strobe contains a supervisory diode for use in fire alarm applications. Under normal operation the diode is reversed biased, meaning it blocks voltage from being applied to the strobe light and prevents it from lighting. When a fire-initiating device such as a smoke alarm is activated, the diode's polarity is reversed through a fire alarm panel. The diode becomes forward biased, allowing voltage to the device and activating the strobe.

Applications:

· Visual fire alarm signaling device for hazardous areas

Typical Industries:

- Energy exploration
- Utilities
- Wastewater treatment plants
- Pulp and paper plants
- Petrochemical plants
- Petroleum refineries
- Oil rigs

Features and Benefits:

- Meets NFPA requirements for fire safety warning devices
- State of the art electronic design (full wave rectified design) Low current draw is efficient

24V DC regulated full wave rectified

Limited in-rush current favorable to other fire alarm system components

Proven, reliable circuitry designed specifically for use with fire alarm control panels

- · Available in pendant, wall and ceiling mount
- Strobe light produces 65 flashes per minute
- Factory sealed-no external seals required
- Quick connect—strobe fixture threads onto mounting module for easy installation
- Small compact size-ceiling mount is 13³/₄-inch long

Certifications and Compliances:

- Class I, Division 1, Groups C, D
- Class I, Zones 1 and 2, Group IIB
- Class II, Division 1, Groups E, F, G
- Class III
- UL 1638 and 1203 Listed
- UL 1971 Listed for indoor visual signaling for the hearing impaired in non-sleeping areas
- cUL Listed C22.2 No. 205
- NEMA 4X watertight, IP66

Materials & Finishes:

- Body, mounting modules and guard-Copper-free aluminum
- Globe—Heat and impact-resistant glass
- Gaskets-Silicone
- External hardware-Stainless steel
- Internal components—Solid-state electronics in a moistureresistant and heat-dissipating epoxy
- · Epoxy powder coated for corrosion resistance



Temperature Performance Data:

See page 1203

Ratings:

- 16-33V DC
- Operating Current: 1.08-0.83 amps
- Peak Candlepower: 800,000

Hub Size:

• 3/4-inch NPT pendant, ceiling and wall mount

Ordering Information:

Step 1 - Order Strobe Type

Catalog Number Voltage		Lens Color	NEMA Rating
FIRE ALARM RATE	D EXPLOSIONPRO	OF STROBE	
EXFASC301/16 33	24 VDC regulated full wave rectified	Clear	3R, 4X

Step 2 - Order Mounting Module

Catalog Number	Hub Size	Mounting Style
EVMP2	3/4"	Pendant
EV22 & EV87	3/4"	Wall
EV22	3/4"	Ceiling
EVMJ4	1 ¹ / ₄ "	Stanchion



Explosionproof Strobe Lights HAZARD•GARD[®] Series

Cl. I, Div. 1, Groups C, D Cl. I, Zone 1 and 2, Group IIB Cl. II, Div. 1, Groups E, F, G Class III

UL and cUL Listed NEMA 4X; IP66

The **Hazard**•**Gard EXS and EXDS Series** Explosionproof Strobe Lights are designed for installation indoors and outdoors in locations which are hazardous due to the presence of flammable vapors or gases, ignitible dusts or ignitible fibers and flyings. The units are UL Listed for Type 3R and 4X installations. The 120V and 24V DC models are Marine Rated. The strobes are available for pendant, wall, stanchion and ceiling mounts, and come in six different globe colors.

The **EXDS Series** is diode polarized for use in electrically supervised circuits. Electrically supervised circuits are typically used in life-safety or security applications.

Under normal operation the diode is reversed biased, meaning it blocks voltage from being applied to the strobe and prevents it from lighting. When an initiating device such as a smoke detector is activated, the diode's polarity is reversed through a circuit panel. The diode becomes forward biased, allowing voltage to the device and activating the strobe.

Applications:

- Condition signaling
- Equipment obstruction warning
- Security alert

2S

- Emergency evacuation signaling
- · In areas where audible signals cannot be heard

Typical Industries:

- Utility gas plants
- Petroleum refineries
- Wastewater treatment plants
- Chemical and petrochemical
- Mining
- Pulp and paper

Features and Benefits:

- Strong strobe signal that produces 65 flashes per minute
- Compact design will not obstruct in low ceiling or small areas, ceiling mount is only 13³/₄"-inch long
- Quick connect—strobe fixture threads onto mounting module for easy installation
- Factory sealed-no external seals required
- · Available in pendant, wall, stanchion and ceiling mount
- Available in six different globe colors-clear, red, blue, amber, green and magenta
- Silicone gasket seals out dirt and moisture

Certifications and Compliances:

- Class I, Division 1, Groups C, D
- Class I, Zones 1 and 2, Group IIB
- Class II, Division 1, Groups E, F, G
- Class III
- UL and cUL 1638, UL 1203 and UL 844 Listed
- 1598A Marine Listed (120V AC and 24V DC only)
- cUL Listed C22.2 No. 205
- NEMA 4X watertight, IP66



Materials and Finishes:

- Body, mounting modules and guard-Copper-free aluminum
- Globe-Heat and impact-resistant glass
- Gaskets-Silicone
- External hardware-Stainless steel
- Internal components—Solid-state electronics in a moistureresistant and heat-dissipating epoxy
- Epoxy powder coated for corrosion resistance

Ratings:

- 120V AC (EXS), 12–48V DC (EXSNM) and 24V DC nominal, voltage operating range is 16–33V DC (EXDS)
- Operating Current: 0.10 amps at 120V AC 1.2–3.8 amps at 12–48V DC 0.8 amps at 24V DC
- Peak Candlepower: 800,000

Hub Size:

- 3/4-inch NPT pendant, ceiling and wall mount
- 1¼-inch NPT stanchion mount



Explosionproof Strobe Lights HAZARD•GARD[®] Series

Cl. I, Div. 1, Groups C, D Cl. I, Zone 1 and 2, Group IIB Cl. II, Div. 1, Groups E, F, G Class III UL and cUL Listed NEMA 4X; IP66 **2S**

Ordering Information:

Step 1 - Order Strobe Type			Step 2 - Orde	er Mountir	ng Module	
Cat. #	Voltage	Lens Color	NEMA Rating	Cat. #	Hub Size	Mounting Style
Explosionproof Strobes				EVMP2	3/4"	Pendant
EXS301A/120	120V AC	Amber	3R 4X, Marine	EV22 and EV87 EV22	3/4" 3/4"	Wall Ceiling
EXS301B/120	120V AC	Blue	3R 4X, Marine	EVZZ EVMJ4	74 1 1/4"	Stanchion
EXS301C/120	120V AC	Clear	3R 4X, Marine			
EXS301G/120	120V AC	Green	3R 4X, Marine			
EXS301M/120	120V AC	Magenta	3R 4X, Marine			
EXS301R/120	120V AC	Red	3R 4X, Marine			
EXSNM301A/12 48	12–48V DC	Amber	3R 4X			
EXSNM301B/12 48	12–48V DC	Blue	3R 4X			
EXSNM301C/12 48	12–48V DC	Clear	3R 4X			
EXSNM301G/12 48	12–48V DC	Green	3R 4X			
EXSNM301M/12 48	12–48V DC	Magenta	3R 4X			
EXSNM301R/12 48	12–48V DC	Red	3R 4X			
Diode Polarized Explosion	proof Strobes					
EXDS301A/24	24V DC	Amber	3R 4X, Marine			
EXDS301B/24	24V DC	Blue	3R 4X, Marine			
EXDS301C/24	24V DC	Clear	3R 4X, Marine			
EXDS301G/24	24V DC	Green	3R 4X, Marine			
EXDS301M/24	24V DC	Magenta	3R 4X, Marine			
EXDS301R/24	24V DC	Red	3R 4X, Marine			

Temperature Performance Data:

	Ambient Max. Temp.	Supply Wire	Div. 1, 2, Groups C, D Class I, Zone 1, Group II B	Class II, Class III, Div. 1, Groups E, F, G	Class II, Class III, Div. 2, Groups F, G
EXFASC Series Fire Alarm Voltage 24V DC Regulated Full Wave Rectified (Operating Range 16–33V DC) (Marine Listed)	40°C	75°C	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T5 (100°C)	T4 (135°C)	T4 (135°C)
EXS Series Strobe Light Voltage 120V AC (Marine Listed)	40°C	75°C	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T6 (85°C)	T4 (135°C)	T4 (135°C)
EXSNM Series Strobe Light Voltage 12–48V DC (Not Marine Listed)	40°C	75°C	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T6 (85°C)	T4 (135°C)	T4 (135°C)
EXDS Series Strobe 40°C Light-Diode Polarized Voltage 24V DC (Marine Listed)	40°C	75°C	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T5 (100°C)	T4 (135°C)	T4 (135°C)

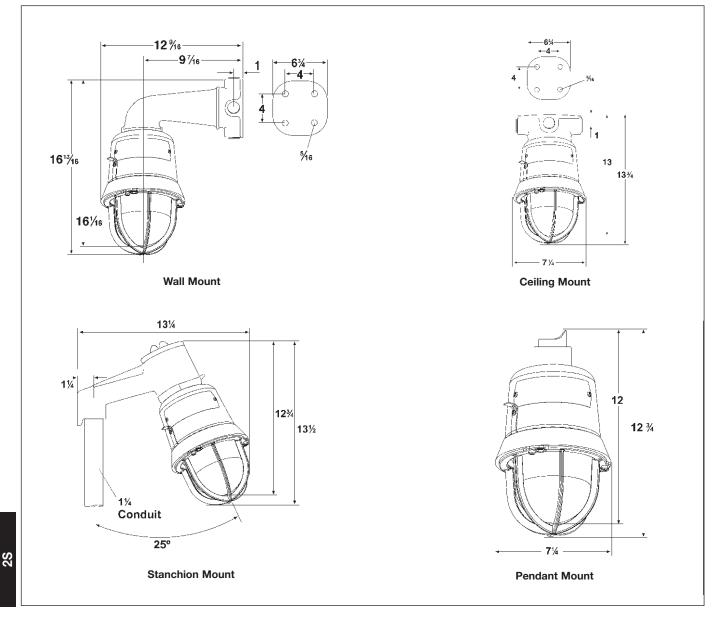
Class I,

Explosionproof Strobe Lights HAZARD•GARD[®] Series

Cl. I, Div. 1, Groups C, D Cl. I, Zone 1 and 2, Group IIB Cl. II, Div. 1, Groups E, F, G Class III UL and cUL Listed NEMA 4X; IP66

Dimensions In Inches:

2S



Net Luminaire Weights:

туре	IDS.
Luminaire Housing with Guard	11.0
Туре	lbs.
Add mounting modules:	
Pendant	1.0
Ceiling	1.0
Wall	4.5
Stanchion	2.5



Explosionproof Rotating Beacons HAZARD•GARD[®] Series

Cl. I, Div. 1, Groups C, D Cl. I, Zone 1 and 2, Group IIB NEMA 4X; IP66 Cl. II, Div. 1, Groups E, F, G Class III

UL and cUL Listed

2S

Cooper Crouse-Hinds Hazard+Gard EXR Series Explosionproof Rotating Beacons are designed for installation in hazardous locations, such as manufacturing plants, heavy industrial facilities, refineries, chemical, petrochemical, pharmaceutical and off-shore drilling platforms.

The units are UL Listed for Type 3R, 4X and marine installations. The rotating beacons are available for pendant, wall, stanchion and ceiling mounts, and come in six different globe colors.

The EXDR Series Explosionproof Rotating Beacon is diode polarized for use in standard 24-28V DC electrical circuits or in electrically supervised circuits. Electrically supervised circuits are typically used in life-safety or security applications.

Under normal operation in an electrically supervised circuit, the diode is reversed biased, meaning it blocks voltage from being applied to the rotating beacon and prevents it from lighting. When a warning detecting device is activated, the diode's polarity is reversed through a circuit panel. The diode becomes forward biased, allowing voltage to the device and activating the rotating beacon.

Applications:

- · Security alert
- · Equipment obstruction warning
- · Obstacle warning
- · Status indication of a process
- Areas under construction
- · Supplement audible signaling or off limits

Typical Industries:

- · Utility gas plants
- · Pharmaceutical plants
- Wastewater treatment plants
- Refineries
- · Chemical plants
- Mining

Features and Benefits:

- · Powerful halogen rotating beacon emits bright light to provide critical visual warning
- · Available in pendant, wall, stanchion and ceiling mount
- Available in six different globe colors-amber, blue, clear, green, magenta and red
- · Beacon produces 75 rotations per minute
- Factory sealed-no external seals required
- Quick connect-strobe fixture threads onto mounting module for easy installation

Certifications and Compliances:

- Class I, Division 1, Groups C, D
- · Class II, Division 1, Groups E, F, G
- Class I, Zones 1 & 2, Group IIB
- Class III
- UL and cUL 1638. UL 1203 and UL 844 Listed
- 1598A Marine Listed
- NEMA 4X watertight, IP66



Materials and Finishes:

- Body, mounting modules and guard—Copper-free aluminum
- Globe—Heat and impact-resistant glass
- Gaskets—Silicone
- External hardware—Stainless steel
- Internal components—Solid-state electronics in a moisture-resistant and heat-dissipating epoxy
- Epoxy powder coated for corrosion resistance

Ratings:

- 120V AC (EXR) and 24–28V DC (EXDR)
- Operating Current: 0.382 amps at 120V AC 0.8 amps at 24-28V DC
- Peak Candlepower: 3328 (EXR) 2838 (EXDR)

Hub Size:

- ¾-inch NPT pendant, ceiling and wall mount
- 1¹/₄-inch NPT stanchion mount

Explosionproof Rotating Beacons HAZARD•GARD[®] Series **2S**

Cl. I, Div. 1, Groups C, D Cl. I, Zone 1 and 2, Group IIB Cl. II, Div. 1, Groups E, F, G Class III

Ordering Information: Step 1 - Order Rotating Beacon Type

Step 1 - Order Rota	ating Beacon Ty	be		
Cat. #	Voltage	Lens Color	NEMA Rating	
Explosionproof Rotatin	ng Beacons			
EXR301A/120	120V AC	Amber	3R, 4X, Marine	
EXR301B/120	120V AC	Blue	3R, 4X, Marine	
EXR301C/120	120V AC	Clear	3R, 4X, Marine	
EXR301G/120	120V AC	Green	3R, 4X, Marine	
EXR301M/120	120V AC	Magenta	3R, 4X, Marine	
EXR301R/120	120V AC	Red	3R, 4X, Marine	
Diode Polarized Explo	sionproof Rotating E	Beacons		
EXDR301A/24 28	24–28V DC	Amber	3R, 4X, Marine	
EXDR301B/24 28	24–28V DC	Blue	3R, 4X, Marine	
EXDR301C/24 28	24–28V DC	Clear	3R, 4X, Marine	
EXDR301G/24 28	24–28V DC	Green	3R, 4X, Marine	
EXDR301M/24 28	24–28V DC	Magenta	3R, 4X, Marine	
EXDR301R/24 28	24–28V DC	Red	3R, 4X, Marine	

Step 2 - Order Mounting Module

Cat. #	Hub Size	Mounting Style
EVMP2	³ / ₄ "	Pendant
EV22 & EV87	3/4"	Wall
EV22	³ / ₄ "	Ceiling
EVMJ4	1 ¹ / ₄ "	Stanchion

Temperature Performance Data:

Description	Ambient Max. Temp.	Supply Wire	Class I, Div. 1, 2, Groups C, D Class I, Zone 1, Group IIB	Class II, Class III, Div. 1, Groups E, F, G	Class II, Class III, Div. 2, Groups F, G
EXR Series Rotating Beacon Voltage 120V AC	40°C	75°C	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T5 (100°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T5 (100°C)	T4 (135°C)	T4 (135°C)
EXR Series Rotating Beacon-Diode Polarized Voltage 24-28V DC	40°C	75°C	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T6 (85°C)	T4 (135°C)	T4 (135°C)

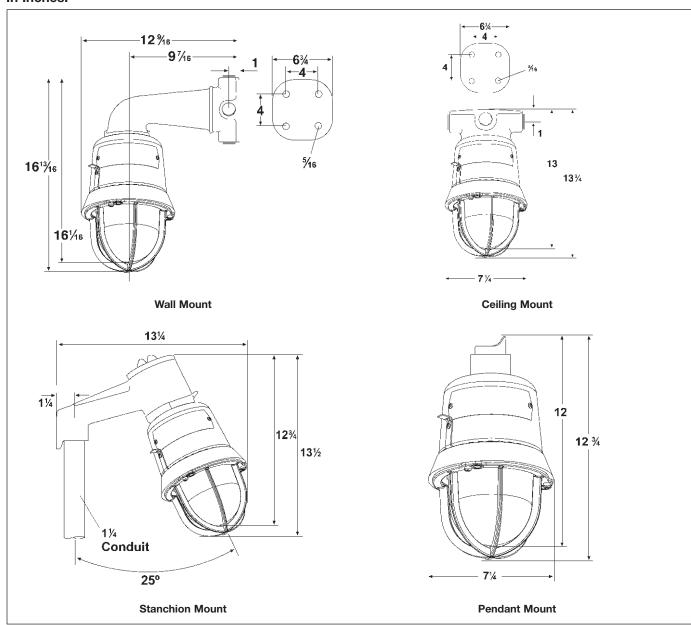
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Explosionproof Rotating Beacons HAZARD•GARD[®] Series

Cl. I, Div. 1, Groups C, D Cl. I, Zone 1 and 2, Group IIB Cl. II, Div. 1, Groups E, F, G Class III UL and cUL Listed NEMA 4X; IP66





Net Luminaire Weights:

Туре	lbs.
Luminaire Housing with Guard	11.0
Туре	lbs.
Add mounting modules:	
Pendant	1.0
Ceiling	1.0
Wall	4.5
Stanchion	2.5

2S

2S

COOPER Crouse-Hinds



Hazardous

Description	Page No.
Steady-On Beacons - MEDC Series	
FB4	see pages 1211-1212
FB11 UL	see pages 1213, 1215
FB12 UL	see pages 1213, 1215
FB15	see pages 1214, 1216
FL4	see pages 1211-1212
SM87 LU3	see pages 1217-1218
SM87 LU1	see pages 1217-1218
Steady-On Beacons - Hazard•Gard EX Series	
EXSO, EXDSO	see pages 1219-1221
Steady-On Beacons - Compact Fluorescent	
VF	see pages 1222-1223



Cl. I, Div. 1 (FB4 & FL4) Cl. I, Div. 2 (FB11, FB12 & FB15) Cl. I, Zone 1 NEMA 4X IP66 & IP67

MEDC Series



FB15 Direct Mount (with wire guard)

FB15 Pipe Mount (with cast guard)

The units are UL Listed for Type 3R, 4X and marine installations. The steady-on beacons are available for pendant, wall, stanchion and ceiling mounts, and come in six different globe colors.

Typical industrial and commercial applications include food processing plants, refineries, mines, tankers, laboratories, sewage treatment plants, off-shore oil rigs, water and filtration plants and chemical plants. The diode polarized steady-on beacon is used in electrically supervised circuitry for life-safety or security applications.

Applications:

- Safety lighting
- Continuous source to communicate
- Obstacle warning
- Exit or entrance lights
- For identifying the location of safety equipment such as showers or emergency telephones

Typical Industries:

Chemical plants

SS

- Storage handling
- Dust conveyor systems
- Energy exploration
- Textile mills
- Flour and feed mills

Certifications and Compliances:

- Class I, Division 1, Groups C, D
- Class I, Zone 1 & 2, Group IIB
- Class II, Division 1, Groups E, F, G
- Class III
- UL and cUL 1638, UL 1203 and UL 844 Listed
- 1598A Marine Listed
- NEMA 4X watertight, IP66



Cl. I, Div. 1 (FB4 & FL4) NEMA 4X Cl. I, Div. 2 (FB11, FB12 & FB15) IP66 & IP67 Cl. I, Zone 1

3S

MEDC Series

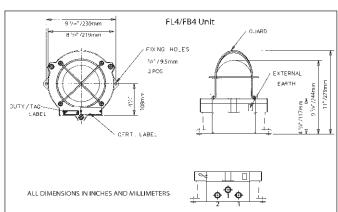
FB4	100 Watt Steady Incandescent Light - Explosionproof				
	Certification UL Listed for:	cULus, ATEX Class I, Div. 1, Groups C, D Class I, Zone 1, AExd IIB T4	≪-ø8-5/8" / 2i9mm⇒		
	Certified Ambient Temperature	–55°C to +55°C			
	Ingress Protection	NEMA 4X & 6 IP66 & 67 Alloy			
	Entries	Up to $3 \times \frac{1}{2}$ " or $2 \times \frac{3}{4}$ " NPT 13lb/6.4kg			
Weight Options:		Body & lens color, lens guard, certification, voltage 120V AC only			
Certification	Ordering Code Cat. #	<u> </u>	d Product Configuration		
UL, cUL Listed, Class I, Div. 2, Groups C, D	17800002 FB4EUL8U1N100		120V AC, 100W bulb (not included) d, no labels, gray finish		

FL4	13–	-39 Watt Steady Fluore	esce	nt Light—Explosionp	ro	of
		sted for:		TEX I, Div. 1, Groups C, D I, Zone 1, AExd IIC T5		æ-ø8-5/8" / 2l9mm -⇒
	Certifi			^E to +158°F C to +70°C		
	Ingres		NEM/	A 4X & 6 & 67		
	Mater	Material		у		
	Entrie	'S	Up to	$3 \times 1/2$ " NPT or $2 \times 3/4$ " NPT		
¥ @ 1	Weigh	ıt	14.5lk	o/6.6kg		
	Options: Body & lens color, lens guard, certification, voltages 24V DC, 120V, 240V AC					
Certification 0	Ordering Code	Cat. #		Standard Pr	od	uct Configuration
UL Listed, Class I, Div. 2, Groups C, D	27800006	FL4BUL8U2M3M13R1N1F	RZ			2 x ½" NPT entries, 13W tube (not d, red finish , one certified plug



Cl. I, Div. 1 (FB4 & FL4) Cl. I, Div. 2 (FB11, FB12 & FB15) Cl. I, Zone 1 NEMA 4X IP66 & IP67

MEDC Series



FL4 Lamp Details

Unit Type	Lamp Type	Lamp Ref.	Holder Type
FL4 DC	Osram Dulux D/E 13W	DD/E 13/XX	G24q-1
	Philips PLC 13W	PLC 13 P4	G24q-1
FL4 AC	Osram Dulux D 13W	DD 13	G24d-1
Osram Colo	Philips PLC 13W or XX = (21 = Cool white) (PLC 13	G24d-1 hite) (41 –
Interna)		or – wann wi	

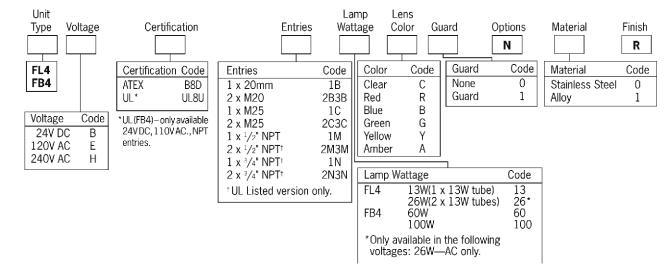
Temperature Ratings

Туре	Voltage/Wattage	Lamp Ref.	Max. Amb.
FL4	DC units	DD/E 13/XX	55°C
	AC units	PLC 13 P4	55°C
FB4	60W	DD 13	55°C
	100W	PLC 13	55°C

Specifica	tion—FL4 and FB4 Units
Certification:	UL Listed for USA and Canada - Hazardous locations: Class I, Div. 1, Groups C, D Class I, Zone 1, AExd IIB T4/T5 UL Listing No. E187894 - Ordinary locations: Visual-Signal Device (FL4 only). UL Listing No. S8128. ATEX approved: Exd IIC Certificate No. Baseefa 02ATEX0224X
Material:	LM25TF Marine Grade Alloy body Grade 316 ANC48 Stainless Steel body Toughened Wellglass
Models:	FL4: Up to 3 x 13 Watt PL compact fluorescent lamps FB4: 100 watt GLS incandescent lamps. E27 holder as standard
Finish:	Gray epoxy paint finish as standard or to customer's specification
Voltage:	FL4: 24V DC, 120V AC, 240V AC ± 10% 50/60hz. FB4: 120V AC ± 10% 50/60hz.
Weight:	FL4: 14–17lb/6.5–7.9kg (add 19lb/8.4kg for stainless steel) FB4: 13lb/6.4 kg
Certified Temperature:	FL4: -4°F to +131°F (-20°C to + 55°C) FB4: -67°F to +131°F (-55°C to + 55°C)
Ingress Protection:	NEMA 4X & 6 IP66 & IP67
Lamps:	Units are supplied without lamps
Terminals:	8 off suitable for up to 8 AWG conductor size
Entries:	Up to $3 \times \frac{1}{2}$ " NPT or $2 \times \frac{3}{4}$ " NPT

Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.





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Cl. I, Div. 1 (FB4 & FL4) Cl. I, Div. 2 (FB11, FB12 & FB15) Cl. I, Zone 1

NEMA 4X IP66 & IP67 **3S**

MEDC Series

FB11 UL	10 Wat	t Steady Incandes	scen	t Light—Hazardous Lo	ocations	
	Certifica			us, ATEX		
	UL Liste	ed for:	Clas	s I, Div. 2, Groups C, D		
Lab			Clas	s I, Zone 1, AExd IIB T4/T5	→ ø6-9/16" / 167mm →	
	Certifie	d Ambient	-67°	F to +131°F		
	Tempera	ature	-55°	C to +55°C		
	Ingress	Protection		IA 4X & 6		
	iligiess	FIOLECTION		& 67	7-3/4"	
		-			197mm	
	Materia		Corrosion-free GRP			
	Entries		Up t	o 2 × 1⁄2" NPT, M20		
C A S A S A S A	Weight		6.2lk	o/2.8kg		
				-		
	Options			y & lens color, lens guard, fication, voltage 24,		
				DC, 110–120V AC		
Contification	Oudening Code	Cat. #		Stondovd D		
Certification	Ordering Code	Cat. #			roduct Configuration	
ATEX	32500004	FB11B02410RNBNN	N	24V DC, 10W bulb, red lens		
				mounting bracket, natural t		
UL, cUL Listed, Class I,	32500028	FB11UL02410GNBN	NR	10W incandescent beacon		
Div. 2, Groups C, D	0200020	T D TTOEOZ TO GINDIN		no lens guard, $2 \times \frac{1}{2}$ NPT e	entries, painted red enclosure	
UL, cUL Listed, Class I,	0050000			10W incandescent beacon, 110V AC, green lens,		
Div. 2, Groups C, D	32500029	FB11UL11010GNBN	NR	no lens guard, $2 \times \frac{1}{2}$ NPT, painted red enclosure		
	I	1		I		
FB12 UL	60W/10	00W Steady Incan	desc	ent Light—Hazardous	S Locations	
	Certifica	ation	cUI	us. ATEX		
	UL Liste	al fam		US, ATEX		
		ed for:		us, ATEX is I, Div. 2, Groups C, D		
			Clas)	→ ø9-9/16" / 243mm →	
Hab	Certified	d Ambient	Clas Clas	s I, Div. 2, Groups C, D	→ ø9-9/16" / 243mm →	
	Certified Tempera	d Ambient	Clas Clas	s I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5	ø9-9/16" / 243mm	
	Tempera	d Ambient ature	Clas Clas –67° –55°	s I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F	∞ ø9-9/16" / 243mm ∞	
	Tempera	d Ambient	Clas Clas -67° -55° NEN	s I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C		
	Tempera	d Ambient ature Protection	Clas Clas -67° -55° NEN IP66	s I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C IA 4X & 6 s & 67	ø9-9/16" / 243mm	
	Tempera Ingress Materia	d Ambient ature Protection	Class Class -67° -55° NEN IP66 Corr	s I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C MA 4X & 6 5 & 67 rosion-free GRP		
	Tempera Ingress Materia Entries	d Ambient ature Protection	Class Class -67° -55° NEN IP66 Corr Up t	s I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C IA 4X & 6 s & 67 osion-free GRP o $2 \times 1/2^{"}$ NPT, M20		
	Tempera Ingress Materia	d Ambient ature Protection	Class Class -67° -55° NEN IP66 Corr Up t	s I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C MA 4X & 6 5 & 67 rosion-free GRP		
	Tempera Ingress Materia Entries	d Ambient ature Protection	Class Class -67° -55° NEN IP66 Corr Up t 2.6lt Bod	s I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C AA 4X & 6 b & 67 cosion-free GRP to $2 \times 1/2^{"}$ NPT, M20 b/1.2kg y & lens color, lens guard,		
	Tempera Ingress Materia Entries Weight	d Ambient ature Protection	Class Class -67° -55° NEN IP66 Corr Up t 2.6lt Bod	s I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C AA 4X & 6 5 & 67 rosion-free GRP o $2 \times 1/2^{"}$ NPT, M20 p/1.2kg		
Certification	Tempera Ingress Materia Entries Weight	d Ambient ature Protection	Class Class -67° -55° NEN IP66 Corr Up t 2.6lt Bod	s I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C A 4X & 6 5 & 67 cosion-free GRP o $2 \times \frac{1}{2^{u}}$ NPT, M20 b/1.2kg y & lens color, lens guard, fication, voltage 120V AC		
	Tempera Ingress Materia Entries Weight Options Ordering Code	d Ambient ature Protection	Class Class -67° -55° NEM IP66 Corr Up t 2.6II Bod certi	s I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C AA 4X & 6 5 & 67 o 2 \times 1/2" NPT, M20 b/1.2kg y & lens color, lens guard, fication, voltage 120V AC Standard Pr	oduct Configuration	
Certification UL, cUL Listed, Class I, Div. 2, Groups C, D	Tempera Ingress Materia Entries Weight Options	d Ambient ature Protection	Class Class Class -67° -55° NEM IP66 Corr Up t 2.6lt Bod certi	s I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C AA 4X & 6 5 & 67 o 2 \times 1/2" NPT, M20 b/1.2kg y & lens color, lens guard, fication, voltage 120V AC Standard Pr	UH-II/I6" 297mm €	
UL, cUL Listed, Class I, Div. 2, Groups C, D	Tempera Ingress Materia Entries Weight Options Ordering Code 326023	d Ambient ature Protection	Clas Clas Clas -67° -55° NEM IP66 Corr Up t 2.6lt Bod certi	is I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C A4 4X & 6 3 & 67 rosion-free GRP o 2 × $1/2^{"}$ NPT, M20 3/1.2kg y & lens color, lens guard, fication, voltage 120V AC Standard Pr 120V AC, 60W bulb, clear le natural black finish	oduct Configuration ns, mounting bracket, no labels,	
UL, cUL Listed, Class I, Div. 2, Groups C, D UL, cUL Listed, Class I,	Tempera Ingress Materia Entries Weight Options Ordering Code	d Ambient ature Protection	Class Class Class -67° -55° NEN IP66 Corr Up t 2.6lt Bod certi	is I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C A4 4X & 6 3 & 67 rosion-free GRP o 2 × $1/2^{"}$ NPT, M20 3/1.2kg y & lens color, lens guard, fication, voltage 120V AC Standard Pr 120V AC, 60W bulb, clear le natural black finish	oduct Configuration ns, mounting bracket, no labels, 120V AC, green lens, no lens guard,	
UL, cUL Listed, Class I, Div. 2, Groups C, D UL, cUL Listed, Class I, Div. 2, Groups C, D	Tempera Ingress Materia Entries Weight Options Ordering Code 326023	d Ambient ature Protection	Clas Clas Clas -67° -55° NEM IP66 Corr Up t 2.6lt Bod certi	s I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C IA 4X & 6 5 & 67 osion-free GRP o $2 \times 1/2^{"}$ NPT, M20 o/1.2kg y & lens color, lens guard, fication, voltage 120V AC Standard Pr 120V AC, 60W bulb, clear le natural black finish 60W incandescent beacon, $2 \times 1/2$ NPT entries in a paint	oduct Configuration ns, mounting bracket, no labels, 120V AC, green lens, no lens guard, ed red enclosure	
UL, cUL Listed, Class I, Div. 2, Groups C, D UL, cUL Listed, Class I, Div. 2, Groups C, D UL, cUL Listed, Class I,	Tempera Ingress Materia Entries Weight Options Ordering Code 326023	d Ambient ature Protection	Class Class Class -67° -55° NEM IP66 Corr Up t 2.6lt Bod certi INN	is I, Div. 2, Groups C, D is I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C IA 4X & 6 5 & 67 rosion-free GRP o $2 \times 1/2^{u}$ NPT, M20 b/1.2kg y & lens color, lens guard, fication, voltage 120V AC Standard Pr 120V AC, 60W bulb, clear le natural black finish 60W incandescent beacon, 2 $\times 1/2^{u}$ NPT entries in a paint 60W incandescent beacon, 2	oduct Configuration ns, mounting bracket, no labels, 120V AC, green lens, no lens guard, ed red enclosure 24V DC, green lens, no lens guard,	
UL, cUL Listed, Class I, Div. 2, Groups C, D UL, cUL Listed, Class I, Div. 2, Groups C, D UL, cUL Listed, Class I, Div. 2, Groups C, D	Tempera Ingress Materia Entries Weight Options Ordering Code 326023 32600035	d Ambient ature Protection e Cat. # FB12UL12060CNBN FB12UL12060GNBN	Class Class Class Class -67° -55° NEN IP66 Corr Up t 2.611 Bod certi INN INR	is I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C A4 4X & 6 5 & 67 rosion-free GRP o $2 \times 1/2^{"}$ NPT, M20 o/1.2kg y & lens color, lens guard, fication, voltage 120V AC Standard Pr 120V AC, 60W bulb, clear le natural black finish 60W incandescent beacon, 2 $2 \times 1/2$ NPT entries in a paint 60W incandescent beacon, 2 $2 \times 1/2$ NPT entries, painted r	oduct Configuration ns, mounting bracket, no labels, 120V AC, green lens, no lens guard, ed red enclosure 24V DC, green lens, no lens guard, ed enclosure	
UL, cUL Listed, Class I, Div. 2, Groups C, D UL, cUL Listed, Class I, Div. 2, Groups C, D UL, cUL Listed, Class I,	Tempera Ingress Materia Entries Weight Options Ordering Code 326023 32600035	d Ambient ature Protection e Cat. # FB12UL12060CNBN FB12UL12060GNBN	Class Class Class Class -55 NEM IP66 Corr Up t 2.6lt Bod certi INN INR	is I, Div. 2, Groups C, D s I, Zone 1, AExd IIB T4/T5 F to +131°F C to +55°C A4 4X & 6 5 & 67 rosion-free GRP o $2 \times 1/2^{"}$ NPT, M20 o/1.2kg y & lens color, lens guard, fication, voltage 120V AC Standard Pr 120V AC, 60W bulb, clear le natural black finish 60W incandescent beacon, 2 $2 \times 1/2$ NPT entries in a paint 60W incandescent beacon, 2 $2 \times 1/2$ NPT entries, painted r	oduct Configuration ns, mounting bracket, no labels, 120V AC, green lens, no lens guard, ed red enclosure 24V DC, green lens, no lens guard, ed enclosure 24V DC, green lens, no lens guard,	

Cl. I, Div. 1 (FB4 & FL4) Cl. I, Div. 2 (FB11, FB12 & FB15) Cl. I, Zone 1

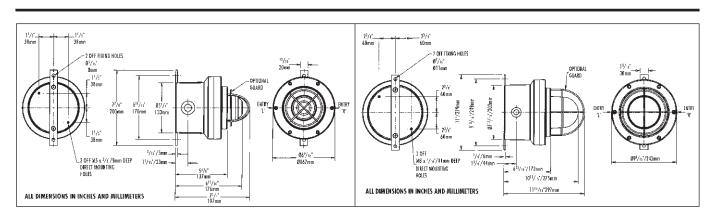
MEDC Series

FB15	100	100W Steady Incandescent Light—Hazardous & Ordinary Locations				
		rtification . Listed for:		Lus, ATEX ss I, Div. 2, pups A, B, C, D		
				ss I, Zone 1, ‹d IIC T3/T4		
		fied Ambient perature		°F to +158°F °C to +70°C		
	Ingre	ss Protection		MA 4X & 6 6 & 67		
	Mate	rial		rosion-free GRP	9-22/54" 245mm 245mm 246mm 1 € 246mm	
	Entri	es		to 3 x ½" Г or 3 x ¾" NPT		
	Weig			lb/2.6–3.6kg	25 79/32" *9— g.5Crm *9 db0ππis+	
	Optic	ons		dy & lens color, lens guard, p wattage, unit fixing,		
			mounting method, voltages 12–48V DC, 110–254V AC			
Certification	Ordering Code	Cat. #		Standard P	Product Configuration	
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	47600001	FB15UL120100G			en lens, mounting bracket, no labels, red finish	
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	47600020	FB15UL120100AN	NPNN	100W incandescent beacon, 120V AC, amber lens, no lens guard, pipe mounting, 1 x ³ / ₄ NPT entry, natural black enclosure		
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	47600021	FB15UL120100RM	NPNN	100W incandescent beacon, 120V AC, red lens, no lens guard, pipe mounting, 1 x ¾ NPT entry, natural black enclosure		
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	47600022	FB15UL120100G	NPNN	100W incandescent beacon, 120V AC, green lens, no lens guard, pipe mounting, 1 x ³ / ₄ NPT entry, natural black enclosure		
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	47600023	FB15UL120100CM	NPNN		n, 120V AC, clear lens, no lens guard, NPT entry, natural black enclosure	
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	47600024	FB15UL120100BN	NPNN		n, 120V AC, blue lens, no lens guard, NPT entry, natural black enclosure	
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	47600025	FB15UL024100AN	NPNN		n, 24V DC, amber lens, no lens guard, NPT entry, natural black enclosure	
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	47600026	FB15UL024100RM	NPNN	100W incandescent beacon, 24V DC, red lens, no lens guard, pipe mounting, 1 x ^{3/} / ₄ NPT entry, natural black enclosure		
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	47600027	FB15UL024100G	NPNN	100W incandescent beaco pipe mounting, 1 x ³ / ₄ N	n, 24V DC, green lens, no lens guard, NPT entry, natural black enclosure	
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	47600028	FB15UL024100CM	NPNN		on, 24V DC, clear lens, no lens guard, NPT entry, natural black enclosure	
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	47600029	FB15UL024100BN			on, 24V DC, blue lens, no lens guard, NPT entry, natural black enclosure	



Cl. I, Div. 1 (FB4 & FL4) Cl. I, Div. 2 (FB11, FB12 & FB15) Cl. I, Zone 1 NEMA 4X IP66 & IP67

MEDC Series

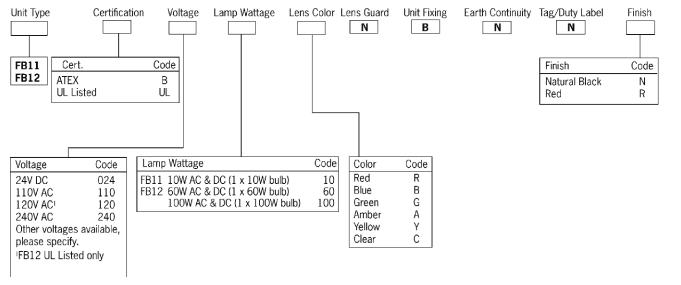


Specification-FB11 and FB12 Units

Models:	bdels: FB11 & FB12-Incandescent		Natural black or painted to customer specification		
Certification:	UL Listed for USA and Canada	Ingress Protection: NEMA 4X & 6, IP66 & IP67			
- Class I, Div. 2, Groups C, D - Class I, Zone 1, AExd IIB T4/T5 UL listing No. E187894 ATEX approved: CENELEC EN50014 and EN50018 FB11: Cert. No. 99 ATEX 2195X FB12: Cert. No. 99 ATEX 2196 Voltage: FB11: 24, 48V DC 110, 220, 240, 250V AC FB12: 120V AC	Terminals:	FB11: 6 x 14 AWG FB12: 6 x 10 AWG			
	Labels:	Duty/Tag Label optional			
	Entries:	2 x ½" NPT			
	Certified	FB11: -67°F to +131°F (-55°C to +55°C) T4			
	- Temperature:	–67°F to +104°F (−55°C to +40°C) T5. FB12: −67°F to +131°F (−55°C to +55°C) T4 −67°F to +104°F (−55°C to +40°C) T5.			
Incandescent:	FB11: 10W incandescent fitted as standard FB12: 60W or 100W incandescent fitted as standard	- Weight:	FB11: 6.2lb / 2.8kg. FB12: 16.7lb / 7.6kg.		
Material:	Body: Glass reinforced polyester Lens: Glass Cover screws + backstrap: stainless steel 316	-			

Ordering Requirements

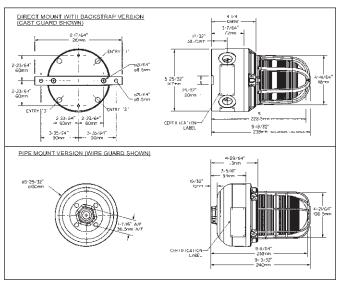
The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.



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Cl. I, Div. 1 (FB4 & FL4) Cl. I, Div. 2 (FB11, FB12 & FB15) Cl. I, Zone 1 NEMA 4X IP66 & IP67

MEDC Series



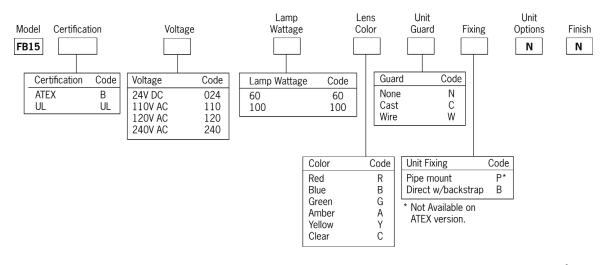
Electrical Ratings:

	DC		AC				
Voltage	24	48	110	120	230	240	254
Current (A) - 60W lamp	2.5	.67	0.55	0.50	0.26	0.25	0.24
Current (A) -100W lamp	4.2	.73	0.91	0.83	0.43	0.42	0.39

Specifica	tion—FB15 Unit
Certification:	UL Listed for USA and Canada: - Hazardous locations Class I, Div. 2, Groups A, B, C, D Class I, Zone 1, AExd IIC T3/T4 UL listing No. E187894 - Ordinary locations: Visual Signal Device UL listing No. S8128 CENELEC/ATEX approved CENELEC/ATEX approved CENELEC EN50014 & EN50018 ATEX Cert. No. Baseefa 04ATEX0009X
Material:	Body: Glass reinforced polyester Lens: Glass Backstrap: Stainless steel 316 Wire Guard (optional): Stainless steel wire Cast Guard (optional): Aluminium LM25M
Finish:	Natural black or epoxy painted to customer specification
Voltage:	24, 48V DC 110, 120, 230, 240, 254V AC
Lamp Type:	60W or 100W GLS incandescent
Lamp Holder:	E27 as standard
Certified Temperature:	60W: -67°F to +131°F (-55°C to +55°C) T4 -67°F to +158°F (-55°C to +70°C) T3 100W: -67°F to +104°F (-55°C to +40°C) T4
Weight:	Pipe mount: 5.75lb/2.6kg; Direct mount: 6.5lb/3.0kg
Ingress Protection:	NEMA 4X & 6, IP66 & IP67
Entries:	Supplied as 2 x M20, up to 3 x M20 or 3 x M25 Supplied as 2 x ½" NPT (direct mount) or ¾" (pipe mount) as standard Other options available: Up to 3 x ½" NPT or 3 x ¾" NPT (direct mount); ½" NPT (pipe mount)—contact sales office to order
Terminals:	Direct mount: 12 x 14AWG Pipe mount: 8 x 14AWG
Labels:	Tag/duty label option

Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box. Standard products available for immediate shipping - contact sales office for details.





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Cl. I, Div. 1 (FB4 & FL4) Cl. I, Div. 2 (FB11, FB12 & FB15) Cl. I, Zone 1

NEMA 4X IP66 & IP67 **3S**

MEDC Series

SM87 LU3	10) Watt Steady In	candes	cent Light-Explosion	proof	
	Certificatio UL Listed f		cULus, CSA, ATEX Class I, Div. 1, Groups C, D Class I, Zone 1, AExd IIB		4	
	Certified Ar	Certified Ambient Temperature Ingress Protection		+131°F +55°C		
*	Ingress Pro			(& 6 7	7-7/16"	
	Material Entries Weight		Alloy			
ET.			2 x 1/2" or	³ / ₄ " NPT, 20mm, 25mm		
			4.4lb/2.0	kg	du	
and the second s	Options	Options		ens color, lens guard, on, voltages 12–48V DC, 4V AC	gi2imm 7	
Certification	Ordering Code	Cat. #		Standard Pro	duct Configuration	
UL, cUL Listed, Class I, Div. 2, Groups C, D	762311	SM87LU3AUL024R	N3R3LNR	24V DC, red lens, 2 x $\frac{1}{2}$ "	NPT entries, no labels, red finish	
ATEX	46200122	SM87LU3AB024GN1T1BN		Exd, IIC, T4/T6 incandescent beacon, 24V DC, green lens no lens guard, 2 x M20 cable entries, painted red enclosur		
UL, cUL Listed, Class I, Div. 1, Groups C, D	46200096	SM87LU3AUL024GI	N3T3BNR		ncandescent bulb, marine grade , red finish	

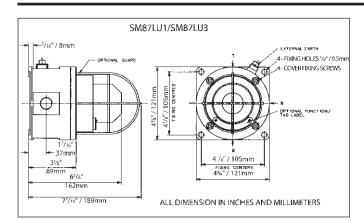
SM87 LU1	1(10 Watt Steady Fluorescent Light-Explosionproof					
	Certification UL Listed fo		cULus, ATEX Class I, Div. 1, Groups C, D Class I, Zone 1, AExd IIB				
	Certified Am	bient Temperature	–67°F to + –55°C to +				
	Ingress Prot	Ingress Protection		& 6	7-7/16" I89mm		
and the second s	Material		Alloy				
(A)	Entries		2 x ¹ / ₂ " or ³ / ₄ " NPT, 20mm, 25mm				
63. 7/	Weight		4.4lb/2.0kg				
	Options	Options		ns color, lens guard, n, voltages 12–48V DC, V AC	∞ Ø4-3/4" — ► øl2imm		
Certification	Ordering Code	Cat. #		Standard Pro	oduct Configuration		
UL, cUL Listed, Class I, Div. 2, Groups C, D	46200054	SM87LU1AUL024R	N4T4BNR		ns, 2 x ¾" NPT entries, els, red finish		
UL, cUL Listed, Class I, Div. 1, Groups C, D	46200052	SM87LU1AUL024GN4T4		24V DC, green lens, 10W fluorescent bulb, marine grade alloy, red finish			
ATEX	46200121	SM87LU1AB024G	N1T1BNR		ent beacon, 24V DC, green lens, ble entries, painted red enclosure		

COOPER Crouse-Hinds	

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MEDC Series

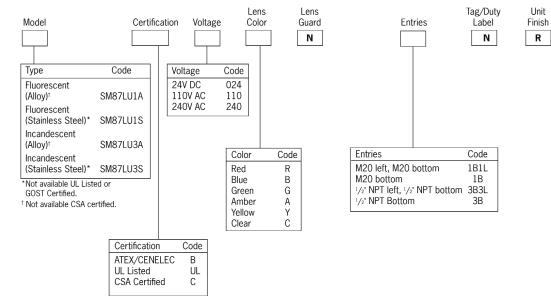
Cl. I, Div. 1 (FB4 & FL4) Cl. I, Div. 2 (FB11, FB12 & FB15) Cl. I, Zone 1 NEMA 4X IP66 & IP67



Models:	sion-SM87LU1/SM87LU3 Units
Models:	SM87 LU1: Fluorescent SM87 LU3: Incandescent
Certification:	UL Listed for USA and Canada: Class I, Div. 1, Groups C, D and Class I, Zone 1. Listing No: E187894. CSA Certified for Class I, Div. 1 & 2, Group D Certificate No. 96406 ATEX approved: Exd IIC T3-T6 (model dependent) Certificate No. 03ATEX0222X
Ingress Protection:	NEMA 4X and 6 IP66 & IP67
Material:	Marine Grade Aluminium Alloy LM25TF with glass lens
Finish:	Epoxy paint finish as standard or to customer's specification
Fluorescent:	10 Watt tube light output 600 Lumens (240V & 254V AC versions) 5 Watt tube max. light output 250 Lumens (DC versions)
Incandescent:	Single incandescent fitted as standard 10 watts. Others may be available, please contact MEDC with your requirements
Weight:	4.4lb/2.0kg approx.
Certified Temperature:	SM87LU1/3 –67°F to +131°F –55°C to +55°C
Voltage:	12, 24, 48V DC, 110V (LU3 only), 220V, 240V, 254V AC 50Hz as standard. 60Hz available if required
Terminals:	SM87: 4 off for up to 14 AWG cable
Entries:	SM87LU1& 3: 2 x 1/2" or 3/4" NPT, 20mm, 25mm

Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.



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HAZARD•GARD®

Steady-On Beacons

Cooper Crouse-Hinds Hazard•Gard **EXSO and EXDSO (Diode Polarized) Series Explosionproof Steady-On Beacons** are designed for installation in hazardous locations where a visual signal is required for tough environmental conditions involving corrosives, water, dust and extreme temperature.

The units are UL Listed for Type 3R, 4X and marine installations. The steady-on beacons are available for pendant, wall, stanchion and ceiling mounts, and come in six different globe colors.

Typical industrial and commercial applications include food processing plants, refineries, mines, tankers, laboratories, sewage treatment plants, off-shore oil rigs, water and filtration plants and chemical plants.

The diode polarized steady-on beacon is used in electrically supervised circuitry for life-safety or security applications.

Applications:

- · Safety lighting
- Exit or entrance lights
- Obstacle warning
- Continuous source to communicate
- For identifying the location of safety equipment such as showers or emergency telephones

Typical Industries:

- Chemical plants
- Storage handling
- Dust conveyor systems
- Energy exploration
- Textile mills
- Flour and feed mills

Features and Benefits:

- Powerful halogen light source for clear visual indication
- Available in six different globe colors-amber, blue, clear, green, magenta and red
- Factory sealed—no external seals required
- Quick connect—Steady-on beacon fixture threads onto mounting module for easy installation
- Small compact size—ceiling mount is 13³/₄-inch long
- Available in pendant, wall, stanchion and ceiling mount



Certifications and Compliances:

- Class I, Division 1, Groups C, D
- Class I, Zones 1 & 2, Group IIB
- Class II, Division 1, Groups E, F, G
- Class III
- UL and cUL 1638, UL 1203 and UL 844 Listed
- 1598A Marine Listed (120V AC and 24V DC only)
- cUL Listed C22.2 No. 205
- NEMA 4X watertight, IP66

Materials and Finishes:

- Body, mounting modules and guard-Copper-free aluminum
- Globe-Heat and impact-resistant glass
- Gaskets-Silicone
- External hardware-Stainless steel
- Internal components—Solid-state electronics in a moistureresistant and heat-dissipating epoxy
- Epoxy powder coated for corrosion resistance

Ratings:

- 120V AC (EXR) and 24–28V DC (EXDR)
- Operating Current: 0.35 amps at 120V AC (EXSO); 0.8 amps at 24–28V DC (EXDSO, diode polarized)
- Peak Candlepower: 3328

Hub Size:

- 3/4-inch NPT pendant, ceiling and wall mount
- 1¹/₄-inch NPT stanchion mount



3S HAZARD•GARD®

Steady-On Beacons

Ordering Information: Step 1 - Order Rotating Beacon Type

Step 1 - Order R	Step 2 - Or	rder Mou	Inting Module			
Cat. #	Voltage	Lens Color	NEMA Rating	Cat. #	Hub Size	Mounting Style
Explosionproof Stea	dy-On Beacons			EVMP2	³ / ₄ "	Pendant
EXSO301A/120	120V AC	Amber	3R, 4X, Marine	EV22 & EV87	³ / ₄ "	Wall
EXSO301B/120	120V AC	Blue	3R, 4X, Marine	EV22	³ / ₄ "	Ceiling
EXSO301C/120	120V AC	Clear	3R, 4X, Marine	EVMJ4	1 ¹ / ₄ "	Stanchion
EXSO301G/120	120V AC	Green	3R, 4X, Marine			
EXSO301M/120	120V AC	Magenta	3R, 4X, Marine			
EXSO301R/120	120V AC	Red	3R, 4X, Marine			
Diode Polarized Exp	losionproof Stead	ly-On Beacons				
EXDSO301A/24 28	24–28V DC	Amber	3R, 4X, Marine			
EXDSO301B/24 28	24–28V DC	Blue	3R, 4X, Marine			
EXDSO301C/24 28	24–28V DC	Clear	3R, 4X, Marine			
EXDSO301G/24 28	24–28V DC	Green	3R, 4X, Marine			
EXDSO301M/24 28	24–28V DC	Magenta	3R, 4X, Marine			
EXDSO301R/24 28	24–28V DC	Red	3R, 4X, Marine			

Temperature Performance Data:

Description	Ambient Max. Temp.	Supply Wire	Class I, Div. 1, 2, Groups C, D, Class I, Zone 1, Group IIB	Class II, Class III, Div. 1, Groups E, F, G	Class II, Class III, Div. 2, Groups F, G
EXSO Series Steady-On Beacon Voltage 120V AC	40°C	75°C	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T5 (100°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T5 (100°C)	T4 (135°C)	T4 (135°C)
EXDSO Series Steady-On Beacon-Diode Polarized Voltage 24-28V DC	40°C	75°C	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T6 (85°C)	T4 (135°C)	T4 (135°C)



HAZARD•GARD®

Division 1, Zone 1

Steady-On Beacons

Dimensions

In Inches:

Description

Pendant

Stanchion

Ceiling

Wall

Luminaire Housing with Guard

Add mounting modules:

COOPER Crouse-Hinds

Weight

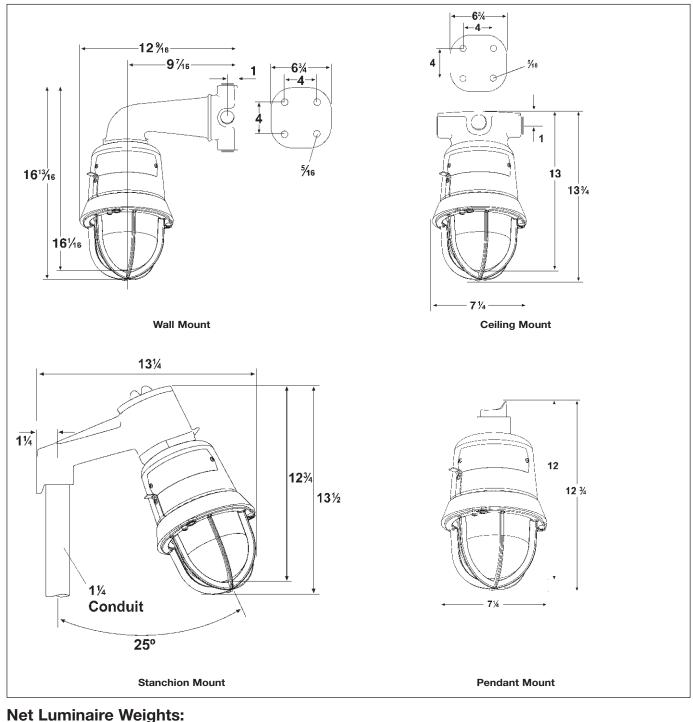
11.0 lbs.

1.0 lbs.

1.0 lbs.

4.5 lbs.

2.5 lbs.



www.crouse-hinds.com US: 1-866-764-5454 CAN: 1-800-265-0502 Copyright® 2011 Cooper Crouse-Hinds

3S

VF "Steady On" Beacon

Compact Fluorescent Warning and Visual **Indication Light**

Cl. I, Div. 2, Groups A, B, C, D Green – Safety Shower Cl. I, Zone 2, Group IIC Wet Locations 3, 3R

Blue – Emergency Telephones Red – Danger Amber – Warning Visual Signal

Applications:

VF series "Steady On" fluorescent beacons are used indoors or outdoors:

- · Where the energy efficiency and long life of compact fluorescent lamps are desired
- · For continuous signaling requirements
- · Where a continuous "Steady-On" fluorescent light signal is required
- · Where ambient noise makes audible signals difficult to hear
- · As visual signals or warning lights on loading docks; at obstructions, exits or entrances
- · For identifying the location of safety equipment such as safety showers or emergency telephones
- · For call signals
- · For status indication or area lighting on offshore rigs, mines, refineries etc.
- · In locations which are hazardous due to the presence of flammable vapors or gases and where dampness or corrosion are present
- · To identify a potentially dangerous obstacle
- · As a continuous source to warn or communicate
- Typical Applications are:
- · Green Identify safety shower locations
- Blue Identify emergency telephones
- Amber Caution signal
- Red Danger signal
- Red & Amber Emergency situations
- · Blue & Red Security or malfunctioning equipment
- · Green & Clear Equipment end of cycle

Features:

- Extremely energy-efficient, only 18 watt (2-9 watt compact fluorescent lamps)
- · Packs considerable punch for ample visibility even in harsh enviroments
- · Compact size and light weight allow adaptation and easy installation in many industrial applications
- Cast copper-free aluminum (less than 0.4 of 1% copper) construction and epoxy powder finish provide excellent resistance to corrosion
- · Variety of mounting arrangements to suit any lighting layout pendant, ceiling, wall bracket, angle stanchion
- Glass globes are internally fluted and stippled to enhance visibility; exteriors are smooth to shed dust
- · Grounding wire for safety

Ordering Information:

	Cat. # - by Globe Color							
Style	Red	Amber	Green	Blue	Clear			
Pendant	VFA222GRP	VFA222GAP	VFA222GGP	VFA222GBP	VFA222GP			
Wall	VFHBF222GRP	VFHBF222GAP	VFHBF222GGP	VFHBF222GBP	VFHBF222GP			
Ceiling	VFHF222GRP	VFHF222GAP	VFHF222GGP	VFHF222GBP	VFHF222GP			
Stanchion	VFHA422GRP	VFHA422GAP	VFHA422GGP	VFHA422GBP	VFHA422GP			

Temperature Performance Data:

Style 1 & 2 Lamp	Class I, Div. 2	Max. Ambient	Supply Wire °C	Minimum Operating	
9W	T3B	40°C	75°C	–4°C (25°F)	



Certifications and Compliances:

- NEC and CEC:
- Class I, Division 2, Groups A, B, C, D Class I, Zone 2
- UL Standards: 844
- 1598 Luminaires
- CSA Standards:
 - C22.2 No. 137

Standard Materials:

- Bodies and guards copper-free aluminum (less than 0.4 of 1%)
- Globes glass

Standard Finishes:

Copper-free aluminum – powder epoxy finish

Electrical Ratings:

- Input voltage 120 VAC, 60 hertz
- Wattages: 18W (Two 9W lamps)

Weights:

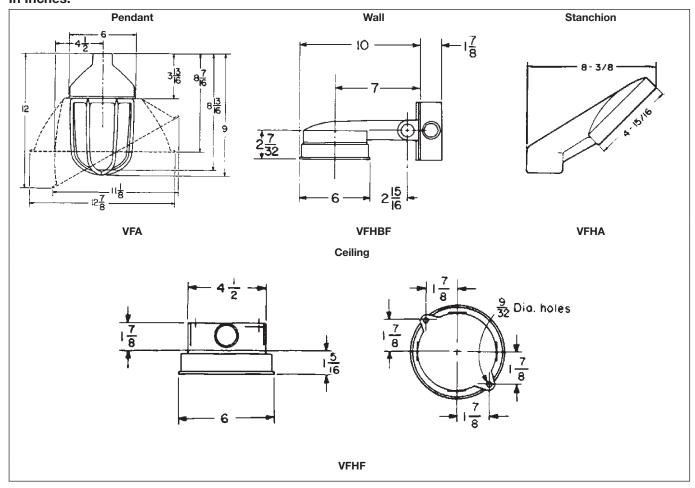
Luminaire Type	2-Lamp Luminaire With Globe & Guard (lbs.)
VFA	5
VFHF	51/4
VFHBF	71/2



VF "Steady On" Beacon

Compact Fluorescent Warning and Visual Indication Light Cl. I, Div. 2, Groups A, B, C, D Cl. I, Zone 2, Group IIC Wet Locations 3, 3R Green – Safety Shower Blue – Emergency Telephones Red – Danger Amber – Warning Visual Signal **3S**

Dimensions In Inches:





Hazardous

Description	Page No.
Status Lights - MEDC Series	
FB12 SL	see pages 1226-1229
SM87 SL	see pages 1226-1229
XB11 SLUL	see pages 1226-1229
XB12 SL	see pages 1226-1229



4S Status Lights

MEDC Series



SM87 SL

NOTE: Units shown are for representation only. Other variations are available.

The most rugged and reliable status lights for harsh and hazardous applications.

Available as Xenon, incandescent and fluorescent beacons/strobes.

The SM87 SL range is manufactured in marine grade alloy and the XB12 SL in corrosion-free GRP to provide a wide range of status lights to suit your requirements.

All units can be supplied as 1, 2, 3, 4 or 5 stacks.

Applications:

- Process status
- Messaging

\$

Alert or emergency condition indication

Typical Industries:

- Offshore & onshore
- Energy exploration & transmission
- Refining
- Chemical & petrochemical
- Pharmaceutical

Features and Benefits:

- 4-wire monitored connection for supervisory circuits*
- Marine grade alloy or GRP
- Pre-wired to customer's requirements

Certifications and Compliances:

- UL Listed for USA and Canada* Class I, Div. 1 & 2, Groups C, D Class I, Zone 1, AExd IIB T6
- CSA certified*
- ATEX approved
- Xenon, fluorescent, incandescent*
- NEMA 4X & 6, IP66 & 67
- Certified temperature -67°F to +131°F* -55°C to +55°C



MEDC Series

SM87 SL		Xenon Inc	andesce	nt & Fluorescent Status Lights	- Explosionproof	
	Certification UL Listed for:		cULus, Class I,	cULus, CSA, ATEX Class I, Div. 1, Groups C, D Class I, Zone 1, AExd IIB T4		
	Certified Temperat		–67°F to –55°C to	o +158°F o +70°C		
. 10 700	Ingress P	rotection	NEMA 4		14-49/64"	
	Material		Alloy		375mm	
	Entries		Up to 1	x 1/2" NPT		
10,0	Max. No.	of Ways	4			
·	Options			lens color, certification, s 24–48V DC, 110–254V AC	6-7/8" / 175mm DEEP	
Certification	Voltage	Ordering Code	Cat. #	Standard Produc	t Configuration	
UL, cUL Listed, Class I, Div. 1, Groups C, D	24V DC	26200043	SM87SL3	Explosion protected, three stack, on guards, xenon strobe with		
UL, cUL Listed, Class I, Div. 1, Groups C, D	24V DC	26200055	SM87SL2	Xenon status lamp, two stack 5 joule b red stainless steel baseplate, one red entry in the bottom unit fo	and one green lens color, 1/2" NPT	
UL, cUL Listed, Class I, Div. 1, Groups C, D	24V DC	26200056	SM87SL2	Incandescent status lamp, two stack a painted red stainless steel baseplate, NPT entry in the bottom uni	one red and one green lens color, $^{1\!/_{\!2}"}$	
UL, cUL Listed, Class I, Div. 1, Groups C, D	24V DC	26200057	SM87SL2	Fluorescent status lamp, two stack 5 watt beacons interconnected on painted red stainless steel baseplate, one red and one green lens cold '/2" NPT entry in the bottom unit for customer connection		
UL, cUL Listed, Class I, Div. 1, Groups C, D	110V AC	26200058	SM87SL2	Xenon status lamp, two stack 5 joule b red stainless steel baseplate, one red entry in the bottom unit fo	d and one green lens color, 1/2" NPT	
UL, cUL Listed, Class I, Div. 1, Groups C, D	24V DC	26200059	SM87SL3	Xenon status lamp, three stack 5 jo painted red stainless steel baseplate, lens color, ½" NPT entry in the bot	one red, one amber and one green	
UL, cUL Listed, Class I, Div. 1, Groups C, D	24VDC	26200060	SM87SL3	Incandescent status lamp, three stack a painted red stainless steel baseplate lens color, ½" NPT entry in the bot	e, one red, one amber and one green	
UL, cUL Listed, Class I, Div. 1, Groups C, D	24V DC	26200061	SM87SL3	Fluorescent status lamp, three stack painted red stainless steel baseplate, lens color, ½" NPT entry in the bot	one red, one amber and one green	
UL, cUL Listed, Class I, Div. 1, Groups C, D	110V AC	26200062	SM87SL3	Xenon status lamp, three stack 5 jo painted red stainless steel baseplate, lens color, 1/2" NPT entry in the bot	one red, one amber and one green	
UL, cUL Listed, Class I, Div. 1, Groups C, D	110V AC	26200066	SM87SL3	Incandescent status lamp, three stack a painted red stainless steel baseplate lens color, ½" NPT entry in the bot	e, one red, one amber and one green	
UL, cUL Listed, Class I, Div. 1, Groups C, D	220V AC	26200063	SM87SL3	Fluorescent status lamp, three stack s painted red stainless steel baseplate, lens color, 1/2" NPT entry in the bot	one red, one amber and one green	

4S Status Lights

Explosionproof Weatherproof

MEDC Series

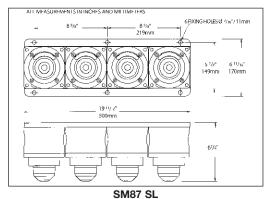
XB11 SLUL	X	enon Stro <u>be</u>	& Incan	lescent Status Lights—Haza	rdous Locations
	Certifica UL Liste		CI	, ATEX ass I, Div. 2, Groups C, D ass I, Zones 1 & 2, AExd IIB T4	8 1/16 205mm
	Certified Ambient Temperature		-	7°F to +158°F 5°C to +70°C	
•	Ingress	Protection		MA 4X & 6 66 & 67	14-3/8" 365mm o
	Material		Co	rrosion-free GRP	
	Entries			α ½" NPT	
		. of Ways	5		
	Options		B	dy & lens color, tag & duty labels	7-9/16" / 192mm DEEP
Certification		Ordering Code	Cat. #		ct Configuration
UL Listed, Class I, Div. 2, Gro	ups C, D	42500005	XB11ULS	J green incandescent on top, yell	½" NPT entry on bottom, 24V DC, ow xenon flashing in middle, red , no lens guards, red finish
XB12 SL/FB12 SI	_ X	enon Strobe	e & Incan	lescent Status Lights-Haza	rdous Locations
0	Cortific	ation	UL, AT	ΞY	
	Certification UL Listed for:		Class I	_^ Div. 2, Groups C, D Zones 1 & 2. AExd IIB T4	II-1∕16"
	Certified Ambient		-67°F	o +158°F	
	Temperature Ingress		–55°C NEMA	0 +70°C	
0	Protection		IP66 &		19-3/4"
	Material			on-free GRP	
	Entries		1 x ½"	NPT	
	Max. No. of Ways Options		5 Body 8	lens color, certification,	
•	option			s 24V DC, 110–254V AC	II-13/32" / 290mm DEEP
Certification		Ordering Code	e Cat. #		ct Configuration
UL Listed, Class I, Div. 2, Gro	ups C, D	42600001	XB12ULS	L3 red xenon flashing on top, ambe	hree stack, one ½" NPT entries, er xenon flashing in middle, clear ; no lens guards, red finish
UL Listed, Class I, Div. 2, Gro	ups C, D	42600007	XB12ULS	12 interconnected on a painted red and one green lens color, 1/2" N	two stack 21 joule beacons stainless steel baseplate, one red NPT entry in the bottom unit for connection
UL Listed, Class I, Div. 2, Gro	ups C, D	42600008	FB12ULS	_2 interconnected on a painted red and one green lens color, 1/2" N	amp, two stack 60W beacons stainless steel baseplate, one red NPT entry in the bottom unit for connection
UL Listed, Class I, Div. 2, Gro	ups C, D	42600009	XB12ULS	L3 interconnected on a painted re red, one amber and one green	three stack 21 joule beacons d stainless steel baseplate, one lens color, ½" NPT entry in the stomer connection
UL Listed, Class I, Div. 2, Gro	ups C, D	42600010	FB12ULS	-3 interconnected on a painted re red, one amber and one green	amp, three stack 60W beacons d stainless steel baseplate, one lens color, ½" NPT entry in the stomer connection



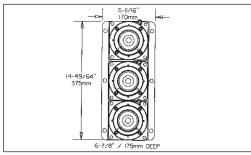
4S

Status Lights

MEDC Series

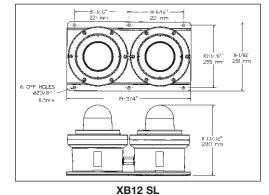


Typical four unit assembly. Various options are available.



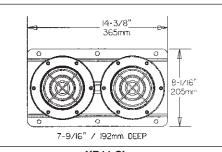
SM87 SL typical three unit assembly

Specification—SM87SL Unit and XB12SL Unit



4S

Typical two unit assembly. Various options are available.



XB11 SL

	SM87 SL	XB12 SL		
Lamp Types	Xenon 5 joules maximum Fluorescent 10W or 5W Incandescent 40W maximum	Xenon 21 joules Incandescent 60W		
Voltage Frequency	50 Hz as standard. 60 H	z available if required.		
Xenon Voltages	24, 48V DC 110, 120, 240, 254V AC (see SM87 HXB data sheet for further information)	24V DC, 110V, 240V AC (see XB12 data sheet for further information)		
Incandescent Voltages	12, 24, 48V DC, 110, 220, 240, 254V AC (see SM87 LU3 data sheet for further information)	120V AC (see FB12 data sheet for further information)		
Fluorescent Voltages	12, 24, 48V, 220, 240, 254V AC (see SM87 LU1 data sheet for further information)	_		
Lamp Colors	Red, Amber, Yellow, C	Green, Blue or Clear		
Certification	UL Listed for USA and Canada Class I, Div. 1, Groups C, D, Class I, Zone 1, AExd IIB T6. Listing No. E187894. CSA Certified: Class I, Div. 1 & 2, Group D. Cert. No. 96406. ATEX Approved: Exd IIC T4 (incandesent), Exd IIC T6 (Fluorescent & Xenon) Cert. No. Baseefa 03ATEX0222X CENELEC EN50014, EN50018	UL Listed for USA and Canada Class I, Div. 2, Groups C, D, Class I, Zones 1 & 2, AExd IIB T4/T5 Listing No. E187894 ATEX Approved: Exd IIB T4/T5 Cert. No. 99 ATEX 2196 CENELEC EN50014 and EN50018		
Terminals	Will accept up to 14AWG cable	Will accept up to 6 off 10AWG cable		
Wiring	Standard configuration of internal wiring is to If individually wired lamps are requ			
Entries	Up to 3 x 1/2" or 3/4" NPT	1 x ½" NPT		
Enclosure	LM 25TF Marine Grade Alloy	GRP		
Lens	Glas	SS		
Finish	Epoxy paint as standard or to customer's specification	Natural black or epoxy paint to customer's specification		
Ingress Protection	NEMA 4X and	6, IP66 & 67		
Ambient Temp.	–13°F to 131°F (–25°C to +55°C) – Class I, Div 1 –67°F to +131°F (–55°C to +55°C) – Class I, Zone 1	−67°F to +158°F (−55°C to +70°C)		

NOTE: XB11 SLUL also available.



4S



Hazardous

Description	Page No.
Speakers and Tone Generators - MEDC Series	
DB1	see pages 1233-1234
DB3	see pages 1233, 1235
DB4	see pages 1236, 1239
DB5	see pages 1236, 1240
DB12	see pages 1237, 1241
DB15	see pages 1237, 1242
DB16 UL	see pages 1238, 1243
Speakers and Tone Generators - Flex•Tone Series	
ETH640, ETH840	see page 1246
ETH645, ETH845	see page 1245
ETH655, ETH855	see page 1244
Signaling Horns and Bells	
ESR	see pages 1250-1251
ETH	see page 1247
W2H	see page 1248
WH	see page 1249

5S

Speakers & Tone Generators

Hazardous Locations Weatherproof

Up to 30 Watts

Loudspeakers and tone generators provide high decibel communication for messaging, alert and evacuation in harsh and hazardous locations.

- · Metallic and non-metallic housings
- Explosionproof and Class I, Division 2 horns and speakers
- Mounting brackets that allow a full 180° swivel
- Products designed for both conduit wiring and/or cable connection (NPT or metric entries available)
- Selectable tones

This range of loudspeakers, intended for use in potentially explosive gas and dust atmospheres, has a power rating of up to 30 Watts and is suitable for use in the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

The flamepaths, flare and body, are manufactured from a UV stable glass reinforced polyester. Stainless steel screws and mounting stirrup are incorporated to ensure a corrosion-free product.

Applications:

- Plant-wide alarm notificiaton
- Audible process alarms

Typical Industries:

- Refineries
- Chemical plants
- · Oil and gas exploration
- · Marine terminals for transportation & storage



DB16

Certifications and Compliances:

• UL Listed for USA and Canada Hazardous locations:

Class I, Div. 2, Groups A, B, C, D*

Class I, Zone 1, AExde IIB/IIC T3/T4*

Ordinary locations: Signalling Speaker

- ATEX approved
- NEMA 4X & 6, IP66 and IP67
- Certified temperature: -67°F to +104°F
 -50°C to +40°C

Features and Benefits:

- GRP corrosion-free flamepath
- Up to 112dBA at 30 Watts at 10 feet*
- Power tappings via integral transformer
- Ratcheted swivel mounting stirrup
- Stainless steel fixtures
- 100V line or 8 ohm versions available
 *Model dependent.



SS

Speakers & Tone Generators

Up to 30 Watts

DB1	103dB((A) @ 10ft I	Horn — Explo	osionproof			
25 - 19	Certificat UL Listed	ion	UL, ATEX Class I, Div. 1 Class I, Zone	, Groups C, D			_
	Certified Temperat		-13°F to +158 -25°C to +70°	°F			4
	Ingress P		NEMA 4X & 6	0			6-5/8" / 168MM (DBI) (8-1/2" / 216mm (DBIH))
	Material		IP66 & 67 Alloy				
0	Entries		Up to 3 x ½ "	or ¾" NPT, 20	mm, 25mm		
	Weight		7.7lb/3.5kg (m	odel depende	nt)	≪	" / 17imm Bi-
	No. of To	nes	Multiple tones				
	Options:		Body color, ce 12–48V DC, 1		tages		
Certification		Output	Ordering Code	Ca	t. #	S	tandard Product Configuration
ATEX approved Ex II 2GD	1	03dB(A)	801001	DB1BA024	A1A3NNNR	Choic	e of 6 tones, red finish
JL Listed, Class I, Div. 2, Groups	s C, D Up to 9	96dB(A) @ 101	ft 869111	DB1PULA02	4D1D2NNNR		ge alarms, with 26 tones, alloy, red body color, no
UL Listed, Class I, Div. 2, Groups	s C, D Up to 1	03dB(A) @ 10	oft 869115	DB1HPULA0	24D1D2NNNR		duty labels, 2 x ³ / ₄ " NPT entries
UL Listed, Class I, Div. 2, Groups	s C, D Up to 9	96dB(A) @ 101	ft 17300108	DB1PULA11	0C1C3NNNR		r, 110V AC, 2 x ½" NPT , red painted enclosure
DB3	108dB((A) @ 10ft I	Horn—Haza	Irdous Loc	ations		
DB3	108dB(Certificati UL Listed	ion	Horn — Haza cULus, ATEX Class I, Div. 2, Class I, Zones	Groups A, B,	C, D		
DB3	Certificati UL Listed Certified	on for: Ambient	cULus, ATEX Class I, Div. 2, Class I, Zones -67°F to +158	Groups A, B, 1 & 2, AExd I °F	C, D		10-11/16" 8-
DB3	Certificati UL Listed	on for: Ambient ure	cULus, ATEX Class I, Div. 2, Class I, Zones	Groups A, B, 1 & 2, AExd I °F	C, D		
DB3	Certificati UL Listed Certified A Temperate	on for: Ambient ure	cULus, ATEX Class I, Div. 2, Class I, Zones -67°F to +158 -55°C to +70° NEMA 4X & 6	, Groups A, B, 1 & 2, AExd I °F C	C, D	ф ¢4-5/8" ¢II7mm	27/mm
DB3	Certificati UL Listed Certified A Temperatu Ingress Pr Material Entries	on for: Ambient ure	cULus, ATEX Class I, Div. 2, Class I, Zones -67°F to +158 -55°C to +70° NEMA 4X & 6 IP66 & 67 Corrosion-free Up to 2 x ¹ /2" N	Groups A, B, 1 & 2, AExd I °F C GRP	C, D	∉ ¢4-5/8 ¢17/m ∳17/m	27imm
DB3	Certificati UL Listed Certified Temperatu Ingress Pr Material Entries Weight	on for: Ambient ure rotection	cULus, ATEX Class I, Div. 2, Class I, Zones -67°F to +158 -55°C to +70° NEMA 4X & 6 IP66 & 67 Corrosion-free Up to 2 x ¹ /2" N 13.2lb/6.0kg	Groups A, B, 1 & 2, AExd I °F C GRP IPT, 20mm	C, D	¢4-5/8" ¢117mm	27imm
DB3	Certificati UL Listed Certified A Temperatu Ingress Pr Material Entries	on for: Ambient ure rotection	cULus, ATEX Class I, Div. 2, Class I, Zones $-67^{\circ}F$ to +158 $-55^{\circ}C$ to +70° NEMA 4X & 6 IP66 & 67 Corrosion-free Up to 2 x $\frac{1}{2}^{"}$ N 13.2lb/6.0kg 27 + 5 Prograf Body color, ce	Groups A, B, 1 & 2, AExd I °F C G GRP NPT, 20mm mmable ertification, volt	C, D IC T4	¢4-5/8"	27imm
DB3	Certificati UL Listed Certified Temperatu Ingress Pr Material Entries Weight No. of Tor	on for: Ambient ure rotection	cULus, ATEX Class I, Div. 2, Class I, Zones $-67^{\circ}F$ to +158 $-55^{\circ}C$ to +70° NEMA 4X & 6 IP66 & 67 Corrosion-free Up to 2 x $\frac{1}{2}^{\circ}$ N 13.2lb/6.0kg 27 + 5 Program	Groups A, B, 1 & 2, AExd I °F C 9 GRP NPT, 20mm mmable ertification, volt 10V-254V AC Ordering	C, D IC T4	øli7mm	27/mm Gett/16"
Certification JL, cUL Listed, Class I, Div. 2,	Certificati UL Listed Certified Temperatu Ingress Pr Material Entries Weight No. of Tor Options:	on for: Ambient ure rotection	cULus, ATEX Class I, Div. 2, Class I, Zones -67°F to +158 -55°C to +70° NEMA 4X & 6 IP66 & 67 Corrosion-free Up to 2 x ½" N 13.2lb/6.0kg 27 + 5 Prograf Body color, ce 12-48V DC, 1	Groups A, B, 1 & 2, AExd I F C G G RP NPT, 20mm mmable rrtification, volt 10V–254V AC Ordering Code	C, D IC T4	##77mm	27/mm
Certification JL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	Certificati UL Listed Certified Temperatu Ingress Pr Material Entries Weight No. of Tor Options: Body Color	on for: Ambient ure rotection nes Voltage	cULus, ATEX Class I, Div. 2, Class I, Zones $-67^{\circ}F$ to +158 $-55^{\circ}C$ to +70° NEMA 4X & 6 IP66 & 67 Corrosion-free Up to 2 x $\frac{1}{2}^{"}$ N 13.2lb/6.0kg 27 + 5 Program Body color, ce 12–48V DC, 1 Type*	Groups A, B, 1 & 2, AExd I F C G G G G G F T C G G G C MPT, 20mm mmable rtification, volt 10V–254V AC Ordering Code e 869131	C, D IC T4	##2CNRZ	27 lmm Standard Product Configuration 27 tones, no tag or duty labels, 108 dB(A) output NEMA 4X & 6, 2 x 1/2"
Certification JL, cUL Listed, Class I, Div. 2, Groups A, B, C, D JL, cUL Listed, Class I, Div. 2, Groups A, B, C, D JL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	Certificati UL Listed Certified Ingress Pr Material Entries Weight No. of Tor Options: Body Color Red	Ambient ure rotection nes Voltage 12-48V DC	cULus, ATEX Class I, Div. 2, Class I, Zones $-67^{\circ}F$ to +158 $-55^{\circ}C$ to +70° NEMA 4X & 6 IP66 & 67 Corrosion-free Up to 2 x $\frac{1}{2}^{"}$ N 13.2lb/6.0kg 27 + 5 Program Body color, ce 12–48V DC, 1° Type* Single Stage	Groups A, B, 1 & 2, AExd I °F C G GRP NPT, 20mm mmable ertification, volt 10V–254V AC Ordering Code e 869131 e 869132	C, D IC T4 tages Cat. DB3UL048N	# 2CNRZ N2CNRZ	27 lmm Standard Product Configuration 27 tones, no tag or duty labels, 108 dB(A) output
Certification UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	Certificati UL Listed Certified A Temperatu Ingress Pr Material Entries Weight No. of Tor Options: Body Color Red Red	ion for: Ambient ure rotection nes Voltage 12–48V DC 12–48V DC	cULus, ATEX Class I, Div. 2, Class I, Zones $-67^{\circ}F$ to +158 $-55^{\circ}C$ to +70° NEMA 4X & 6 IP66 & 67 Corrosion-free Up to 2 x $\frac{1}{2}^{"}$ N 13.2lb/6.0kg 27 + 5 Program Body color, ce 12–48V DC, 1 Type* Single Stage Single Stage	Groups A, B, 1 & 2, AExd I •F C • GRP NPT, 20mm mmable ertification, volt 10V–254V AC • Ordering Code • 869131 • 869132 • 869135	C, D C T4 tages Cat. DB3UL048N: DB3PUL048I	# 22CNRZ N2CNRZ 22CNRZ	27 lmm Standard Product Configuration 27 tones, no tag or duty labels, 108 dB(A) output NEMA 4X & 6, 2 x ½" NPT entries with
Certification UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D ATEX Ex II 2GD ATEX Ex II 2GD	Certificati UL Listed Ingress Pr Material Entries Weight No. of Tor Options: Body Color Red Red Red Red Natural Black	Ambient ure rotection nes Voltage 12–48V DC 12–48V DC 110V AC 12–48V DC 240V AC	cULus, ATEX Class I, Div. 2, Class I, Zones $-67^{\circ}F$ to $+158$ $-55^{\circ}C$ to $+70^{\circ}$ NEMA 4X & 6 IP66 & 67 Corrosion-free Up to 2 x $\frac{1}{2}^{\circ}$ N 13.2lb/6.0kg 27 + 5 Program Body color, ce 12-48V DC, 1 Type* Single Stage Single Stage Single Stage Single Stage	Groups A, B, 1 & 2, AExd I °F C PGRP IPT, 20mm mmable ertification, volt 10V-254V AC Ordering Code e 869131 e 869132 e 869135 e 803121 e 803122	C, D C T4 tages Cat. DB3UL048N DB3PUL048I DB3PUL048I DB3UL110N DB3D240N2	# 2CNRZ N2CNRZ 2CNRZ 22NRZ 2BNNZ	27 tones, no tag or duty NPT entries with certified plug 27 tones, no tag or duty
Certification UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D ATEX Ex II 2GD ATEX Ex II 2GD ATEX Ex II 2GD	Certificati UL Listed Certified Ingress Pr Material Entries Weight No. of Tor Options: Body Color Red Red Red Red Natural Black Natural Black	ion for: Ambient ure rotection nes Voltage 12–48V DC 12–48V DC 12–48V DC 240V AC 12–48V DC	cULus, ATEX Class I, Div. 2, Class I, Zones -67°F to +158 -55°C to +70° NEMA 4X & 6 IP66 & 67 Corrosion-free Up to 2 x ½" N 13.2lb/6.0kg 27 + 5 Program Body color, ce 12-48V DC, 1 Single Stage Single Stage Single Stage Two Stage Single Stage Two Stage	Groups A, B, 1 & 2, AExd I °F C G G G G PT, 20mm mmable ertification, volt 10V-254V AC Ordering Code e 869131 e 869132 e 869135 e 803121 e 803122 e 803123	C, D C T4 tages Cat. DB3UL048N DB3PUL0481 DB3PUL0481 DB3PD048N DB3D240N22 DB3PD048N	# 2CNRZ 2CNRZ 2CNRZ 2CNRZ 2BNNZ 2CNRZ 2CNRZ 2CNRZ	27 tones, no tag or duty NPT entries with certified plug 27 tones, no tag or duty labels, 108 dB(A) output NEMA 4X & 6, 2 x 1/2" NPT entries with certified plug 27 tones, no tag or duty labels, 2 x M20 entries
Certification UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D ATEX Ex II 2GD ATEX Ex II 2GD	Certificati UL Listed Ingress Pr Material Entries Weight No. of Tor Options: Body Color Red Red Red Red Natural Black	Ambient ure rotection nes Voltage 12–48V DC 12–48V DC 110V AC 12–48V DC 240V AC	cULus, ATEX Class I, Div. 2, Class I, Zones 67°F to +158 -55°C to +70° NEMA 4X & 6 IP66 & 67 Corrosion-free Up to 2 x ½" N 13.2lb/6.0kg 27 + 5 Program Body color, ce 12-48V DC, 1 Corros Stage Single Stage Corros Stage Single Stage Single Stage Single Stage Single Stage Single Stage Single Stage	Groups A, B, 1 & 2, AExd I °F C G G G G P NPT, 20mm mmable rtification, volt 10V-254V AC Ordering Code e 869131 e 869132 e 869132 e 803122 e 803123 e 803123 e 803123 e 803124	C, D C T4 tages Cat. DB3UL048N DB3PUL048I DB3PUL048I DB3UL110N DB3D240N2	# 2CNRZ 2CNRZ 2CNRZ 2CNRZ 2CNRZ 2BNNZ 2CNRZ 2CNRZ BNNZ 2CNRZ	27 tones, no tag or duty NPT entries with certified plug 27 tones, no tag or duty

*Single Stage

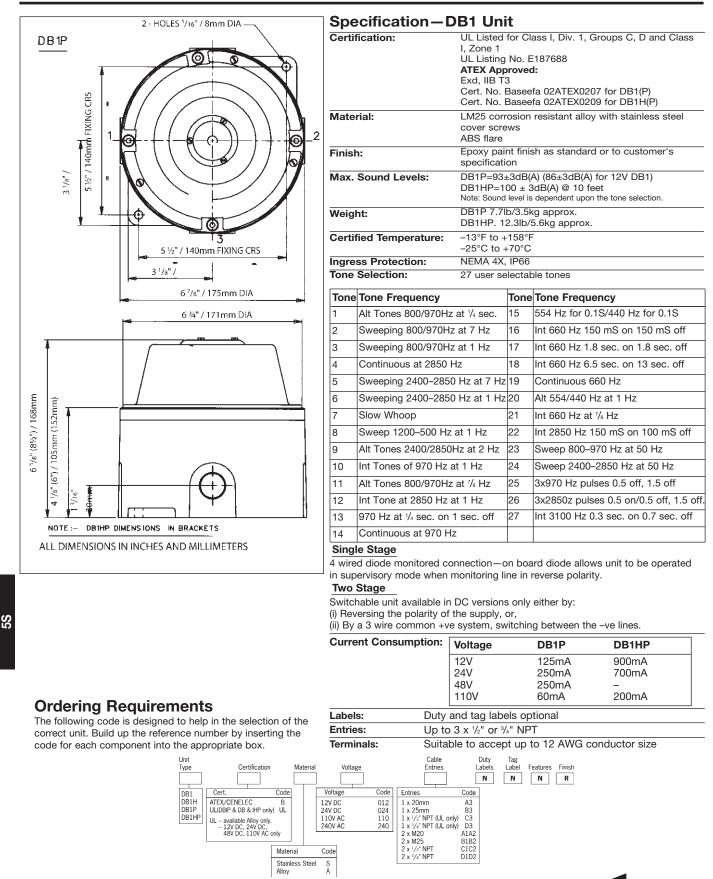
4 wired diode monitored connection-on board diode allows unit to be operated in supervisory mode when monitoring line in reverse polarity.

*Two Stage Switchable unit available in DC versions only either by: (i) Reversing the polarity of the supply, or, (ii) By a 3 wire common +ve system, switching between the -ve lines.

5S Speakers & Tone Generators

Hazardous Locations Weatherproof

Up to 30 Watts





Speakers & Tone Generators

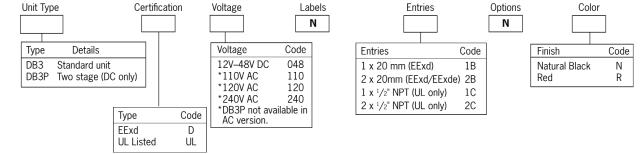
Up to 30 Watts

		Specificatio	on—DB3 Unit
	10 ¹¹ /16" 271mm Briting Briti	Certification:	UL Listed for USA and Canada - Hazardous locations: Class I, Div. 2, Groups A, B, C, D Class I, Zones 1 & 2, AExd IIC T4 UL Listing No. E203310 - Ordinary locations: Audible Signal Device UL Listing No. S8116 ATEX approved: CENELEC EN50014, 18, 19 Cert. No. BAS00ATEX2097X, Exd IIC Cert. No. BAS00ATEX2098X, Exde IIC Zones 1 & 2
	FIXING HOLES Ø ALL ¹¹ /12" / 8.7mm (2 POS.) 2 x ¹ /2" NPT ENTRIES MAX 7 ¹² /32"	Material:	Body & horn in anti-static, UV stable, glass reinforced polyester Swivel bracket and captive cover screws in stainless steel
	22.5°	Finish:	Body and horn, natural black or epoxy paint coated to client's color requirements
	30mm	Sound Output:	DB3 105 ±3dB(A) Typical at 10 feet (tone dependent)
		Volume Control:	Integral volume control
	2 - 2 - 1 - 1 ³ /16 ⁶ 30mm		*Nominal Input Current Output (mA) (dBa)
ALL	ITION 2 IS USED IF ONLY I X 1/2" NPT ENTRY REQUIRED		83509510098150101200102250
Terminals:	4 x 14 AWG (AC), 6 x 14 AWG (DC)		104 300 105 350
Mounting:	Stainless steel bracket with rachet facility		*Output measured with 24V input voltage. Tone set to 970Hz
Labels:	Duty and tag labels optional		continuous.
Cable Entries:	UP TO 2 × 1/2" NPT	Weight:	13.2lb/6.0kg approx.
Tone Selection:	27 user selectable tones available	Certified Temperature:	–67°F to +158°F –55°C to +70°C
Horn/Strobe Unit:	The DB3 may be combined with an MEDC strobe to create a combined audio/visual alarm.	Ingress Protection:	NEMA 4X & 6, IP66 & 67
	Contact MEDC for price and specification.	Voltage:	Up to 48V DC Up to 254V AC
Two Stage Unit: DB	 3P Switchable between any two tones by either: (i) Reversing the polarity of the supply, or (ii) by a 3 wire common +ve system, switching between the two -ve lines. Note: Two stage unit available in <u>DC</u> versions only. 	Current Consumption:	V I 12V DC 760mA 24V DC 380mA 48V DC 190mA 110V AC 135mA 120V AC 124mA
3 & 4 Tone Unit:	Remote 3 & 4 tone unit available—contact sales office for details.		220V AC 68mA 230V AC 65mA 240V AC 62mA 254V AC 62mA

Ordering Requirements

COOPER Crouse-Hinds

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.



5S Speakers & Tone Generators

Hazardous Locations Weatherproof

DB5FM024NR Intrinsically safe, 26 tones, 93 dB(A) output, natural red body color, no tag or duty labels, $2 \times \frac{13}{16}^{"}$ entries via knockouts

Up to 30 Watts

DB4	8	-25 Watt S	peaker-	-Hazai	dous Locations	\$			
Certification UL Listed for:			cULus, ATEX Class I, Div. 2, Groups A, B, C, D Class I, Zone 1, AExd IIC T4				<u>I5 & 25₩ VERSION</u> S		
AL C		ed Ambient erature	–67°F to –55°C to				ø4-5/8" @ • 1		
	Ingres	s Protection	NEMA 4X				ø4-5/8" øil7mm @ 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
	Materi	al	Corrosior		P				
	Outpu	t	97 dB(A) 109 dB(A		10 feet at 10 feet		BW_VEBSION		
-	Entrie	S	Up to 2 x	,			ø4-5/8" O o ø5-3/8" øli7mm Ø o øli37mm		
-	Weigh	-	11lb/5.0k	•			øli7mm		
	Optior	IS	Body col 15W, 8W	,	ormer, certification,	power 25W,			
Certification	Pow	er Orderir	ng Code		Cat. #	Stand	dard Product Configuration		
UL, cUL Listed Class I, Div. 2 Groups A, B, C, D	25	N 869	9142	DB42	5ULX(100)N2CNR		/ line transformer, no labels, 1/2" NPT entries, red finish		
UL, cUL Listed Class I, Div. 2 Groups A, B, C, D	25	W 869	9144	DB42			V line transformer, no labels, x ¼" NPT entries, red finish		
ATEX Approved ExII 1G	15\	N 804	4215				/ line transformer, no labels, x M20, one certified plug,		
ATEX Approved ExII 1G	25\	N 804	225 DB425DXN2BNZ flame			proof enclosure, natural black finish			
DB5		n to 93dB(Δ) @ 10·	ft Horn	-Intrinsically S	Safe			
	Certifi FM Ap	cation proved for:	FM, AT Class I	ΈX	2, Groups A, B, C, I				
		ed Ambient erature		to +131°F					
	Ingres	s Protection	NEMA 4 IP65				4-I/32" IO3mm		
	Mater	ial	Corros	ion-free A	ABS				
	Entrie	Entries		2 x ¹³ / ₁₆ " v	ia knockouts				
	Weigh	t	0.7lb/0	.3kg					
	No. of	Tones	26						
	Optior	าร	Body c	olor, cert	ification, voltages 12	2V-240V DC			
Certification	Voltage	Ordering Co	de Ca	at. #	Sta	andard Prod	uct Configuration		
ATEX Approved ExII 1G	12V DC	805001 805002	-	012NR 024NR	Intrinsically s		× M20 entries via knockouts, atural red finish		
ATEX Approved Exll 1G	24V DC	605002	DROB	JZ4INK		no labels, fi			

FM Approved for Class I, Div. 1 & 2, Groups A, B, C, D

24V DC



Speakers & Tone Generators

Up to 30 Watts

DB12		110dB	(A) Sounder-	Weatherpro	of & Heavy Duty	
2		Certification UL Listed for:		Weatherproof		
		Certified Amb	pient Temperature	-55°C to +70°	С	
		Ingress Protection		NEMA 4X & 6 IP66 & 67		I20mm
		Material		Corrosion-free GRP		F
		Entries Weight		Up to 3 x 20mm		
				1kg		
		No. of Tones		27 + 5 programmable		øl40mm — 🕞
		Options		Body color, voltages 12V & 24V DC		
Certification	Voltage	Туре	Ordering Code	Cat. #	Standard F	Product Configuration
CE Certification	115/230V AC	Single Stage	808003	DB12115NN	Weatherproof, dust-tight, no labels, choice of 27 natural red finish, 3 x M20 knockouts	
CE Certification	24V DC	Two Stage	869155			e of 27 tones, natural red finish, M20 knockouts

DB15	110c	IB(A) Tone Generator—Weatherproof &	Heavy Duty
	Certification UL Listed for:	Weatherproof	
	Certified Ambient Temperature	–55°C to +70°C	≪ 245mm >
	Ingress Protection	NEMA 4X & 6 IP66 & 67	
	Material	Corrosion-free GRP	øl63mm o døl23mm
	Entries	2 x M20	
	Weight	2.6kg	
-	No. of Tones	27 + 5 programmable	
	Options	Body color, two stage alarm (DB15P) version, earth continuity, EOL resistor, voltages 12–48V DC, 110–254V AC	

Certification	Voltage	Туре	Ordering Code	Cat. #	Standard Product Configuration
CE Certification	12-48V DC	Two Stage	808110	DB15P048NN	Weatherproof, dust-tight, no labels, choice of 27 tones, painted gray finish
CE Certification	12–48V DC	Two Stage	808115	DB15P048NR	Weatherproof, dust-tight, no labels, choice of 27 tones, painted red finish
CE Certification	240V AC	Single Stage	808120	DB15240NN	Weatherproof, dust-tight, choice of 27 tones, natural gray finish
CE Certification	240V AC	Single Stage	808125	DB15240NR	Weatherproof, dust-tight, choice of 27 tones, painted red finish



5S Speakers & Tone Generators

Hazardous Locations Weatherproof

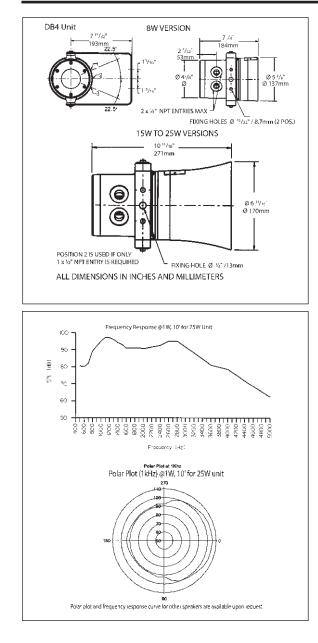
Up to 30 Watts

DB16 UL	30 W	/att Speaker — Haza	ardous & Ord	inary Locations
A second	Certification UL Listed for:	cULus, ATEX Class I, Div. 2, Groups C, Class I, Zone 1, AExde IIE		
	Certified Ambient Temperature	-61°F to +90°F -50°C to +40°C		13 61/64
	Ingress Protection	NEMA 4X & 6 IP66 & 67		
	Material	Corrosion-free GRP		ø/1-57/6/" Ø ø/0-5//6"
	Output Groups A, B, C, D:	Groups C & D:100dB(A) at 1Watt at 10 ft. 112dB(A) at 30 Watts at 10 ft. 3dB(A) less than C & D versions		Øl24mm ▲
-	Entries	Up to 2 x ½" NPT or 2 x 3 25mm	4" NPT, 20mm,	
-	Weight	12.1lb/5.5kg		
-	Tappings @ 30 Watts	30, 25, 12, 6, 4, 2		
-	Options:	Body color, transformer		
Certification	Ordering Code	Cat. #	Stand	ard Product Configuration
UL, cUL Listed, Class I, Div 2, Groups C & D	28600006	DB16UCXN2MPN		r gas Groups A, B, C, D, 70V line x ½" NPT, one certified plug, natural



Speakers & Tone Generators

Up to 30 Watts



Ordering Requirements

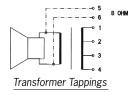
	Max. Rate Power	d Certifica	tion	Transforme	r	Labels	Entries		Colo	r
DB4						Ν				
Po wer	Code	Туре	Code	Transformer	Code		Entries	Code	Color	Code
8 watt	8	EExd	D	Yes	Χ*		1 x M20 (EExd)	1B	Natural Black	Ν
15 watt	15	UL lised	UL	None	N		2 x M20 (EExd/EExdel)	2B	Red	R
25 watt	25			* Std 100V Other available, specify			$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			

To specify certified plug, suffix appropriate code with 'P'. e.g. 2BP is 2 x M20 entries with one certified plug.

Specification -	DB4 Unit			
Rated Power:	8, 15 or 25 watts RMS continuous (at 77°F)			
Certification:	UL Listed for USA and Canada - Class I, Div. 2, Groups A, B, C, D - Class I, Zone 1, AExd IIC T4 UL Listing No. E203310 ATEX approved: EN50014, 18, 19 Cert. No.BAS00ATEX2097X, Exd IIC T4/T5 Cert. No. BAS00ATEX2098X, ExDC IIC T4/T5 Zones 1 and 2; not for use in atmospheres containing carbon disulphide			
Material:	Body & horn in anti-static, UV stable, glass reinforced polyester Swivel bracket in stainless steel Captive cover screws in stainless steel			
Finish:	Body and horn, natural black or epoxy paint coated to client's color requirements			
Output:	97 dB(A) at 1 watt at 10 feet 109 dB(A) at 25 watts at 10 feet Measured in accordance with IEC 268			
Weight:	11lb/5.0kg approx. dependent on model			
Certified Temperature:	−67°F to +158°F −55°C to +70°C			
Ingress Protection:	NEMA 4X and 6, IP66 & 67			
Frequency Range:	400Hz to 8kHz			
Voice Coil Impedance:	8 ohms			
Transformer				

Transformer:

Used to vary the rated power by selecting different tappings (see table below).



Transformer	Power					
Tappings	25W	15W	8W			
1:2	25.0	15.0	8.0			
2:3	12.5	7.5	4.0			
3:4	6.0	5.0	2.0			
1:3	4.0	4.0	1.5			
2:4	2.0	2.0	0.7			
1:4	1.0	0.8	0.4			

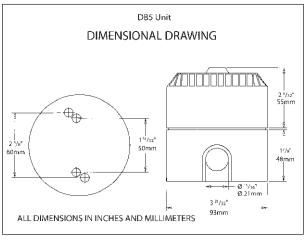
Transformer Options:

i) Loop in/Loop out: (4 x 2) terminal tap change (8 terminals). ii) Optional Tapping: 4 terminal tap change with 2 terminals (5 & 6) directly connected to driver (8 ohms).

Other tappings & driver impedances available on request

other tappings a driver impedances available of request.		
Terminals:	8 x 14AWG Other terminal arrangements available on request	
Mounting:	Bracket with ratchet facility	
Labels:	Duty and tag labels optional	
Cable Entries:	Up to 2 x ¹ / ₂ " NPT	

Up to 30 Watts



Specification-DB5 Unit			
Certification:	FM approved for Class I, Div. 1,Groups A, B, C, D, J.I. 3001835 CSA certified to C22.2 Nos. 0, 0.4, 0.5, 25, 30, 205, Class I, Groups A, B, D, Cert. No. 79122 ATEX approved , EN50014 and EN50020 & EN50284 Exia IICT4. 12/24V version Cert. No. BAS00ATEX 1259 (unit) and 01E2024 (system) HSE(M) to EN50014, EN50020 and EN50303 Exia 1 Cert. No. MECS01ATEX4260 (unit) and 94Y7095 (system)		
Material:	A.B.S. (Acrylonitrile Butadiene Styrene)		
Finish:	Available in red as standard		
Certified Temperature:	-4°F to +131°F -20°C to +55°C		
Weight:	0.7lb/0.3kg		
Entries:	Up to 1 x ¹³ / ₁₆ " on each side via knockouts		
Sound Output:	90± 3dB(A) at 10 feet for 12V and 24V versions Typical max value only-variable with tone		
Oursel On a sub-			

Current Consumption:

24V model—14 mA max. nominal 12V model—12 mA max. nominal



Up to 30 Watts

Material:	UV stable glass reinforced polyester. Retained stainless steel cover screws
Finish:	Self colored red as standard or epoxy coated to customer's specification
Sound Output:	107± 3dB(A) at 1 meter Typical value only-variable with tone
c Volume Control:	Integral volume control
	*Nominal Output (dBa) Input Current (mA) 92 60 100 70 104 80 109 90 *Output measured with 24V input voltage. Tone set to 2850Hz continuous.
Tone Selection: Single Stage DB12: Two stage Unit DB12P:	 27 user selectable tones Switchable between any two tones by either: (i) Reversing the polarity of the supply, or (ii) by a 3 wire common +ve system, switching between the two -ve lines. Note: Two stage unit available in DC versions only.
Weight:	1.0 kg. Dc, 1.2kg AC
Operating Temperature:	–55°C to +70°C
Ingress Protection:	IP66 & IP67
Voltage:	DC: 12V, 24V AC: 115/230V
Current Consumption:	24V operation 55mA–100mA115V operation 85mA–140mA12V operation 55mA–90mA230V operation 45mA–60mA
Terminals:	6 x 2.5mm ²
Labels:	Duty and tag labels available
Cable Entries:	Up to 3 x M20 via knockouts

Ordering Requirements The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

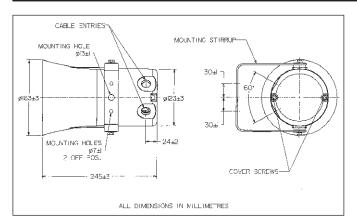
Unit Type		Voltag	ge
Туре	Details	Voltage	Code
DB12 DB12P	Standard Unit Two Stage (DC only)	12V DC 24V DC 115/230V AC	012 024 115

Labels
N

Color
N



Up to 30 Watts



Tone Selection:

DB15:	27 user selectable tones available.	
DB15P (Two stage unit):	Additional 5 tones may be programmed. Switchable between any two of the 27 tones by either: (i) Reversing the polarity of the supply, or (ii) by a 3 wire common +ve system, switching between the two -ve lines. Note: Two stage unit available in <u>DC</u> versions (DB15P) only.	

AFNOR NF S 32 001 compliant version available-contact sales office.

Material:	- DB15 Unit Body & horn in UV stable, glass reinforced polyester Swivel bracket in stainless steel Cover screws in stainless steel			
Finish:	Body and horn, natural gray to RAL 7035 or epoxy paint coated to client's color requirements			
Sound Output:	DB15 117dE	B(A) maxim	num	
Volume Control:	Integral volu	me contro		
	*Nominal (dBa		Input Current (mA)	
	10	0	150	
	10	-	250	
	10	-	350	
	11	-	450	
	11:	2	550	
	*Output measured with 24V input voltage. Tone set to 970H continuous.			
Weight:	• • •		ent on model	
Temperature Range:	-55°C to +7	0°C		
Ingress Protection:	IP66 and IP6	67		
Voltage:	Up to 48V DC Up to 254V AC		54V AC	
Current	V			
Consumption:	12V DC	900mA		
	24V DC	600mA		
	48V DC	280mA		
	110V AC	150mA		
	120V AC	175mA		
	220V AC	93mA		
	240V AC	86mA		
	254V AC	80mA		
Terminals:	4 x 2.5mm ² (AC), 6 x 2.5mm ² (DC)			
Earth Continuity:	Available			
Mounting:	Stainless ste	el bracket	with ratchet facility	
Labels:	Duty and tag labels optional			
	2 x M20 ISO			

Ordering Requirements The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box. <u>5</u>S

Unit Type	
DB15 DB15P	
DDIO	

Voltage	!
Voltage	Code
12V DC	012
24V-48V DC	048
*110V AC	110
*120V AC	120
*240V AC	240
*DB15P not ava	ailable
in AC version.	

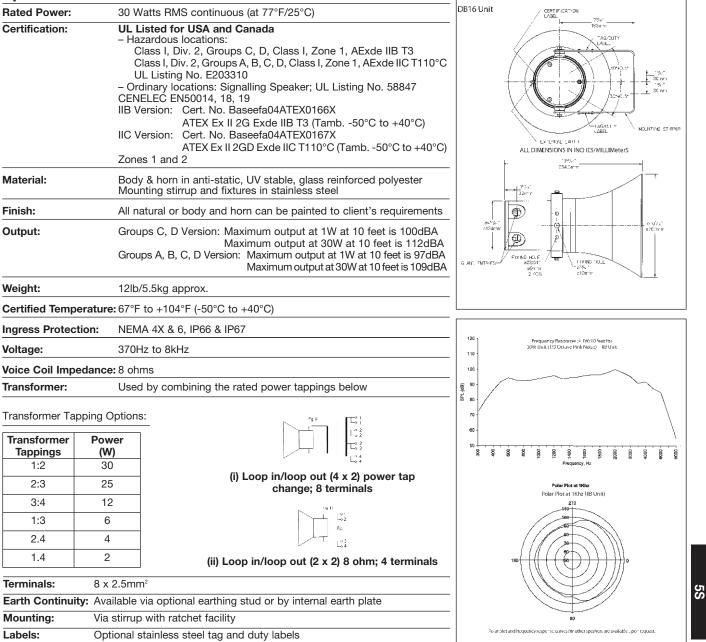
Options	5
N	





Up to 30 Watts

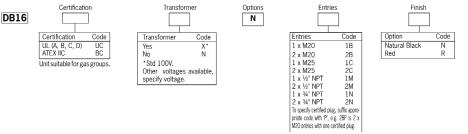
Specification – DB16 Unit



Cable Entries: Up to 2 x 1/2" NPT or 2 x 3/4" NPT into termination chamber, 20mm, 25mm

Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.





ETH Flex•Tone[™] Series Signaling Devices

Electronic Signals

Cl. I, Div. 1 & 2, Groups B, C, D Cl. II, Div. 1 & 2, Groups E, F, G CI. III UL and cUL 464 and 1203 listed Explosionproof Dust-Ignitionproof Raintight Wet Locations

Cooper Crouse-Hinds Flex•Tone Series Electronic Signals are explosionproof, heavy-duty, tone-selectable signaling devices capable of producing volume-controlled, high-decibel tones. Certified for use in Class I, Division 1, Group B, C, and D applications, the Flex•Tone Series is ideal for signaling warning or emergency conditions.

The Flex•Tone ETH855 accepts up to two contact closures and delivers two audible output signals selected from 55 available tones. The two tones are selected by setting miniature switches within the unit. One of the tones can be assigned a priority status to override the other tone.

The Flex•Tone ETHD855 is diode polarized for applications requiring electrical supervision of signaling circuit field wiring. The signal delivers one audible output signal selected from the 55 tones available.

Applications:

• For use where a high-decibel sound is required for alert or evacuation in hazardous locations.

Features and Benefits:

- · Heavy-duty zinc cast construction.
- 55 tone capacity no additional tone modules needed.
- Internal volume control with internal potentiometer.
- · Corrosion-resistant heat-flowed epoxy finish.
- Supplied with factory sealed 1/2" threaded fitting for guick installation.
- Speaker can swivel 180° vertically or horizontally depending on orientation of mounting bracket.
- · Mounts onto any surface using only three bolts.

20 - 31VDC

• 30" numbered wire leads.



Explosionproof Electronic Signal Stand - Alone Unit

Certifications and Compliances:

- Class I, Division 1, Groups B, C, D
- · Class II, Division 1, Groups E, F, G
- Class III
- UL and cUL 464 and 1203 Listed

Materials and Finishes:

- · Body Heavy-duty zinc cast construction
- External hardware Stainless steel

Ratings:

- 24VDC, 36VDC, 125VDC, 250VDC, 24VAC, 120VAC and 240VAC (ETH)
- 20 31VDC (ETHD)

0.950

Output Sound Pressure:

• 109 decibel (dBA) output

Ordering Information:

Cat. #	Voltage	Signal OFF Standby Current (Amps)	Signal ON Operating Current (Amps)				
Explosionproof,	Two Output						
ETH855/24	24VDC	0.061	0.250				
ETH855/36	36VDC	0.077	0.380				
ETH655/24	24VAC, 50 / 60Hz	0.250	0.950				
ETH655/120	120VAC	0.088	0.260				
ETH655/240	240VAC	0.091	0.190				
ETH855/125	125VDC	0.031	0.130				
ETH855/250	250VDC	0.019	0.070				
Diode Polarized, Explosionproof, Single Output For Fire Alarm Applications							

0.061

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Meets min. 75 dBA for fire alarm indication ETHD855/24

ETH Flex•Tone[™] Series Signaling Devices

Remote Speaker / Amplifier

Cl. I, Div. 1 & 2, Groups B, C, D Cl. II, Div. 1 & 2, Groups E, F, G Cl. III UL and cUL 464 and 1203 listed Explosionproof Dust-Ignitionproof Raintight Wet Locations

Cooper Crouse-Hinds **Flex•Tone Series Explosionproof Remote Speaker/Amplifier** is designed for remote mounting in Division 1 areas where simultaneous high-decibel signaling is required.

Used in connection with the Panel Control Signaling Generator, the **Flex•Tone ETH845** operates directly from local power sources, allowing remote speaker/amplifiers of different voltages to be connected within the same system. Available in both AC and DC voltages, the Flex•Tone can be mixed and matched throughout an application using the available line power.

ETH845 Series Remote Speaker/Amplifiers must be used with Cooper Crouse-Hinds Flex•Tone Panel Control Signal Generator on next page.

Applications:

• For use where simultaneous signaling of a high-decibel sound is required for alert or evacuation in hazardous locations.

Features and Benefits:

- Heavy-duty zinc cast construction.
- Individual volume control.
- Corrosion-resistant heat-flowed epoxy finish.
- Supplied with factory sealed 1/2" threaded fitting for quick installation.
- Speaker can swivel 180° vertically or horizontally depending on orientation of mounting bracket.
- Mounts onto any surface using only three bolts.
- 30" numbered wire leads.



Explosionproof Remote Speaker/Amplifier

Certifications and Compliances:

- Class I, Division 1, Groups B, C, D
- Class II, Division 1, Groups E, F, G
- Class III
- UL and cUL 464 and 1203 Listed

Materials and Finishes:

- Body Heavy-duty zinc cast construction
- External hardware Stainless steel

Ratings:

• 120VAC, 240VAC, 125VDC and 250VDC

Output Sound Pressure:

• 109 decibel (dBA) output

Ordering Information:

Cat. #	Signal OFF Voltage Standby Current (Amps)		Signal ON Operating Current (Amps)
Explosionproof F	Remote Speaker/Amp		
ETH845/24	24VDC	0.061	0.250
ETH645/24	24VAC, 50/60Hz	0.250	0.950
ETH645/120	120VAC	0.088	0.260
ETH645/240	240VAC	0.091	0.190
ETH845/125	125VDC	0.031	0.130
ETH845/250	250VDC	0.091	0.070

ETH845 Series Remote Speaker/Amplifiers must be used with Cooper Crouse-Hinds Flex•Tone Panel Control Signal Generator on next page. ETH845 Series Remote Speaker/Amplifiers accept a 10VAC audio signal from Flex•Tone Panel Control Signal Generator.



ETH Flex•Tone[™] Series Signaling Devices

Control Signal Generator

Cooper Crouse-Hinds Flex•Tone Series Panel Control Signal Generator controls and initiates a synchronous signaling sound from all Flex•Tone 3 Remote Speaker/Amps installed in a system. The Panel Control Signal Generator is mounted in a Division 2 area, while controlling the Flex•Tone 3 Speaker/Amps that are remotely mounted in Division 1 areas.

The Panel Control Signal Generator produces 27 sounds. Four tones may be activated from field-wired, normally open contacts, or a 24VDC or 120VAC external voltage source such as an output from a PLC.

Applications:

- · Hazardous area applications calling for high-decibel output with simultaneous signal delivery over all speakers installed in a system
- Emergency warning systems, plant evacuation alarms, security intrusion alarms, process monitoring, shift start and dismissal horns, and paging signals

Features and Benefits:

- 27 tone capability no additional tone modules needed.
- · Centralized programmable tone selection.
- · PLC compatible.
- · System-wide priority tone.
- 24 VDC battery back-up terminals.
- · Short circuit protected.

Ordering Information:

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Cl. I, Div. 2, Groups A, B, C, D

Cl. II, Div. 2, Groups F, G

CI. III

Certifications and Compliances:

- Class I, Division 2, Groups A, B, C, D
- · Class II, Division 2, Groups F, G
- Class III
- UL 464 and 1604 Listed
- cUL C22.2 No. 205
- CE Marked CENELEC LV and EMC Directives
- NEMA 3R, IP44

Materials and Finishes:

• Zinc-cast construction with an epoxy powder coat finish

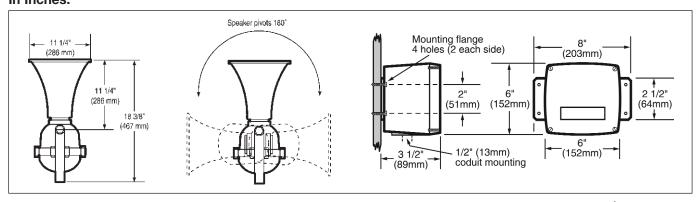
Ratings:

· See table below

•				
0-+ #	Valtana	Input Card	Signal OFF	Signal ON
Cat. #	Voltage	Activation Voltage	Standby Current (Amps)	Operating Current (Amps)
Panel Control Signal Ge	nerator			
ETH840/24E74	24VDC	24VDC	0.10	0.74
ETH640/24E13	24VAC, 50/60Hz	24VDC	0.10	1.30
ETH640/120E36	120VAC, 50/60Hz	24VDC	0.10	0.36
ETH640/120M38	120VAC, 50/60Hz	120VAC	0.10	0.38
ETH640/120E32	120VAC, 50/60Hz	24VDC	0.10	0.32
ETH640/240E20	240VAC, 50/60Hz	24VDC	0.10	0.20
ETH840/125E21	125VDC	24VDC	0.10	0.21
ETH840/250E10	250VDC	24VDC	0.02	0.10
ETH640/120M31	120VAC, 50/60Hz	120VAC	0.10	0.31
ETH640/240M20	240VAC, 50/60Hz	120VAC	0.10	0.20
ETH840/125M20	125VDC	120VAC	0.10	0.20
ETH840/250M10	250VDC	120VAC	0.02	0.10
ETH640/120R31	120VAC, 50/60Hz	RS485	0.10	0.31
ETH640/240R20	240VAC, 50/60Hz	RS485	0.10	0.20
ETH840/125R20	125VDC	RS485	0.10	0.20
ETH840/250R10	250VDC	RS485	0.02	0.10

Flex•Tone Panel Control Signal Generator must be used with Cooper Crouse-Hinds ETH845 Remote Speaker/Amps on previous page.

Dimensions In Inches:







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ETH Horn Signals

Factory Sealed

Cl. I, Div. 1 & 2, Groups B†, C, D Cl. II, Div. 1, Groups E, F, G Cl. II, Div. 2, Groups F, G Cl. III NEMA 7B†CD, 9EFG Explosionproof Dust-Ignitionproof Raintight Wet Locations

Applications:

ETH horn signals are used:

- · For call signals, alarms, and various other signalling applications
- In specific hazardous atmospheres as found in chemical plants, oil and gas refineries, bulk loading stations, paint and varnish manufacturing plants, grain processing industries and grain elevators, as well as in certain metal, coal, combustible fiber processing or handling areas
- In conduit systems and mounted on a flat surface with the projectors aimed in the desired direction

Features:

- No external conduit seal is required.
- The AC signals do not have arcing contacts.
- The DC horns have factory sealed wire leads in the interconnecting nipple and hub.
- The body cover joint of AC horn signals is of serrated construction, machined to close tolerance to ensure flametightness and secured by a clamping ring. The DC unit has a ground joint design.

Certifications and Compliances:

- NEC:
 - Class I, Division 1 & 2, Groups B⁺, C, D Class II, Division 1, Groups E, F, G Class II, Division 2, Groups F, G Class III
- UL Standard: 464, 1203
- CSA Standard: C22.2 No. 30

Standard Materials:

Copper-free aluminum

Standard Finishes:

Natural

Size Ranges:

Hub – ¹/₂" or ³/₄" size

Sound Levels:

• See Ordering Information table for individual ratings

Electrical Rating Ranges:

Nominal voltage – 24, 115, 230 VAC 24 VDC



ETH grill type horn signal

Table 1

Operating Current in Amperes at the Nominal Voltage for Horn and Siren Signals

Horn Signal

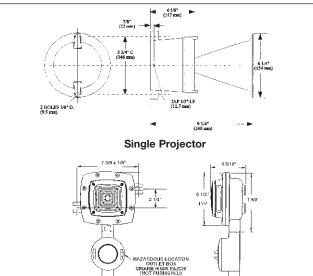
	Amperes		
	Single Projector	Grill Type	
Nom. Volts	50 to 60 hertz AC ETH2702, ETH2703	50 to 60 hertz AC ETH2313, ETH2316, ETH2312	DC ETH2416
24 115 230	45 .2	0.625 0.13 0.065	0.16

Ordering Information:

Supply	Nom. Volts*	Nom. Watts	Minimum audibility rating (dB) at 10':	Hub Size	Cat. #
Single Pro	jector Ho	rn Signal			
50 to 60 hertz AC	115 230	33 33	105 dB 105 dB	1/2 1/2	ETH2703 ETH2702
Grill Type	Horn Sigr	nals			
50 to 60 hertz AC	24 115 230	49	100 dB 100 dB 100 dB	3/4 3/4 3/4	ETH2316 ETH2313 ETH2312
DC	24	30	100 dB	3/4	ETH2416

Dimensions

In Inches:



Grill Type

+Grill type horns are certified for Group B. * See Table 1 for more complete ratings



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W2H Signaling Devices

Cl. I, Div. 2, Groups A, B, D Cl. II, Div. 2, Group G NEMA 3, 7ABCD (Div. 2), 9G (Div. 2) Raintight

Dust-tight Wet Locations

Applications:

W2H series signaling devices are used:

- · As independent audible signal or warning devices
- In Class I, Division 2, Groups A, B, C, D hazardous areas where flammable vapors or gases may be present due to accidental or abnormal operation
- In Class II, Division 2, Group G hazardous areas where combustible dusts may be present due to accidental or abnormal operation

Features:

- The W2H is solid-state, compact, rugged but lightweight. The system is programmable, which allows the convenience of tone selection, without the need for separate tone modules. Each unit can be programmed for any one of four different tones (whoop, wail, hi-lo and horn), by wiring to the corresponding terminal on the unit's terminal strip. Separate sound modules not required.
- Unit may be field wired for multiple signal selection by manual or automatic control.
- 180° speaker rotation allows flexibility in direction of sound.
- Corrosion-resistant conformal coating protects the printed circuit and other interior components.

Certifications and Compliances:

- UL: Standard 886
- NEC: Class I, Division 2, Groups A, B, C, D Class II, Division 2, Group G
- NEMA 3, 7ABCD Division 2, 9G Division 2

Standard Materials:

- Body die-cast aluminum
- Projector spun aluminum
- Hardware stainless steel

Standard Finishes:

- Body and projector gray hammertone enamel
- Stainless steel natural

Sound Levels:

• Minimum audibility rating (dB) at 10': W2H Series - 93dB



Signal Selection:

e-gae							
Signal Terminal	Sound Description	Audible Frequency	Repetition Rate				
#4 Whoop	Ascending low to high, repeated	Low tone – 400 Hz High tone – 850 Hz	48 cy/min. 48 cy/min.				
#5 Wail	Conventional Siren	400 – 1100 Hz	24 cy/min.				
#6 Hi-Lo	Alternating Hi-Lo	Low tone – 650 Hz High tone – 850 Hz	24 cy/min. 24 cy/min.				
#7 Horn	Steady	630 Hz	Continuous				

Electrical Rating Ranges:

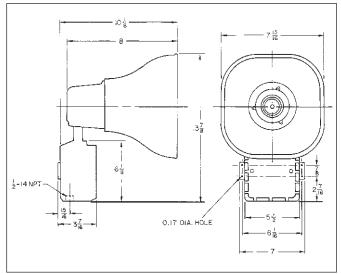
• Nominal voltage - 24, 120, 240 AC; 60 Hz 24 DC

Ordering Information - Normal Power

Nominal Voltage	Operating Current	Standby Current	Cat. #
24VDC	0.55A	0.06A	W2H840
24VAC	1.25A	0.13A	W2H640
120VAC	0.27A	0.03A	W2H620
240VAC	0.15A	0.02A	W2H660

Dimensions

In Inches:



Dimensions are approximate, not for construction purposes.

WH Vibrating Horn Signals

Weather Resistant

Applications:

WH vibrating horn signals are used:

- For code or call signals, or as a general alarm in a signal system that might involve hours of continuous operation
- In non-hazardous atmospheres of industrial areas such as warehouses, yards, exteriors of buildings, and in-plant areas
- Mounted on walls or other flat surfaces with projectors aimed in a desired direction

Features:

• The joint between the body and horn assembly is gasketed for raintightness

Certifications and Compliances:

• UL Standard: 464

Standard Materials:

• Copper-free aluminum and die cast zinc

Standard Finishes:

• Gray hammertone enamel

Capacity Ranges:

 Minimum audibility rating (dB) at 10': AC – 87 decibels

Electrical Rating Ranges:

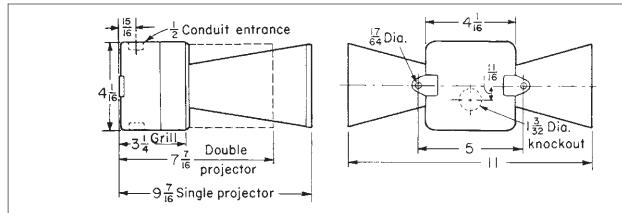
- Nominal voltage
 120 AC, 50 / 60 hertz
- Operating characteristics Voltage range +10%, -20% Nominal watts - 18 VA on 120 VAC

Ordering Information

Voltage	Nominal Voltage	Grill Cat #	Single Projector Cat. #	Double Projector Cat. #
.15	120 AC 50 to 60 Hz	WH13503	WH13513	WH13523

Dimensions

In Inches:



Dimensions are approximate, not for construction purposes.





WH with grill

WH with single projector



WH with double projector

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ESR Bell Signals

Factory Sealed

Cl. I, Div. 1 & 2, Groups B, C, D Cl. II, Div. 1, Groups E, F, G Cl. II, Div. 2, Groups F, G Cl. III Explosionproof Dust-Ignitionproof Raintight Wet Locations

Applications:

ESR bell signals are used:

- · For call signals, alarms, or in various other signalling applications
- In specific hazardous atmospheres such as in chemical plants, oil and gas refineries, bulk loading stations, paint and varnish manufacturing plants, grain processing industries and grain elevators, as well as in certain metal, coal, combustible fiber processing or handling areas
- In conduit systems, and mounted on a vertical flat surface with the striker at the bottom

Features:

- The conduit hub contains an integral bushing.
- The body cover assembly permits the location of a hub at the top, bottom or either side (the striker must be located at the bottom for proper operation).
- There are no external seals required except when used in Group B hazardous areas.
- The AC signal does not have arcing contacts.
- Binding screw terminals are provided in AC signals for supply conductors.
- A vibrating or single stroke striker mechanism is furnished with 6 or 10 inch diameter gongs.

Certifications and Compliances:

Standard Units:

- NEC/CEC:
 - Class I, Division 1 & 2, Groups C, D Class II, Division 1, Groups E, F, G Class II, Division 2, Groups F, G Class III

NEMA/EEMAC: 7CD, 9EFG

- UL Standard: 464, 1203
- CSA Standard: C22.2 No. 30

Group B Units:

- NEC/CEC:
 - Class I, Division 1 & 2, Groups B, C, D Class II, Division 1, Groups E, F, G Class II, Division 2, Groups F, G Class III

NEMA/EEMAC: 7BCD, 9EFG

- UL Standard: 464, 1203
- CSA Standard: C22.2 No. 30

Standard Materials:

- Body *Feraloy*[®] iron alloy
- Cover copper-free aluminum
- Junction box body – Feraloy iron alloy cover – copper-free aluminum
- Gong steel

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Standard Finishes:

- Feraloy iron alloy electrogalvanized and aluminum acrylic paint
- Aluminum naturalSteel gray matte



Size Ranges:

• Hub – one 3/4" size

Sound Levels:

• See Table 1 below for individual ratings

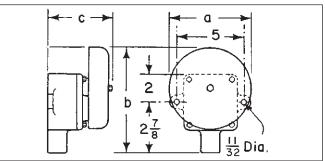
Electrical Rating Ranges:

Nominal voltage – 12, 24, 48, 115, 230 AC

See Table 1 for complete ratings.

Dimensions

In Inches:



Dimensions are approximate, not for construction purposes.

Dia. Gong	а	b	с	
6	6	63/4	5 ¹ / ₄	
10	10	103/4	6	

Table 1

Operating Current in Amperes at the Nominal Voltage For Bell Signals

Nom. Volts	Amperes All Vibrating 25 to 60 Hz AC	All Single Stroke 50 to 60 Hz AC
12	1.67	1.75
24	.53	.62
48	.44	.41
115	.189	.189
230	.092	.086



ESR Bell Signals

Factory Sealed

Cl. I, Div. 1 & 2, Groups B, C, D Cl. II, Div. 1, Groups E, F, G Cl. II, Div. 2, Groups F, G Cl. III Explosionproof Dust-Ignitionproof Raintight Wet Locations

					Vibrating Hammer (25 to 60 hertz)		Minimum audibility	Single Stroke Hammer	Minimum audibility
Hub Size	Supply	Nom. Volts	Voltage Range	Dia. Bell	Standard Units Cat. #	Group B Units‡ Cat. #	rating (dB) at 10':	(50 to 60 hertz) Cat. #	rating (dB) at 10':
		12	9.6 to 13.2		ESR2675	ESR2675 GB	67	ESR2665	64
		24	19.2 to 26.4		ESR2674	ESR2674 GB	82	ESR2664	64
		48	38.4 to 52.8	6	ESR2673	ESR2673 GB	88	ESR2663	67
		115	92 to 126.5		ESR2672	ESR2672 GB	88	ESR2662	67
		230	184 to 253		ESR2671	ESR2671 GB	85	ESR2661	67
3/4	AC								
		12	9.6 to 13.2		ESR2615	ESR2615 GB	82	ESR2625	64
		24	19.2 to 26.4		ESR2614	ESR2614 GB	85	ESR2624	64
		48	38.4 to 52.8	10	ESR2613	ESR2613 GB	85	ESR2623	67
		115	92 to 126.5		ESR2612	ESR2612 GB	91	ESR2622	67
		230	184 to 253		ESR2611	ESR2611 GB	85	ESR2621	67

 \ddagger Install seal within $1^{1\!/_{\!2} "}$ of conduit opening.



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Combination Visual & Audible Signaling Devices

Hazardous

Description	Page No.
Combination Units - MEDC Series	
DB3/SM87	see pages 1254-1255
DB3/XB11	see pages 1254-1255
DB12/XB13	see pages 1254-1255



Visual and Audible Combination Units

Hazardous Locations Weatherproof

Truly a unique product offering with integral visual and audible signaling devices pre-wired for simultaneous output activation.

MEDC Series

- Suitable for Class I, Division 2 applications
- Strobe light and audible tone generator in one package
- · Mounts with ease and facilitates quick field wiring
- UL, cUL, Ex and ATEX for worldwide acceptance

This range of lightweight all GRP, explosionproof horns intended for use in potentially explosive atmospheres has been designed with high ingress protection to cope with the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

The flamepaths, flare, and body are manufactured completely from a UV stable glass reinforced polyester. Stainless steel screws and sinter are incorporated thus ensuring a corrosion-free product. A tapered flamepath is used to overcome the problems of assembly of parallel spigot flamepaths.

Features and Benefits:

- All GRP corrosion-free
- Up to 108dBA output at 10 feet
- Integral volume control
- 27 tones, user selectable
- Horn/Strobe Combination Unit available

Certifications and Compliances:

- UL Listed for USA and Canada Hazardous locations: Class I, Div. 2, Groups A, B, C, D Class I, Zones 1 & 2, AExd IIC T4
 - Ordinary locations: Audible Signal device
- ATEX approved
- NEMA 4X & 6, IP66 & 67
- Certified temperature
 - –67°F to +158°F –55°C to +70°C



Horn/Strobe Combination Unit

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Visual and Audible Combination Units

MEDC Series

Visual & Audible Combination Units—Hazardous Locations, Weatherproof								
Certification	Voltage	Lens/Body Color	Ordering Code	Cat. #	Standard Product Configuration			
ATEX Ex II 2GD	24V DC	Red/Red	803130	DB3/XB11B24V RED/RED	DB3/XB11, Exd IIB T5, choice of 27 tones, 115dB(A) at 1m output, 29 Cd, no labels, 1 x M20 entry			
UL, cUL Listed, Class I, Div. 2, Groups C, D	24V DC	Red/Natural Black	869200	DB3/XB11UL24V RED/NB	DR2/VD11_CDD meterial NEMA 4X % 6			
UL, cUL Listed, Class I, Div. 2, Groups C, D	24V DC	Red/Red	869205	DB3/XB11UL24V RED/RED	DB3/XB11, GRP material, NEMA 4X & 6, choice of 27 tones, 106dB(A) at 10 feet output, 29 Cd, no labels, 1 x ½" NPT entries			
UL, cUL Listed, Class I, Div. 2, Groups C, D	110V AC	Red/Red	869210	DB3/XB11UL110V RED/RED				



Certification	Voltage	Lens/Body Color	Ordering Code	Cat. #	Standard Product Configuration
UL, cUL Listed, Class I, Div. 1, Groups C, D	24V DC	Red/Red	62500182	DB1P/SM87HXBUL 24V RED/RED	24V DC, alloy sounder, interconnected to, painted red stainless steel baseplate, alloy 5 joule beacon
UL, cUL Listed, Class I, Div. 2, Groups C, D	24V DC	Red/Red	62500183	DB3/SM87HXBUL 24V RED/RED	GRP sounder interconnected to, painted red stainless steel baseplate, alloy 5 joule beacon



Certification	Voltage	Lens/Body Color	Ordering Code	Cat. #	Standard Product Configuration
Ex II 2GD	24V DC	Red/Red	62500009	DB12/XB13 24V RED/RED	IP66 & 67 weatherproof only, 24V DC, GRP sounder interconnected to, on a painted red stainless steel baseplate, a IP66 & 67 weatherproof only, GRP 10 joule beacon



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