



EX-AUDIO/VISUAL-SIGNALLING: INFORMATION FOR YOUR SAFETY

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SIGNALLING IN HAZARDOUS AREAS

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Visual and Audible Signalling Devices as tough as your environment.

Why Cooper Crouse-Hinds?

- The broadest line of harsh and hazardous signalling, alarm and communication products available in both IEC and NEC designs and certifications.
- A new line of hazardous area call points (fire alarm or emergency notification devices) provides you a unique product offering unequalled by any other manufacturer of hazardous location signalling 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 signalling product offering integral visual and audible signalling capability pre-wired for simultaneous output activation.
- A new line of heat detectors for early indication of potential processing problems.

Applications Include:

Petrochemical Facilities
Manufacturing Areas
Waste Water Treatment
Food Processing Facilities
Paper and Pulp Operations
Pharmaceutical Manufacturing

ALARM, SIGNAL AND CONTROLL EQUIPMENT FOR HAZARDOUS AREAS

A powerful Member of the Cooper Group: MEDC Ltd.



Designers and manufacturers of Alarm, Signal and Control Equipment since 1975, MEDC have developed a range of 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.

MEDC are renowned throughout the world for their exacting quality standards and reliability as **a leading manufacturer of Explosion Proof Equipment**.

MEDC has also recently developed a range of equipment for use in industrial, marine, commercial and leisure applications.

MEDC specialises in custom finished products to specific requirements. The full product range totals over 100 items, all of which are appropriately certified to internationally recognised standards, eg **ATEX/CENELEC, UL, CSA, FM, SGS, GOST R & K, SAA, Chinese (CQST), PTB**.

MEDC holds the **International Quality Assurance Standard, ISO9001**, which covers all company activities from design and development, to manufacture, sales and after sales service.

In addition to the above certification, MEDC products have **approval from The Ministry of Defence, British Gas and UK Coal Mining**.

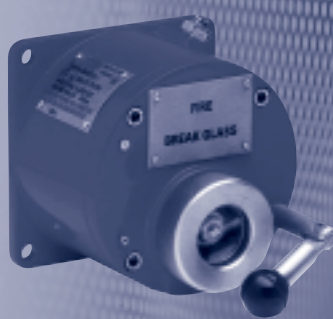
- International Certifications
ATEX/CENELEC, UL, CSA, FM, GOST R & K, SAA, Chinese (CQST), PTB
- Highest degree of protection
IP66/IP67

For more detailed information please visit the web-side: **www.medc.com** or contact your local MEDC representative.

EX - MANUAL CALL POINTS

Explosion protected units for Zone 0, 1, 2, 22, Class I and Div 1 & 2

The BG3 manual fire alarm call point is designed in accordance with the latest draft European Call Point Standard (EN54-11). Weatherproof to IP66 and IP67 and available certified intrinsically safe, simple apparatus or uncertified, the units are manufactured from glass reinforced polyester (GRP) which provides a robust, corrosion free construction and ensures effective and reliable operation in harsh industrial and offshore environments. Units are supplied in self coloured GRP or painted to customer specification. The BG3 'Burning House' duty label is provided as standard, other duty and tag labels may be supplied to customer specification.



- Zone 0, 1, 2, 21 and Zone 22 use
- Chinese (CQST) certified
- Designed in accordance with EN54-11
- IP66 and IP67
- Certified temperature -55°C to +55°C
- Corrosion free GRP
- Optional in line/end of line resistors/diodes
- Optional LED indicator
- Optional lift flap
- Optional flush installation
- Optional glass substitute element
- Key operated test facility
- Various body colours available



BG2 E/I

Technical data

Type BG2 E/I

EC-Type Examination Certificate	BG2 E	BAS 02 ATEX 2105 X
	BG2 I	Baseefa 03 ATEX 0084 X
Marking to 94/9/EC	BG2 E	⚡ II 2G/D EEx edm IIC T4 T135 °C ⚡ II 2G/D EEx ed IIC T6 T85 °C
	BG2 I	⚡ II 1G/D EEx ia IIC T4 T135 °C
Enclosure material		U.V. resistant glass-fibre reinforced polyester
Finish		Self coloured red
Optional indicator		A red high intensity LED can be fitted for alarm indication
Rated voltage	BG2 E	up to 250 V (switch only)/up to 24 V (resist. + switch)
	BG2 I	up to 28 V (IS)
Rated current only BG 2E		DC 0- 30 V: 5 A (resistive)/3 A (inductive)
		DC 30- 50 V: 1 A
		AC 0-250 V: 5 A
Circuits		Switch only / End of Line Resistor/Diode In Line Resistor/Diode / In Line & End of Line Resistor/Diode
Entries		2 x M20 bottom
Weight		1.2 kg
Rated terminal cross section		6 x 2.5 mm ²
Protection category to EN 60529		IP66/IP67
Permissible ambient temperature		-20 °C to +50 °C (BG2 E) / -40 °C to +50 °C (BG2 I)
Resistor values		470 Ω min./39 kΩ max. (DC and IS only)

Ordering details

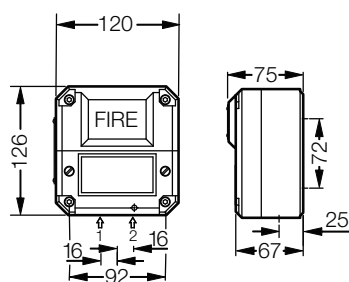
Catalogue No.	Certification	Description	Ordering Code
BG2EDC1N	ATEX Ex II 2GD	Explosion protected, Zone 0, 1 & 2, DC, 2 x M20 bottom entries, single break glass switch latching, red finish	PX 800004
BG2INN1N	ATEX Ex II 1GD	Explosion protected, Zone 0, 1 & 2, DC, 2 x M20 bottom entries, single break glass switch latching, red finish	PX 800005

Ordering options*

Unit Type	Model	Code	Wiring Diagram	Code	Lift Flap	Code	Finish	Code
BG2	BG2W – AC or DC	BG2WNN	Switch only	1	Fitted	F	Natural red	N
	BG2I – Up to 28 V (I.S.)	BG2INN	End of line resistor	2	Not fitted	N	Red Painted	R
	BG2E – DC	BG2EDC	In line resistor	3				
	BG2E – AC	BG2EAC	In line and end of line resistor	4				
			Diode (specify location & value)	5				

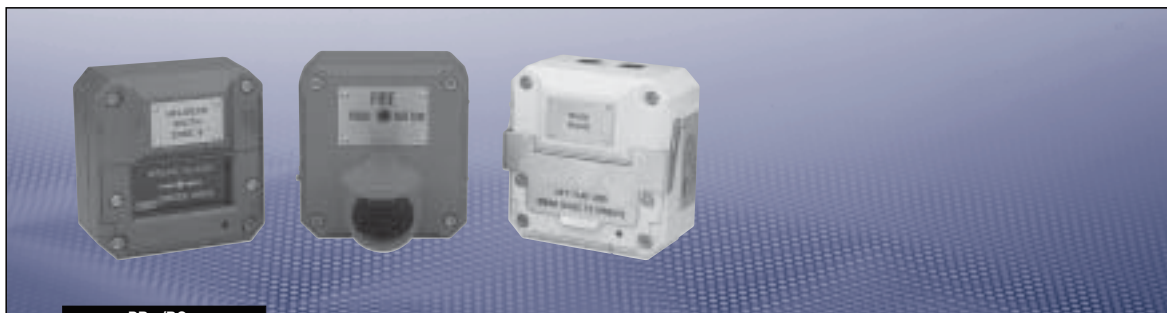
* For more options see www.medc.com or contact your local representative

Dimension drawing



BG2 E/I

Dimensions in mm



PB.../BG...

Technical data

Type BGE, PBE, BGI, PBI, BGUL, PBUL

Enclosure material	anti static U.V. resistant glass reinforced polyester
Finish	Red epoxy painted finish as standard
Optional indicator	A red high intensity LED can be fitted to indicate operation on versions up to 24 V and all "IS" versions
Rated current only BG/PB E	DC 0- 30 V: 5 A (resistive)/3 A (inductive) DC 30- 50 V: 1 A / AC 0-250 V: 5 A
Circuits	single changeover or double changeover
Entries	Up to 4 entries, M16 or M20 top and bottom / 1/2" NPT
Weight	1.2 kg (varies with model & entries)
Rated terminal cross section	7 x 2.5 mm ² /9 x 2.5 mm ² optional u to 60 V only
Protection category to EN 60529	IP66/IP67
Resistor values	Various configurations available on versions up to 24 V and all "IS" versions (min. value 470 Ω)

Type BGE, PBE

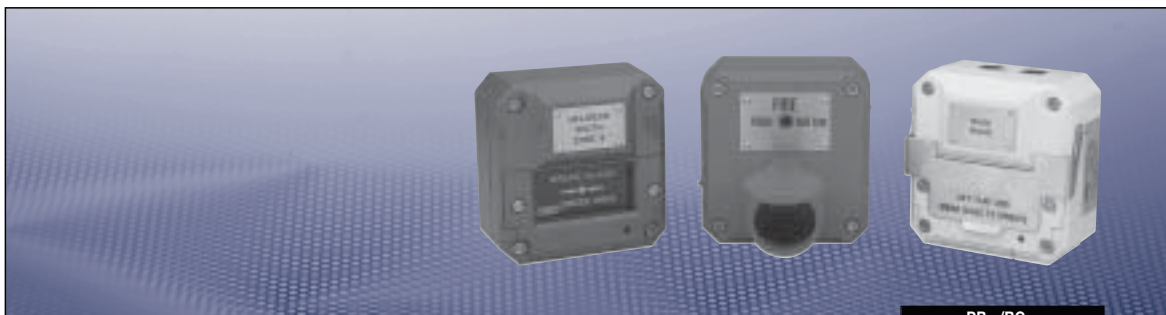
EC-Type Examination Certificate	BAS 02 ATEX 2105 X
Marking to 94/9/EC	⊕ II 2G/D EEx edm IIC T4 T135 °C (switch only) ⊕ II 2G/D EEx ed IIC T6 T85 °C (other versions)
GOST 'R' Certification	Ex edm IIC T6 (switch only) / Ex edm IIC T4 (other version) Russian Fire Approved (VNIPO)
Chinese Certification	CQST Ex ed IIC T6 (switch only) / CQST Ex edm IIC T4 (other versions)
Rated voltage	up to 250 V
Permissible ambient temperature	-20 °C to +50 °C

Type BGI, PBI

EC-Type Examination Certificate	BAS 03 ATEX 0084 X
Marking to 94/9/EC	⊕ II 1G/D EEx ia IIC T4 T135 °C
CSA Certification to C22.2 (PBI only)	Nos. 0-M, 0.4-M, 25, 30-M, 94, 142-M1987, 157-M1987, 157-92, Enclosure Type 4, T4A Class I Groups A, B, C & D
Cert. No.	79120
GOST 'R' Certification (PBI & BGI)	Ex ia IIC Russian Fire Approved (VNIPO)
GOST 'K' Certification (PBI only)	Ex ia IIC T4
Chinese Certification (PBI & BGI)	CQST - Ex ia IIC T4
Rated voltage	up to 28 V (IS)
Permissible ambient temperature	ATEX -40 °C to +70 °C (PBI) ⊕ ATEX -40 °C to +50 °C (BGI) CSA -50 °C to +40 °C (PBI only)

Type BGUL, PBUL

UL-Listed	Class I, Div 2, Groups A-D
Listing No.	E186629
Rated voltage	up to 240 V
Permissible ambient temperature	-25 °C to +55 °C



PB.../BG...

Ordering details

Catalogue No.	Certification	Description	Ordering Code
BGEB4B6B1DSN6R	ATEX Ex II 2GD	Explosion protected Ex II 2GD, EExed, IIC, T6, Zone 1 & 2, DC, 2 x M20 bottom entries, single break glass switch latching, red finish	PX 800003
BGIB4B6B1DSN6R	ATEX Ex II 1GD	Explosion protected, Zone 0, 1 & 2, DC, 2 x M20 bottom entries, single break glass switch latching, single switch, red finish	PX 800002
BGUL4C6C1DSN6R	UL Listed, Class I, Div 2, Groups A, B, C, D, Zone 2	Explosion protected, 2 x 1/2" NPT bottom entries, single break glass switch latching, painted red GRP finish	PX 869101

Ordering options*

Unit Type	Certification	Code	Entries	Code	Labels	Code	Switches	Code	Features	Code	Terminals	Code	Finish	Code
BG	ATEX – EExe	EB	16 mm	A³⁾	None	0	Single		None	N	7 x 2.5 mm ²	7	Red	
PB	ATEX – EExi	IB	20 mm	B³⁾	Glass label	1	change-over		LED	A	9 x 2.5 mm ²	9	(Standard)	R
	CSA – Exi (PBI only)	IC	1/2" NPT	C³⁾	Glass label	2	over	S³⁾	Lift flap (BG only)	B			Natural	
	UL – Class I, Div 2	UL			Glass label	3	Double		Resistor Series	C⁴⁾			Black	N
	GOST 'R' ¹⁾ – Exi	IG			Duty label reqd.	4	change-over	D³⁾	Resistor EOL	D⁴⁾			Blue	B
	GOST 'R' ¹⁾ – Exe	EG			Tag label	5			Diode†	E			Yellow	Y
	GOST 'K' – Exi (PBI only)	IK							Earth Continuity	F			Grey	G
	Chinese – Exe	EQ							Turn & Push (PB only)	T			Yellow/Black	
	Chinese – Exi	IQ							Self reset (PB only)	M			Stripes	X
									Resistor Series & EOL †	S⁴⁾			Other specify	S
									Plastic element replaces Break glass	P				

* For more options see www.medic.com or contact your local representative

¹⁾ VNIPO approved as standard.

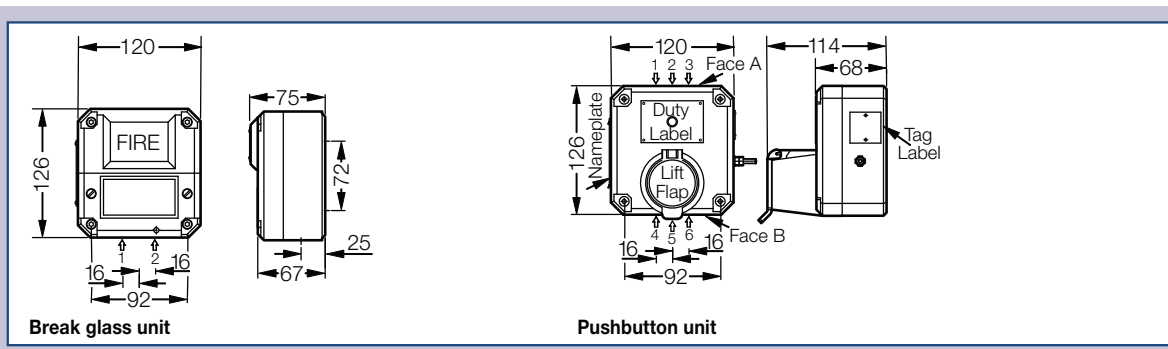
²⁾ Prefix entry size (see diagram above) with entry position code e.g. 1A, 2A. UL & CSA versions only available with 1/2" NPT entries.

³⁾ Prefix with voltage A for A.C. – D for D.C. except for BGI.

⁴⁾ Specify values

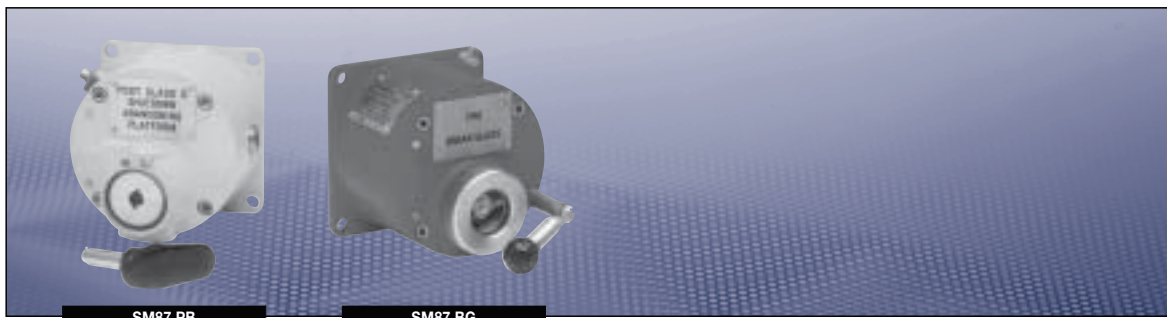
† Not available for UL/CSA

Dimension drawing



Dimensions in mm

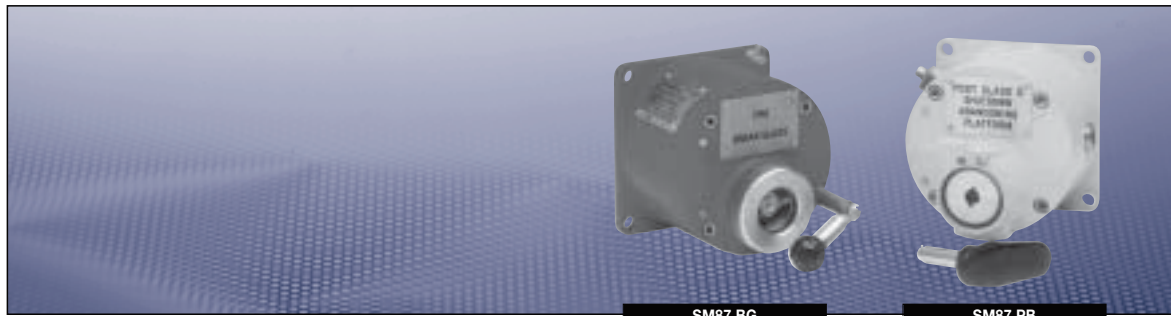
Ex-Break glass/PB call point



Technical data

SM87 BG SM87 PB		
EC-Type Examination Certificate	EEx "i"	Baseefa 02 ATEX 0152 X
	EEx "d"	Baseefa 03 ATEX 0075
Marking to 94/9/EC	EEx "i"	II 1G EEx ia IIC T4
	EEx "d"	II 2G/D EEx d IIC T5/T6
UL listed		Class I, Div 1 Groups C & D (PBL only)
Listing No.		186629
CSA Certification		Class I Groups A-D (I.S. version only PBI)
		Class I, Div 1 & 2, Group D (Ex-d PB, BG only)
GOST 'R' Certification		1 Ex ib IIC T4 / 1 Ex d IIC T4 / Russian Fire Approved (VNIPO)
GOST 'K' Certification		Ex ib IIC T4
Chinese Certification CQST		Ex ia IIC T4 / Ex d IIC T5/T6
Enclosure material		Grade 316 ANC4B Stainless Steel or LM 25 TF Marine Grade Alloy
Finish		Epoxy paint finish as standard or to customer's specification
Optional indicator		A red high intensity LED can be fitted for alarm indication
Rated voltage		EEx d: 24 V AC/DC / EEx i: 28 V
Rated current		2 A
Switches		2 pole c/o wired to terminals, optional up to 4 pole
Entries		up to 4 x 20 mm or 25 mm ISO / up to 4 x 1/2" or 3/4" NPT
Weight		3.8 kg (steel) / 2.5 kg (alloy)
Rated terminal cross section		2 – 5 mm ²
Protection category to EN 60529		IP66/IP67/IP68 (SM87 PB)
Insulation class		I
Permissible ambient temperature	EEx d/Ex-i*	-55 °C to +70 °C
	LED version*	-20 °C to +55 °C
	UL	-55 °C to +70 °C
	UL LED version	-20 °C to +55 °C
	CSA Exd	-50 °C to +55 °C
	CSA Exe	-50 °C to +40 °C
Resistor values		470 Ω minimum (DC and IS only)

* includes ATEX, GOST and Chinese



Ordering details

Catalogue No.	Certification	Description	Ordering Code
SM87BGLAD1B1NNR	ATEX Ex II 2GD	Break glass call point, Ex II 2GD, EExd IIC T6, IP66 & 67, 1 x M20 bottom entries, duty label, "Fire Breakglass", alloy material, red finish	PX 16200174
SM87PBLAUL3T3B3NNR	UL, CSA, Class I, Div 1, Groups C & D, Zone 1	Explosion protected, 2 x 1/2" NPT entries, duty label "Fire-Press Here", single push button switch-latching, marine grade alloy, red finish	PX 36200102

Ordering options*

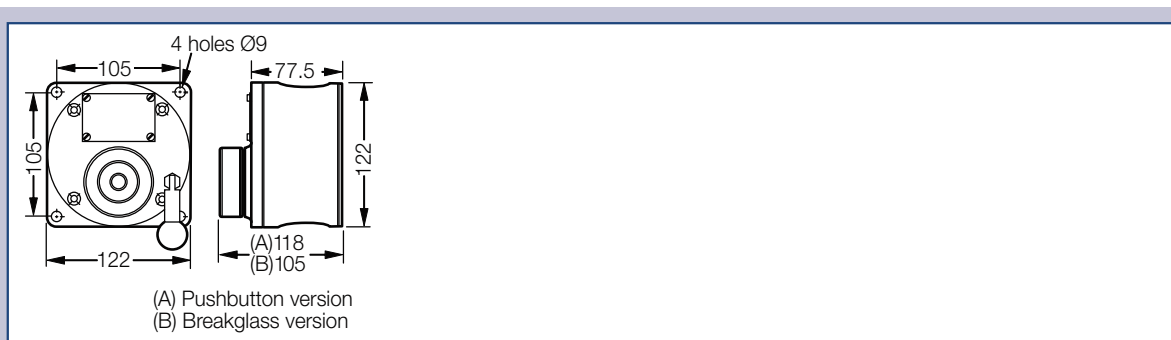
Unit Type	Model	Code	Material Code	Cert.	Code	Entries	Code	Duty label	Code	Tag label	Code	Features Code	Finish	Code
SM 87	Breakglass unit, latching	BGL	SS 316 S Alloy A	EEx ia IIC T4 I EEx d IIC T6 D		20 mm 1 25 mm 2		Fire-Break-glass 1		required Y not required N		Not required N LED A Resistor G Series G Resistor G EOL H Diode D ²⁾ 3 pole c/o switch T 4 pole c/o switch F	Red R Blue B Yellow Y Yellow/ Black Stripes X Special Finish S	
	Lift flap			UL	UL	1/2" NPT 3		Push-Button 2						
	Breakglass latching	LBGL		CSA - Exd DC CSA - Exi IC		3/4" NPT 4 Top T ¹⁾ Bottom B ¹⁾		Button 3						
	Push Button			GOST 'K' Exi IK		Bottom B ¹⁾		Fire-push Button 4						
	Latching			GOST 'R' Exi IG		RHS R ¹⁾ LHS L ¹⁾		Button 4						
	key reset	PBL		GOST 'R' Exd DG				Other O						
	Push Button			Chinese Exi IQ				None N						
	self reset	PBM		Chinese Exd DQ										

¹⁾ prefix position with size code (1T, 1B, 1R, 1L) i.e. 1T 1B = 20 mm Top and Bottom

²⁾ Specify values

* For more options see www.medc.com or contact your local representative

Dimension drawing



Dimensions in mm

Ex-Break glass call point



BG3

Technical data

BG3

EC-Type Examination Certificate	BAS 00 ATEX 1067X
Marking to 94/9/EC	II 1G EEx ia IIC T4
Chinese Certification	CQST Ex ia IIC T4
Enclosure material	UV resistant glass reinforced polyester
Finish	Natural Red GRP or painted*
Optional indicator	A red high intensity LED can be fitted to indicate operation on versions up to 24 V and all "IS" versions
Rated voltage	up to 28 V (IS)
Entries	2 x M20 bottom
Weight	0.5 kg
Rated terminal cross section	6 x 4.0 mm ²
Protection category to EN 60529	IP66/IP67
Permissible ambient temperature	-55 °C to +55 °C (BGE)
Resistor values	470 Ω min.



BG3

Ordering details

Catalogue No.	Certification	Description	Ordering Code
BG3I1NBN	ATEX Ex II 1G	Explosion protected, Zone 0, 1 & 2, DC, standard models are surface mount version, have 2 x M20 bottom entries, single break glass switch latching, duty label "Burning House", red GRP finish	PX 800007

Ordering options*

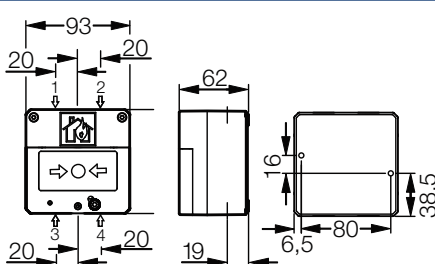
Model	Certification	Code	Labels type ¹⁾	Code	Features	Code	Entries	Code	Body colour	Code
BG3I	EEx ia CQST	I Q	Fire break glass		None	N	2 x 20 mm		Natural Red*	N
			"Press here"	1	Resistor series	S	(bottom)	B ²⁾	Red Paint	R
			Break glass		Resistor EOL	E	2 x 20 mm		Blue	B
			"Press here"	2	Diode	D	(top)	T ²⁾	Green	G
			Special	3	Polycarbonat Lift Lap	F			White	W
			European		Stainless steel Lift Lap	C			Yellow	Y
			Standard (draft)		LED	L			Special	S
			⇐○⇐	4	Double changeover	T				
			Duty label (special)		Flush Mounting (weatherproof only)	M				
			(Burning house )		Plastic Element					
			as standard)	5	(replaces break glass)	P				
			Tag label	6						

³⁾ Specify wording on '3', '5' & '6'

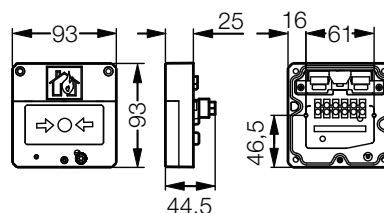
²⁾ For blanking plugs add "P" to code.

* For more options see www.medc.com or contact your local representative

Dimension drawing



Surface mount unit



Panel/flush mount unit

Dimensions in mm

E X - S T A T U S L A M P S

Explosion protected units for Zone 0, 1, 2 and 22

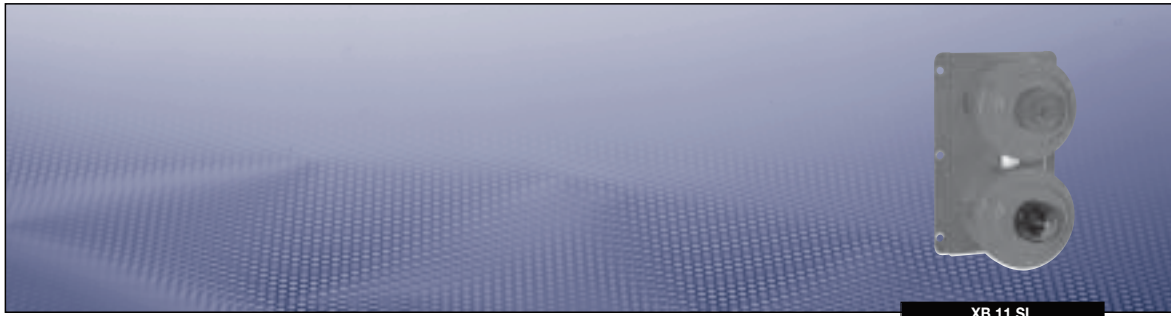
These ranges of versatile status lights have been designed to suit various offshore and onshore applications. Available as LED, xenon, filament and fluorescent beacons. The SM87 SL range is manufactured in marine grade alloy and the XB11/XB 12 SL in corrosion-free GRP to provide a wide range of status lights to suit clients' requirements. All units can be supplied as 1, 2, 3, 4 or 5 way.

A long life, high intensity, LED version is now available.

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- Zone 1 and Zone 2 use
- BASEEFA certified
- UL listed for USA and Canada –
Class I, Div. 1 & 2, Groups C & D. –
Class I, Zone 1, AExd IIB T6
- CSA certified
- GOST 'R' & 'K' certified
- Chinese (CQST) certified
- IP66 & 67
- Certified temperature –55°C to +70°C
- LED, xenon, fluorescent, filament
- Marine grade alloy or GRP
- Close-coupled and pre-wired to
customer's requirements



XB 11 SL

Technical data

XB 11 SL Range	
EC-Type Examination Certificate	BAS 99 ATEX 2195X
Marking to 94/9/EC	Ex II 2G/D EEx d IIB T*
UL Listed for USA and Canada	Class I, Div 2, Groups C & D / Class I, Zones 1 & 2
Listing No.	E187894
Chinese Certified	Ex d IIB T5/T6
Enclosure material	UV stable, glass reinforced polyester
Finish	Natural Black or Epoxy paint to customers specification
Lens	Glass
Lamp types	Xenon 5 joules maximum Fluorescent 10 W or 5 W Filament 10 W maximum
Rated voltage	Xenon 24 V DC/110, 240 V AC Filament Voltages 24, 48 V DC/110, 220, 240, 254 V AC Fluorescent Voltages 24 V DC, 240 V AC
Lamp Colours	Red, amber, yellow, green, blue or clear
Light module	1 to 5 ways
Entries	1 x M20
Rated terminal cross section	max. 2.5 mm ²
Protection category to EN 60529	IP66/IP67
Insulation class	I
Permissible ambient temperature	-55 °C to +70 °C

* see table below

Ordering details

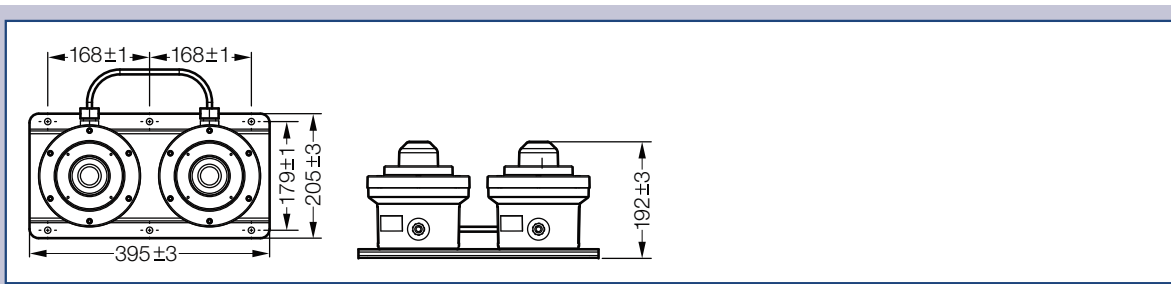
Catalogue No.	Certification	Description	Ordering Code
XB11SL3	UL Listed, Class I, Div 2, Groups C & D	Explosion protected, 3 stack, one 1/2" NPT entry on bottom, 24V DC, green incandescent on top, yellow xenon flashing in middle, red xenon flashing on bottom, no lens guards, red finish	PX 42500005

Temperature classifications

Type ...	Lamp	Ambient temperature		Temperature Classification (G/D) at Tamb.		
		-55 °C	-20 °C	+40 °C	+55 °C	+70 °C
XB11SL	Filament	X	X	T6/T 85 °C	T5/T 100 °C	—
XB11SL	Fluorescent	—	X	T5/T 100 °C	T4/T 135 °C	—
XB11SL	Xenon	X	X	T6/T 85 °C	T5/T 100 °C	T4/T 135 °C

* For more options see www.medc.com or contact your local representative

Dimension drawing



Dimensions in mm

Ex-Status lamps



SM87 SL

Technical data

SM87 SL	
EC-Type Examination Certificate	Baseefa 03 ATEX 0222X
Marking to 94/9/EC	II 2G/D EEx d IIC T*
UL Listed	Class I, Div 1, Groups C & D Class I, Zone 1, AExd IIB T6
Listing No.	E187894
CSA Certified	Class I, Div 1
GOST 'R' & 'K'	Certified – Zones 1 & 2 IP66 & 67
NEMA	4 x 6
Enclosure material	LM 25 TF Marine Grade Alloy
Finish	Epoxy paint finish as standard or to customer's specification
Lens	Glass
Lamp types	Xenon 5 joules maximum Fluorescent 10 W or 5 W Filament 40 W maximum
Rated voltage	Xenon 24, 48 V DC/110, 120, 240, 254 V AC Filament Voltages 12, 24, 48 V DC/110, 220, 240, 254 V AC Fluorescent Voltages 12, 24, 48 V, 220, 240, 254 V AC
Lamp Colours	Red, amber, yellow, green, blue or clear
Light module	1 to 5 ways
Entries	Up to 3 x M20 or M25 / 3 x 1/2" or 3/4" NPT
Rated terminal cross section	max. 2.5 mm ²
Protection category to EN 60529	IP66/IP67
Permissible ambient temperature	LED and fluorescent -25 °C to +55 °C* Xenon & filament -55 °C to +70 °C

* see table below

Temperature classifications

Type	Lamp	Voltage	Watts	Temperature Classification (G/D) at Tamb. -25 °C to +... °C		
				+40 °C	+55 °C	+70 °C
SM 87 SL	Filament	240 AC	48	T4/T 135 °C	T3/T 200 °C	–
SM 87 SL	Fluorescent	254 AC				
		240 AC	10	T5/T 100 °C	T4/T 135 °C	–
		110/120 AC		T6/T 85 °C	T5/T 100 °C	–
		12, 24, 48 DC	5		T6/T 85 °C	–
SM 87 SL	Xenon	110, 240, 254 AC				
		12, 24, 30, 48 DC	11	T6/T 85 °C	T4/T 135 °C	T4/T 135 °C



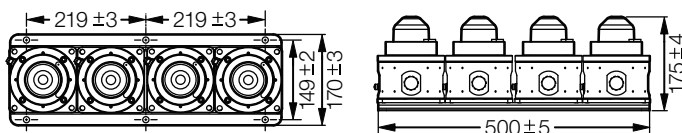
SM87 SL

Ordering details

Catalogue No.	Certification	Description	Ordering Code
SM87SL2	UL, cUL Listed, Class I, Div 1, Groups C & D	Xenon status lamp, two stack 5 joule beacons interconnected on a painted red stainless steel baseplate, one red and one green lens color, one 1/2" NPT entry in the bottom unit for customer connection	PX 26200055
SM87SL2	UL, cUL Listed, Class I, Div 1, Groups C & D	Incandescent status lamp, two stack 40 watt beacons interconnected on a painted red stainless steel baseplate, one red and one green lens color, one 1/2" NPT entry in the bottom unit for customer connection	PX 26200056
SM87SL2	UL, cUL Listed, Class I, Div 1, Groups C & D	Fluorescent status lamp, two stack 5 watt beacons interconnected on a painted red stainless steel baseplate, one red and one green lens color, one 1/2" NPT entry in the bottom unit for customer connection	PX 26200057
SM87SL2	UL, cUL Listed, Class I, Div 1, Groups C & D	Xenon status lamp, two stack 5 joule beacons interconnected on a painted red stainless steel baseplate, one red and one green lens color, one 1/2" NPT entry in the bottom unit for customer connection	PX 26200058
SM87SL3	UL, cUL Listed, Class I, Div 1, Groups C & D	Explosion protected, 3 stack, one 1/2" NPT entry on bottom, no lens guards, xenon strobe with red, green, and clear lens	PX 26200043
SM87SL3	UL, cUL Listed, Class I, Div 1, Groups C & D	Xenon status lamp, three stack 5 joule beacons interconnected on a painted red stainless steel baseplate, one red, one amber and one green lens color, one 1/2" NPT entry in the bottom unit for customer connection	PX 26200059
SM87SL3	UL, cUL Listed, Class I, Div 1, Groups C & D	Incandescent status lamp, three stack 40 watt beacons interconnected on a painted red stainless steel baseplate, one red, one amber and one green lens color, one 1/2" NPT entry in the bottom unit for customer connection	PX 26200060
SM87SL3	UL, cUL Listed, Class I, Div 1, Groups C & D	Fluorescent status lamp, three stack 5 watt beacons interconnected on a painted red stainless steel baseplate, one red, one amber and one green lens color, one 1/2" NPT entry in the bottom unit for customer connection	PX 26200061
SM87SL3	UL, cUL Listed, Class I, Div 1, Groups C & D	Xenon status lamp, three stack 5 joule beacons interconnected on a painted red stainless steel baseplate, one red, one amber and one green lens color, one 1/2" NPT entry in the bottom unit for customer connection	PX 26200062
SM87SL3	UL, cUL Listed, Class I, Div 1, Groups C & D	Fluorescent status lamp, three stack 5 watt beacons interconnected on a painted red stainless steel baseplate, one red, one amber and one green lens color, one 1/2" NPT entry in the bottom unit for customer connection	PX 26200063

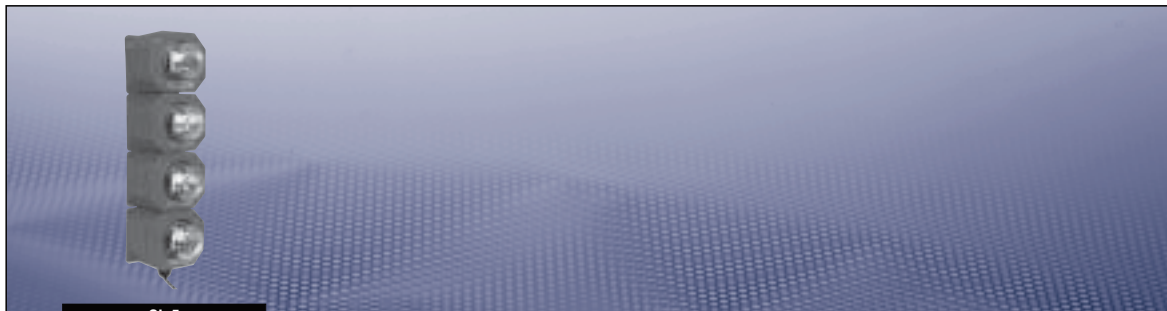
* For more options see www.medic.com or contact your local representative

Dimension drawing



Dimensions in mm

Ex-Status lamps



SL 5

Technical data

SL 5		
EC-Type Examination Certificate	BAS 02 ATEX 2108X	
Marking to 94/9/EC	II 2G EEx e*	
Chinese (CQST)	Exem II T4, LED	
	Exe II T3, Filament	
	Exem II T4, Xenon	
Enclosure material	UV stable, glass reinforced polyester	
Finish	Body natural black or painted to client specifications	
Lens	Polycarbonate	
Lamp types	Xenon 1 joules maximum / Fluorescent 2 x 5 W	
	Filament 400 W maximum	
Rated voltage	Xenon	24, 48 V DC
	Filament Voltages	12, 24, 48 V DC/110, 220, 240, 254, 260 V AC
	LED	12, 24 V AC
Lamp Colours	Filament and Xenon	Red, amber, yellow, green, blue or clear
	LED	Red, amber or green
Light module	1 to 5 ways	
Entries	max. 2 x M16 or M20/max. 1 x M20/M32	
Rated terminal cross section	max. 12 x 4 mm ² /16 x 2.5 mm ²	
Protection category to EN 60529	IP66/IP67	
Insulation class	I	
Permissible ambient temperature	LED	-40 °C to +45 °C*
	Xenon & filament	-40 °C to +55 °C

* see table temperature classifications page 4.17



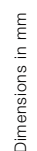
Type	Lamp	Voltage	Watts	Temperature Classification (G/D) at Tamb. -25 °C to +... °C		
				+40 °C	+55 °C	+70 °C
SL 5	Filament	240 AC	48	T4/T 135 °C	T3/T 200 °C	–
SL 5	Fluorescent	254 AC				
		240 AC	10	T5/T 100 °C	T4/T 135 °C	–
		110/120 AC		T6/T 85 °C	T5/T 100 °C	–
		12, 24, 48 DC	5		T6/T 85 °C	–
SL 5	Xenon	24, 48 DC	11	T6/T 85 °C	T4/T 135 °C	T4/T 135 °C
SL 5	LED		4			
	LED blue	24, 48 DC	5, 6	T6/T 85 °C	T4/T 135 °C	–

Unit	Type	Code	Lamp Type	Position ¹⁾	Code	Voltage	Code	Cable	Code	Duty/Tag	Code	Finish	Code
			V	W				X		Y			
SL5	EExe(m)	E	Filament		1	12 V DC	012	M16	A ²⁾	Duty label	D ³⁾	Natural Black	N
	Chinese		Xenon		2	24 V DC	024	M20	B ²⁾	Tag	T ³⁾	Special	S ⁴⁾
	(CQST)	Q	LED		3	48 V DC	048	M25	C ²⁾	None	N ³⁾		
			LED flashing		4	110 V DC	110	M32	D ²⁾				
			Suffixed by colour required			220 V DC	220						
			Red		R	240 V AC	240						
			Amber		A	254 V AC	254						
			Yellow		Y	260 V AC	260						
			Blue		B								
			Green		G								
		Clear		C									

2R 2G 2Y -- --

4) Please specify

Dimension drawing



Ex-Status lamps

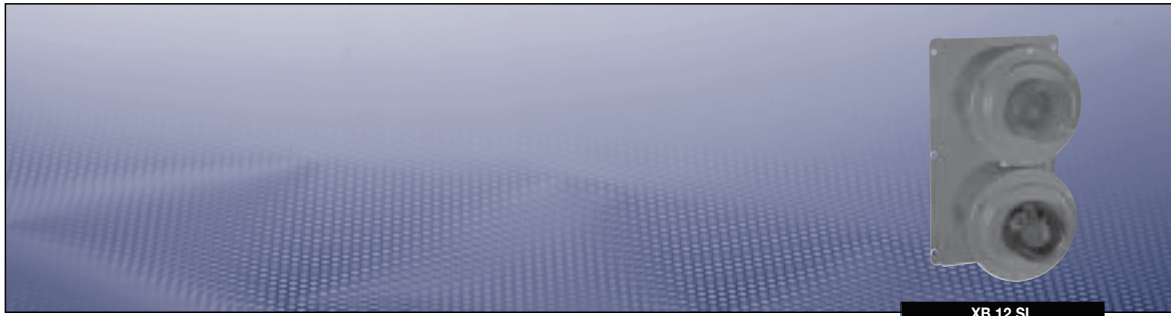


XB 12 SL

Technical data

XB 12 SL Range		
EC-Type Examination Certificate		BAS 99 ATEX 2196
Marking to 94/9/EC		II 2G EEx d IIB T*
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
Enclosure material		UV stable, glass reinforced polyester
Finish		Natural Black or Epoxy paint to customers specification
Lens		Glass
Lamp types		Xenon 21 joules maximum
		Filament 60 W maximum
Rated voltage	Xenon	24 V DC/110, 240 V AC
	Filament Voltages	110, 240 V AC
Lamp Colours		Red, amber, yellow, green, blue or clear
Light module		1 to 5 ways
Entries		2 x M20 / 1 x 1/2" NPT
Rated terminal cross section		max. 2.5 mm ²
Protection category to EN 60529		IP66/IP67
Insulation class		I
Permissible ambient temperature		-55 °C to +70 °C

* see table below



XB 12 SL

Ordering details

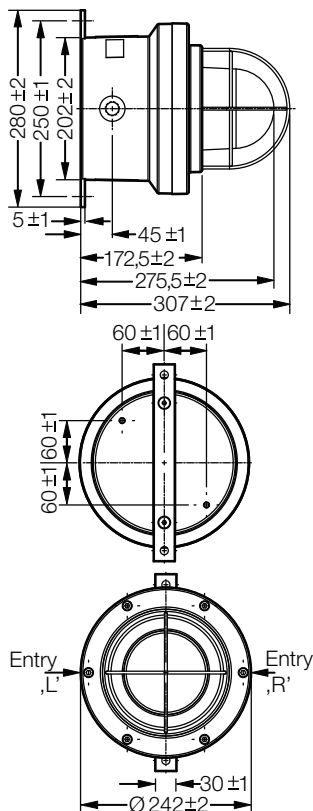
Catalogue No.	Certification	Description	Ordering Code
XB12SL2	UL Listed, Class I, Div 2, Groups C & D	24V DC xenon status lamp, two stack 21 joule beacons interconnected on a painted red stainless steel baseplate, one red and one green lens color, 1/2" NPT entry	PX 42600007
XB12SL3	UL Listed, Class I, Div 2, Groups C & D	110V AC, explosion protected, three stack, one 1/2" NPT entries, red xenon flashing on top, amber xenon flashing in middle, clear xenon flashing on bottom; no lens guards, red finish	PX 42600001
XB12SL3	UL Listed, Class I, Div 2, Groups C & D	24V DC xenon status lamp, three stack 21 joule beacons interconnected on a painted red stainless steel baseplate, one red, one amber and one green lens color, 1/2" NPT	PX 42600009

Temperature classifications

Type ...	Lamp	Ambient temperature		Temperature Classification (G/D) at Tamb.		
		-55 °C	-20 °C	+40 °C	+55 °C	+70 °C
XB12SL	Filament	X	X	T5	T4	—
XB12SL	Xenon	X	X	T5	T5	T4

* For more options see www.mec.com or contact your local representative

Dimension drawing



Dimensions in mm

EX - BEACONS AND STROBES

Explosion protected units for Zone 0, 1, 2, 22, Class I and Div 1 & 2

These certified beacons have been designed for use in harsh environmental conditions. The stainless steel or marine grade alloy enclosures are suitable for use offshore or onshore, where light weight combined with corrosion resistance and strength is required.

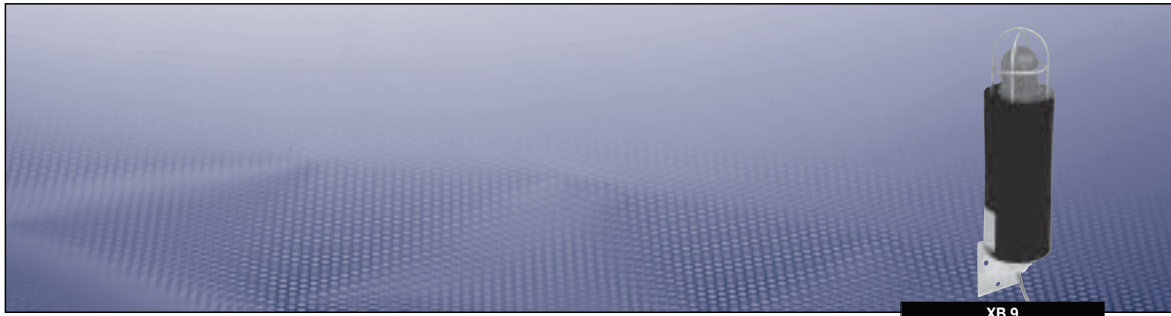
The glass reinforced polyester enclosures are suitable for use offshore or onshore, where light weight combined with corrosion resistance is required.

Units can be painted to customer specification and fitted with identification labels. LED version available, offering extended lifetimes.

Stainless Steel screws and mounting bracket are incorporated ensuring a totally corrosion free unit. Units can be painted to customer specification and supplied with identification labels.



- IP66 and IP67
- Certified Temperature -55°C to +55°C
- Corrosion Free GRP
- UL Listed for USA and Canada –
Hazardous locations: Class I, Div 1 & 2,
Groups C & D. Class I, Zones 1 & 2,
AExd IIB T4/T5. – Ordinary locations:
- Visual-Signal Device
- Australian (SAA) certified
- Chinese (CQST) certified
- NEMA 4x, & 6
- Various lens colours
- Optional lens guard
- Optional gland plus cable tail
- Stainless steel mounting
bracket on request
- Replaceable tube



XB 9

Technical data

XB 9	
EC-Type Examination Certificate	BAS 00 ATEX 2031
Marking to 94/9/EC	Ex II 2G/D EEx d IIC T5/T6 T100 °C/T 135 °C
Enclosure material	Corrosion-free GRP
Lens material	Thougened glass
Finish	Natural black or painted to customer specification
Rated voltage	12 - 48 V DC/110 - 254 V AC 50/60 Hz
Power consumption	DC 12 V 9 mA / DC 24 V 8 mA / DC 48 V 9 mA AC 110 V 11 mA / AC 240 V 15 mA / AC 254 V 15 mA
Flash rate	1 Hz
Entries	1 entry, M20
Weight	1.6 kg
Rated terminal cross section	3 x 2.5 mm ²
Protection category to EN 60529	IP66/IP67
Insulation class	I
Permissible ambient temperature	from -55 °C to +55 °C

Ordering details

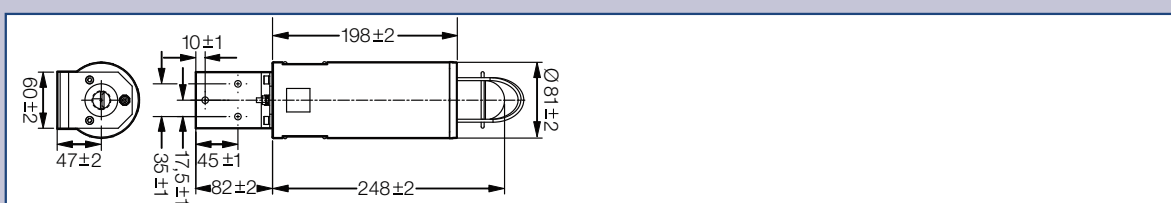
Catalogue No.	Certification	Description	Ordering Code
XB9D02406RYNCBN	ATEX Approved Ex II 2G, EExd, IIC, T5	5 joules, 24 V DC, red lens, lens guard, S/S mounting bracket, GRP body, 1 x M20 entry + 3 m cable, 60 flashes/min., no labels	PX 819105
XB9D02406AYNCBN	ATEX Approved Ex II 2G, EExd, IIC, T5	5 joules, 24 V DC, amber lens, lens guard, S/S mounting bracket, GRP body, 1 x M20 entry + 3 m cable, 60 flashes/min., no labels	PX 819106
XB9D24006RYNCBN	ATEX Approved Ex II 2G, EExd, IIC, T5	5 joules, 240 V DC, red lens, lens guard, S/S mounting bracket, GRP body, 1 x M20 entry + 3 m cable, 60 flashes/min., no labels	PX 819107
XB9D24006AYNCBN	ATEX Approved Ex II 2G, EExd, IIC, T5	5 joules, 240 V DC, amber lens, lens guard, S/S mounting bracket, GRP body, 1 x M20 entry + 3 m cable, 60 flashes/min., no labels	PX 819108

Ordering options*

Model	Voltage	Code	Flash rate	Code	Lens colour	Code	Lens guard	Code	Tag/Duty label	Code	Entries/cable tail	Code	Finish	Code
XB9D	DC 12 V	012	60/min.	06	Red	R	None	N	None	N	1 x M20	1B	Natural Black	N
	DC 24 V	024			Blue	B	Yes	Y	Yes	Y	1 x PG 13.5	1P	Red	R
	DC 48 V	048			Green	G					3 m cable	CB	Blue	B
	AC 110 V	110			Yellow	Y							Yellow	Y
	AC 240 V	240			Amber	A							Grey	G
	AC 254 V	254			Clear	C							White	W
													Special finish	S

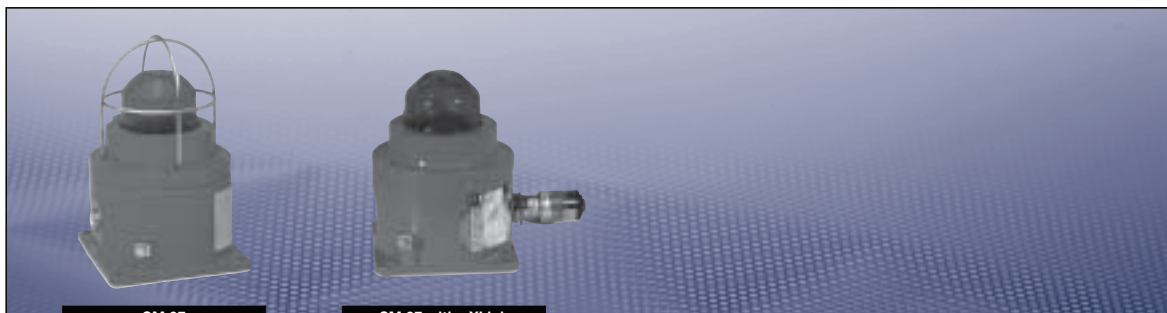
* For more options see www.medc.com or contact your local representative

Dimension drawing



Dimensions in mm

| Ex-5 joule flashing xenon |



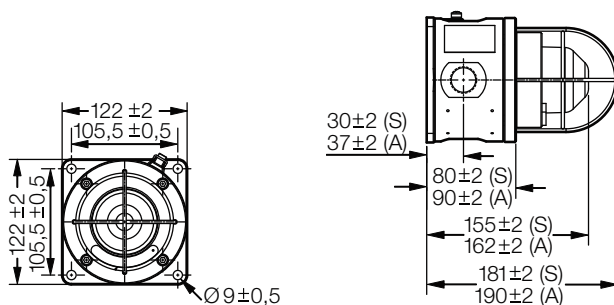
Technical data

SM 87

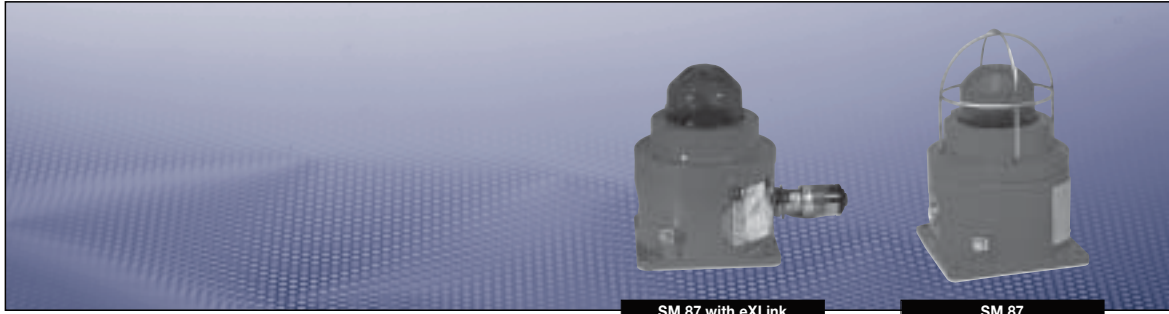
EC-Type Examination Certificate	Baseefa 03 ATEX 0222
Marking to 94/9/EC	II 2G/D EEx d IIC T4/T6 T85 °C/T 135 °C
CSA Certification to	C22.2 Nos. 0, 0.4, 0.5, 9, 30-M1986, 94-M91, 137-M-1981
	Class I, Div 1, Group D, Enclosure 3/4
Cert. No.	96406 (HXB only)
UL Listed for USA & Canada	Class I, Div 1, Groups C & D Class I, Zone 1 (HXB & XBT only)
Listing No.	E187894
GOST 'R' Certification	1Exd IIC T4 (HXB only) Russian Fire Approved (VNIPO)
GOST 'K' Certification	Exd IIC T4
Chinese (CQST) Certification	Exd IIC T4/T6 (HXB only)
Enclosure material	Marine Grade Alloy or Stainless Steel
Lens material	Glass*
Finish	Red epoxy painted finish as standard
Rated voltage	24 V - 48 V DC/110 - 254 V AC 50/60 Hz
Power consumption	DC 24 V 7.2 W / DC 48 V 7.6 W
tube 5 joule	AC 110 V 25 W / AC 120 V 27 W / AC 220 V 25 W AC 240 V 27 W / AC 254 V 35 W
Initiation	Telephone or relays initiated
Entries	up to 4 entries, M20 or M25 / up to 4 x 1/2" or 3/4" NPP
Rated terminal cross section	6 x 2.5 mm ²
Protection category to EN 60529	IP66/IP67
Insulation class	I
Permissible ambient temperature	ATEX HXB -55 °C to +70 °C LED -20 °C to +40 °C XBT (High temp.) -40 °C to +85 °C CSA Certified -50 °C to +40 °C UL HXB -55 °C to +70 °C XBT (High temp.) -40 °C to +85 °C GOST 'R' HXB -55 °C to +55 °C

* Optional with lens guard

Dimension drawing



Dimensions in mm



SM 87 with eXLink

SM 87

Ordering details

Catalogue No.	Certification	Description	Ordering Code
SM87HXBAB024AN1R1LNNR	ATEX EX II 2GD EEx d IIC	5 joules, 24 V DC, amber lens, 2 x M20 Entries, 29 Cd	PX 813006
SM87HXBAB024RN1R1LNNR	ATEX EX II 2GD EEx d IIC	5 joules, 24 V DC, red lens, 2 x M20 Entries, 29 Cd	PX 813005
SM87HXBAB240AN1R1LNNR	ATEX EX II 2GD EEx d IIC	7 joules, 240 V AC, amber lens, 2 x M20 Entries, 39 Cd	PX 813008
SM87HXBAB240RN1R1LNNR	ATEX EX II 2GD EEx d IIC	7 joules, 240 V AC, red lens, 2 x M20 Entries, 39 Cd	PX 813007
SM87LEDAB024RN1R1LNNR	ATEX EX II 2GD	24 V DC, red lens, 2 x M20 entries, 192 Cd	PX 813009
SM87HXBAB024AN3R3LNNR	UL, cUL Listed, Class I, Div 1, Groups C & D	Standard models are in alloy, red body color, no tag or duty labels, 2 x 1/2" NPT entries, 29 Cd	PX 869162
SM87HXBAB024RN3R3LNNR	UL, cUL Listed, Class I, Div 1, Groups C & D	Standard models are in alloy, red body color, no tag or duty labels, 24 V DC, red lens, 2 x 1/2" NPT entries, 29 Cd, 60 flashes per minute	PX 869161
SM87HXBAB110AN3R3LNNR	UL, cUL Listed, Class I, Div 1, Groups C & D	Standard models are in alloy, red body color, no tag or duty labels, 110 V AC, amber lens, 2 x 1/2" NPT entries, 32 Cd, AExd IIB	PX 869166
SM87HXBAB110RN3R3LNNR	UL, cUL Listed, Class I, Div 1, Groups C & D	Standard models are in alloy, red body color, no tag or duty labels, 110 V AC, red lens, 2 x 1/2" NPT entries, 32 Cd, AExd IIB	PX 869165

Ordering options*

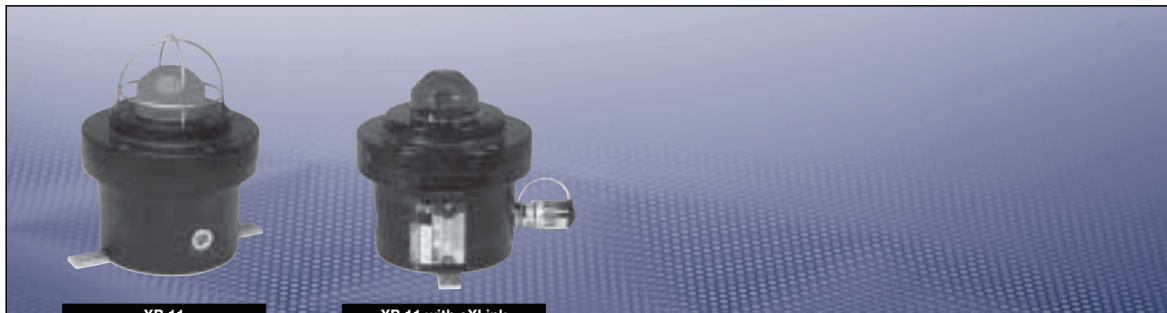
Model	Code	Certi- fication	Code	Voltage	Code	Lens colour	Code	Lens guard	Code	Entries	Code	Tag/ duty label	Code	Initiate Option	Code	Finish Code	
Xenon (stainless steel)	HXBS	ATEX UL	B UL	DC 24 V	024	Red	R	None	N	20 mm	1	None	N	Telephone	T	Red	R
		CSA	C	DC 48 V	048	Blue	B	Yes	Y	25 mm	2	Yes	Y	Relay	R	Blue	B
Xenon (alloy)	HXBA			AC 110 V	110	Green	G			1/2" NPT	3			EOL		Yellow	Y
Xenon High Temp. (alloy)	XBTA	GOST 'R' ¹⁾	G	AC 120 V	120	Amber	A			3/4" NPT	4			Resistor	E	Yellow/ stripe	X
Xenon High Temp. (stainless steel)	XBTS	GOST 'K'	K	AC 230 V	230	Yellow (not LED)	Y			Top	T²⁾			None	N	Black	
		Chinese (CQST)	Q	AC 240 V	240					Bottom	B²⁾					Grey	G
				AC 254 V	254	Clear (not LED)	C			RHS	R²⁾					White	W
										LHS	L²⁾					Special finish	S
LED EEx d (stainless steel)	LEDS																
LED EEx d (alloy)	LEDA																

¹⁾ Only HXBS is available CSA certified. Only HXBA & XBTA is available UL certified.

²⁾ Prefix position with entry size code. e.g. 1R1B = 20 mm Right and Bottom entries.

* For more options see www.medc.com or contact your local representative

Ex-5 joule flashing xenon



XB 11

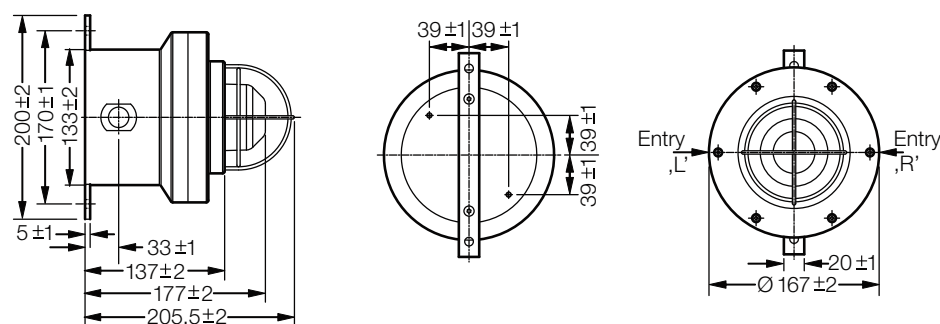
XB 11 with eXLink

Technical data

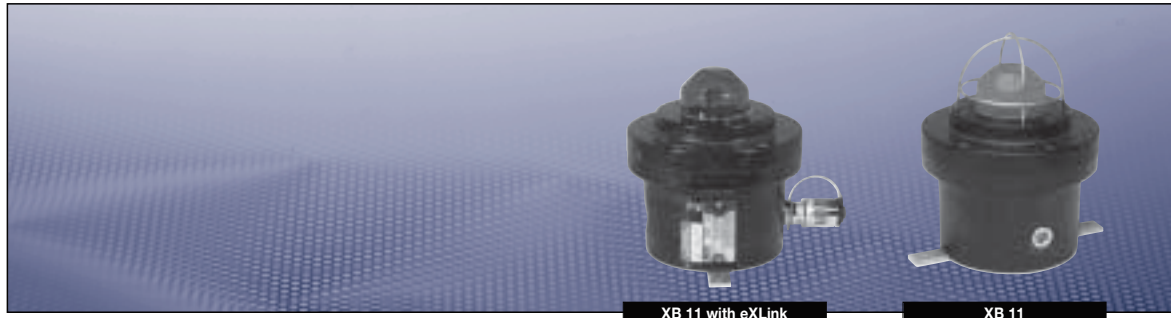
XB 11

EC-Type Examination Certificate	BAS 99 ATEX 2195X/3
Marking to 94/9/EC	II 2G/D EEx d IIB T4*
UL Listed for USA and Canada	Class I, Div 2, Groups C & D Class I, Zones 1 & 2 AExd IIB T4/T5
UL Listing No	E187894
GOST 'R' Certification	1Exd IIB T4/T5/T6
Chinese (CSQT) Certification	Exd IIB T5/T6
Enclosure material	Corrosion-free GRP
Lens material	Glass
Finish	Natural black or painted to customer specification
Rated voltage	24 V DC/110 - 240 V AC 50/60 Hz
Power consumption tube 5 joule	DC 24 V 8 W / AC 110 V 11 W / AC 240 V 18 W
Initiation	Optional telephone or relays initiated
Entries	up to 2 x M20 / up to 2 x 1/2" NPT
Weight	2.5 kg
Rated terminal cross section	6 x 2.5 mm ²
Protection category to EN 60529	IP66/IP67
Permissible ambient temperature*	T6 T85 °C: -55 °C to +40 °C T5 T100 °C: -55 °C to +55 °C T4 T135 °C: -55 °C to +70 °C

Dimension drawing



Dimensions in mm



Ordering details

Catalogue No.	Certification	Description	Ordering Code
XB11B02406ANBNNNN	ATEX EX II 2GD EEx d IIB	GRP, natural black body, no tag or duty labels, backstrap mounting, 24 V DC, amber lens 2 x M20 entries, 60 flashes per minute	PX 811102
XB11B02406RNBNNNN	ATEX EX II 2GD EEx d IIB	GRP, natural black body, no tag or duty labels, backstrap mounting, 240 AC, red lens, 2 x M20 entries, 60 flashes per minute	PX 811101
XB11B24006ANBNNNN	ATEX EX II 2GD EEx d IIB	GRP, natural black body, no tag or duty labels, backstrap mounting, 240 V AC, amber lens, 2 x M20 entries, 60 flashes per minute	PX 811104
XB11UL02406ANBNNNR	UL, cUL Listed, Class I, Div 2, Groups C & D	No tag or duty labels, , 24 V DC, amber lens, 2 x 1/2" NPT entries, 60 flashes per minute, black finish	PX 869172
XB11UL02406CNBNNNN	UL, cUL Listed, Class I, Div 2, Groups C & D	No tag or duty labels, 24 V DC, clear lens, 2 x 1/2" NPT entries, 60 flashes per minute, black finish	PX 869173
XB11UL02406CNBNNNR	UL, cUL Listed, Class I, Div 2, Groups C & D	No tag or duty labels, 24 V DC, clear lens, 2 x 1/2" NPT entries, 60 flashes per minute, red finish	PX 869174
XB11UL02406RNBNNNR	UL, cUL Listed, Class I, Div 2, Groups C & D	No tag or duty labels, 24 V DC, red lens, 2 x 1/2" NPT entries, 60 flashes per minute, red finish	PX 869171
XB11UL11006RNBNNNR	UL, cUL Listed, Class I, Div 2, Groups C & D	No tag or duty labels, 110 V AC, red lens, 2 x 1/2" NPT entries, 60 flashes per minute, red finish	PX 869175

Ordering options*

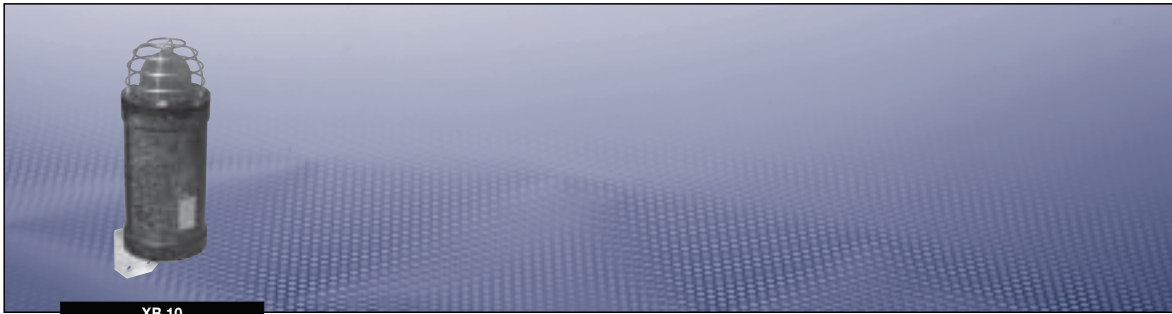
Model	Certification	Code	Voltage	Code	Flash rate	Code	Lens colour	Code	Lens guard	Code
XB11	ATEX	B	DC 24 V	024	60/min.	06	Red	R	None	N
	UL	UL	DC 48 V	048			Blue	B	Yes	Y
	ATEX/UL		AC 110 V	110			Green	G		
	Dual Listed	AU	AC 230 V	230			Amber	A		
	GOST 'R'	G	AC 240 V	240			Yellow	Y		
	Chinese (CQST)	Q					Clear	C		

Ordering options*

Unit fixing	Code	Earth continuity	Code	Tag/Duty label	Code	Options	Code	Finish	Code
Direct mounting	D	None	N	None	N	Telephone initiate	T	Natural Black	N
Backstrap	B	Yes	Y	Yes	Y	Blanking plug	P	Red	R
						None	N	Blue	B
								Yellow	Y
								Grey	G
								White	W
								Special finish	S

* For more options see www.medc.com or contact your local representative

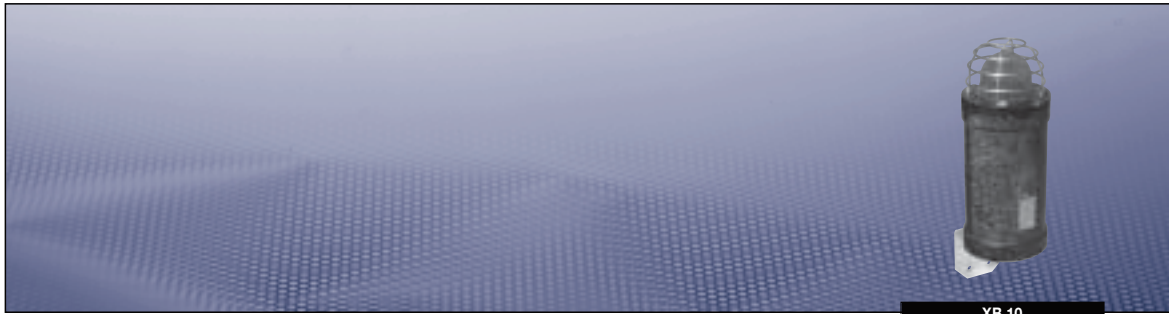
Ex-10/15 Joule flashing xenon



XB 10

Technical data

XB 10	
Marking to 94/9/EC	II 2G EEx d IIB T4 II 2G EEx de IIB T4
EC-Type Examination Certificate	BAS 00 ATEX 2204X (Ex d) BAS 00 ATEX 2226X (Ex ed)
GOST 'R' Certification	1Exd IIB T4/2Exde IIB T4 Russian Fire Alarm Approved (VNIPO)
Permissible ambient temperature	from -55 °C to +40 °C (EEx d)/from -50 °C to +40 °C (EEx de)
Rated voltage	24 - 48 V DC/110 - 254 V AC 50/60 Hz
Power consumption (tube energy 15 joule)	DC 24 V 16.8 mA / DC 48 V 26.8 mA AC 110 V 33 mADC / AC 220 - 254 V 34.8 mA
Flash rate	1 Hz
Entries	2 entries, M20 (EEx d)/3 entries, M20 (EEx de)
Rated terminal cross section	4 x 2.5 mm ² (DC)/6 x 2.5 mm ² (AC)
Protection category to EN 60529	IP66/IP67
Weight	2.8 kg (EEx d)/3.6 kg (EEx de)
Enclosure material	Corrosion-free GRP
Lens material	Thougened glass with lens guard
Finish	Natural black or painted to customer specification
Initiation	Optional telephone or relays initiated



XB 10

Ordering details

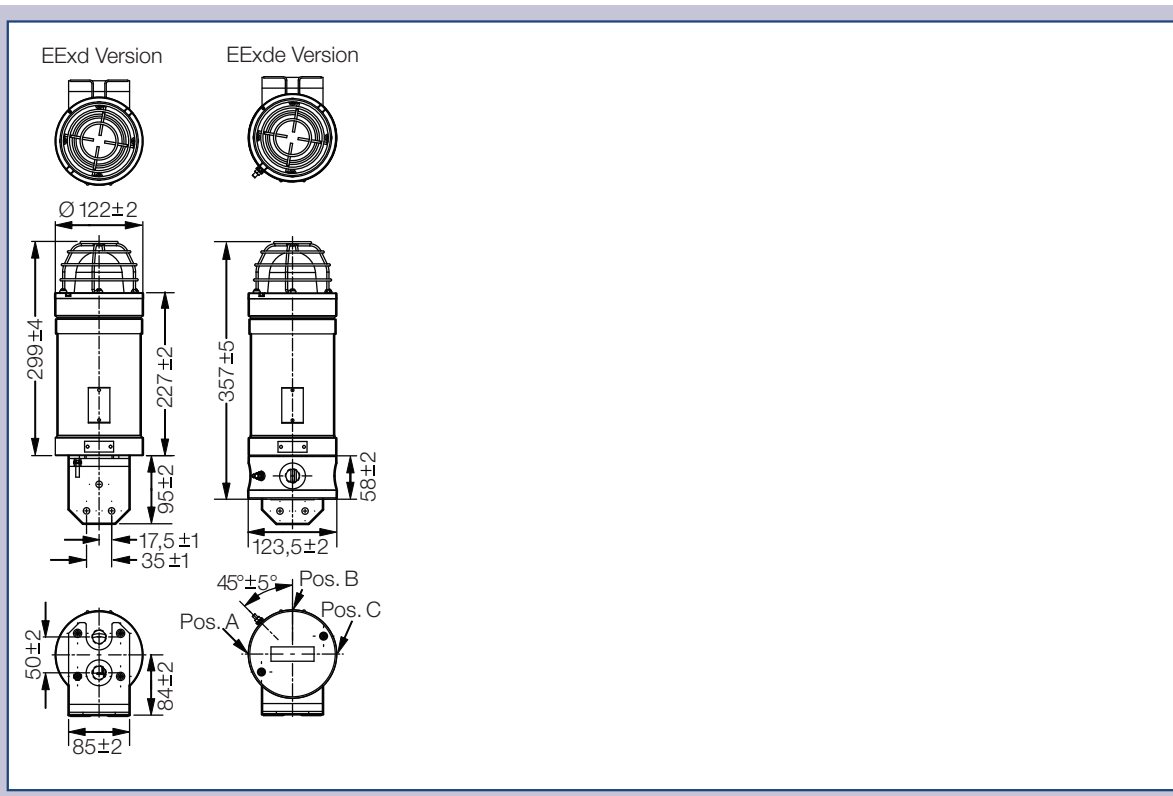
Catalogue No.	Certification	Description	Ordering Code
XB10D024FRNN2BN	ATEX Approved Ex II 2G, EExd, IIB, T5	15 joules, 24 V DC, red lens, bracket mounting, 2 x M20 Entries, black body, GRP body, 60 flashes/min., no labels	PX 811050
XB10D024FANN2BN	ATEX Approved Ex II 2G, EExd, IIB, T5	15 joules, 24 V DC, amber lens, bracket mounting, 2 x M20 Entries, black body, GRP body, 60 flashes/min., no labels	PX 811051
XB10D240FRNN2BN	ATEX Approved Ex II 2G, EExd, IIB, T5	15 joules, 240 V DC, red lens, bracket mounting, 2 x M20 Entries, black body, GRP body, 60 flashes/min., no labels	PX 811052
XB10D240FANN2BN	ATEX Approved Ex II 2G, EExd, IIB, T5	15 joules, 240 V DC, amber lens, bracket mounting, 2 x M20 Entries, black body, GRP body, 60 flashes/min., no labels	PX 811053

Ordering options*

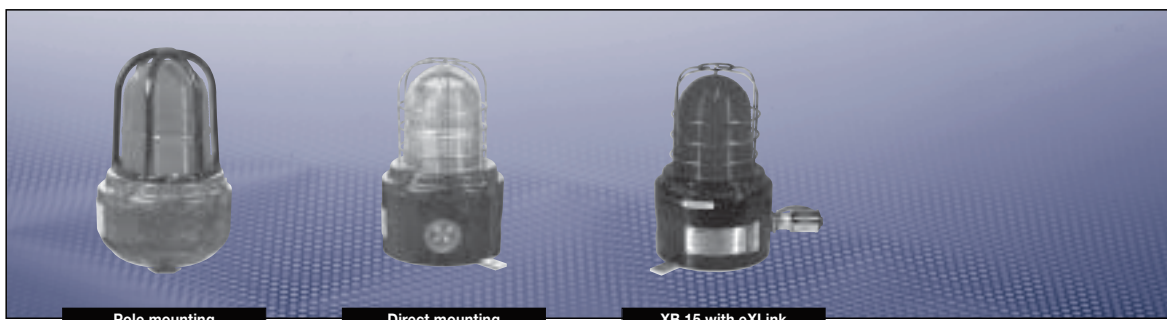
Model	Certification	Code	Voltage	Code	Power	Code	Lens	Code	Labels	Code	Options	Code	Entries	Code	Finish	Code
XB10	EEx d	D	DC 24 V	024	10J	T	Red	R	None	N	Telephone		1 x M20	1B	Natural Black	N
	EEx de	E	DC 48 V	048	15J	F	Blue	B	Yes	Y	Initiate	T	1 x PG13.5	1P	Red	R
	GOST 'R' Exd	DG*	AC 110 V	110			Green	G			Earth		2 x M20	2B	Blue	B
	GOST 'R' Exe	EG*	AC 220 V	220			Yellow	Y			continuity	E	3 x M20	3B	Yellow	Y
			AC 240 V	240			Amber	A			3 m cable				Grey	G
			AC 254 V	254			Clear	C			tail	G			White	W
											None	N			Special finish	S

* For more options see www.medc.com or contact your local representative

Dimension drawing



Ex-15 joule flashing xenon



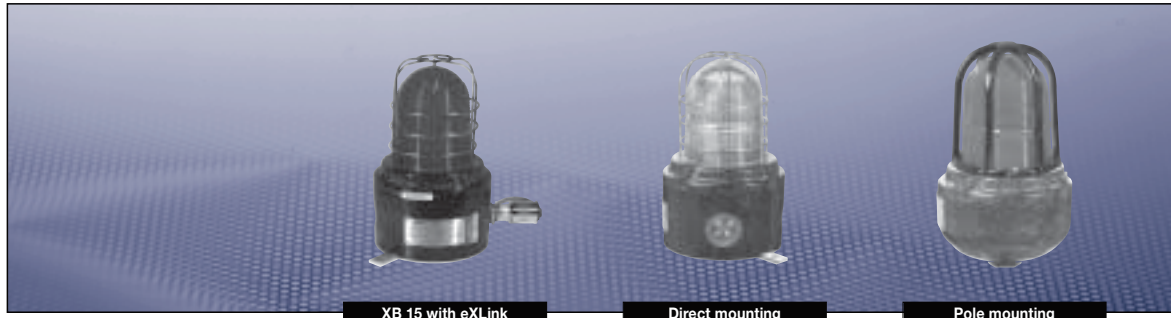
Technical data

XB 15	
Marking to 94/9/EC	II 2G/D EEx d IIC T*
EC-Type Examination Certificate	Baseefa 04 ATEX 0009X
UL Listed for USA and Canada	Class I, Div 2, Groups A, B, C & D Class I, Zone 1, AExd IIC T4/T5
UL listing No.	E187894
Permissible ambient temperature*	T6 T85 °C: -55 °C to +40 °C T5 T100 °C: -55 °C to +55 °C T4 T135 °C: -55 °C to +70 °C
Rated voltage	24 - 48 V DC/110 - 254 V AC 50/60 Hz
Rated current	DC 12 V 1.4 A
(tube energy 15 joule)	DC 24 V 1.1 A
	DC 48 V 0.4 A
	AC 110 - 120 V 0.4 A
	AC 230 - 240 V 0.2 A
	AC 254 V 0.17 A
Flash rate	60 fpm, 80 fpm, 120 fpm
Insulation class	I
Protection category to EN 60529	IP66/IP67
Weight	3.0 kg
Enclosure material	Corrosion-free GRP
Lens material	Glass
Entries	2 entries M20 (standard) / up to 2 x 1/2" or 3/4" NPT
Finish	Natural black or painted to customer specification
Initiation	Optional telephone or relays initiated
Rated terminal cross section	12 x 2.5 mm ² (direct mount)/8 x 2.5 mm ² (pipe mount)

Ordering options*

Model	Certi- fication	Code	Voltage	Code	Lens flashlight	Code	Lens colour	Code	Unit guard	Code	Fixing	Code	Unit options	Code	Finish	Code
XB 15	ATEX UL	B UL	DC 12 V	012	60	06	Red	R	None	N	Pipe mount	P	None	N	Natural black	N
			DC 24 V	024	80	08	Blue	B	Cast	C	Direct mount	D	Tag label	T	Red	R
			DC 48 V	048	120	12	Green	G	Wire	W	Direct w. backstrap	B	Duty label	D	Blue	B
			AC 110 V	110			Amber	A					Relay initiate	R	Yellow	Y
			AC 120 V	120			Yellow	Y					Telephone		Green	G
			AC 230 V	230			Clear	C					initiate	I	White	W
			AC 240 V	240									Blanking		Special finish	S
			AC 254 V	254									plug	P		

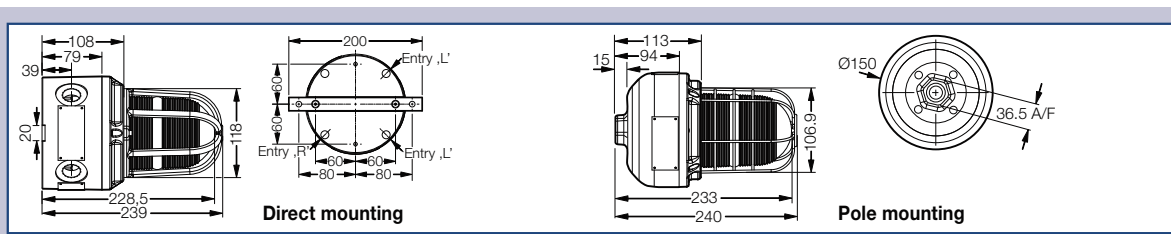
* For more options see www.medc.com or contact your local representative



Ordering details

Catalogue No.	Certification	Description	Ordering Code
XB15UL02406AWBNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	24 V DC, 60 flashes per minute, wire guard, backstrap, 2 x 1/2" NPT entries, natural black enclosure, amber lens	PX 27600046
XB15UL02406AWPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	24 V DC, 60 flashes per minute, wire guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure, amber lens	PX 27600051
XB15UL02406BWBNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	24 V DC, 60 flashes per minute, wire guard, backstrap, 2 x 1/2" NPT entries, natural black enclosure, blue lens	PX 27600044
XB15UL02406BWPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	24 V DC, 60 flashes per minute, wire guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure, blue lens	PX 27600049
XB15UL02406CWBNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	24 V DC, 60 flashes per minute, wire guard, backstrap, 2 x 1/2" NPT entries, natural black enclosure, clear lens	PX 27600042
XB15UL02406CWPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	24 V DC, 60 flashes per minute, wire guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure, clear lens	PX 27600047
XB15UL02406GWBNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	24 V DC, 60 flashes per minute, wire guard, backstrap, 2 x 1/2" NPT entries, natural black enclosure, green lens	PX 27600043
XB15UL02406GWPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	24 V DC, 60 flashes per minute, wire guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure, green lens	PX 27600048
XB15UL02406RWBNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	24 V DC, 60 flashes per minute, wire guard, backstrap, 2 x 1/2" NPT entries, natural black enclosure, red lens	PX 27600045
XB15UL02406RWPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	24 V DC, 60 flashes per minute, wire guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure, red lens	PX 27600050
XB15UL12006AWBNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	120 V AC, 60 flashes per minute, wire guard, backstrap, 2 x 1/2" NPT entries, natural black enclosure, amber lens	PX 27600056
XB15UL12006AWPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	120 V AC, 60 flashes per minute, wire guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure, amber lens	PX 27600060
XB15UL12006BWBNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	120 V AC, 60 flashes per minute, wire guard, backstrap, 2 x 1/2" NPT entries, natural black enclosure, blue lens	PX 27600054
XB15UL12006BWPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	120 V AC, 60 flashes per minute, wire guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure, blue lens	PX 27600059
XB15UL12006CWBNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	120 V AC, 60 flashes per minute, wire guard, backstrap, 2 x 1/2" NPT entries, natural black enclosure, clear lens	PX 27600052
XB15UL12006CWPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	120 V AC, 60 flashes per minute, wire guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure, clear lens	PX 27600057
XB15UL12006GWBNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	120 V AC, 60 flashes per minute, wire guard, backstrap, 2 x 1/2" NPT entries, natural black enclosure, green lens	PX 27600053
XB15UL12006GWPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	120 V AC, 60 flashes per minute, wire guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure, green lens	PX 27600058
XB15UL12006RWBNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	120 V AC, 60 flashes per minute, wire guard, backstrap, 2 x 1/2" NPT entries, natural black enclosure, red lens	PX 27600055
XB15UL12006RWPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	120 V AC, 60 flashes per minute, wire guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure, red lens	PX 27600029

Dimension drawing



Dimensions in mm

Ex-21 joule flashing xenon



XB 4

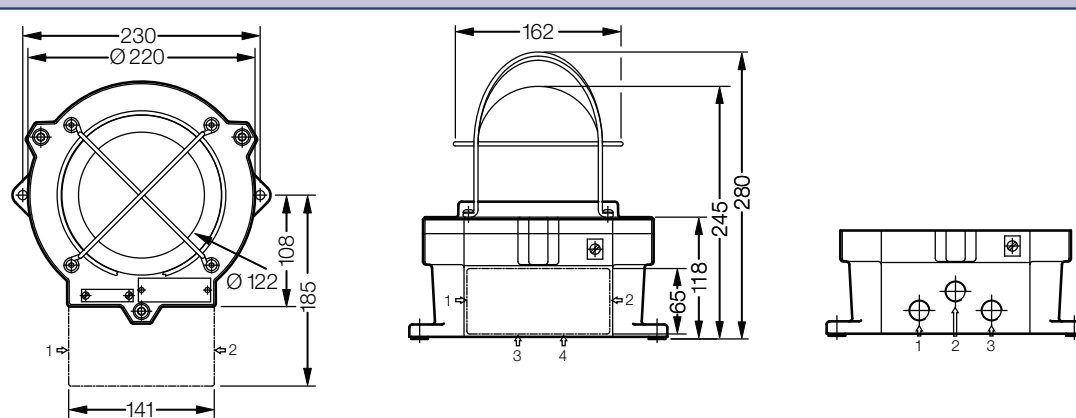
Technical data

XB 4

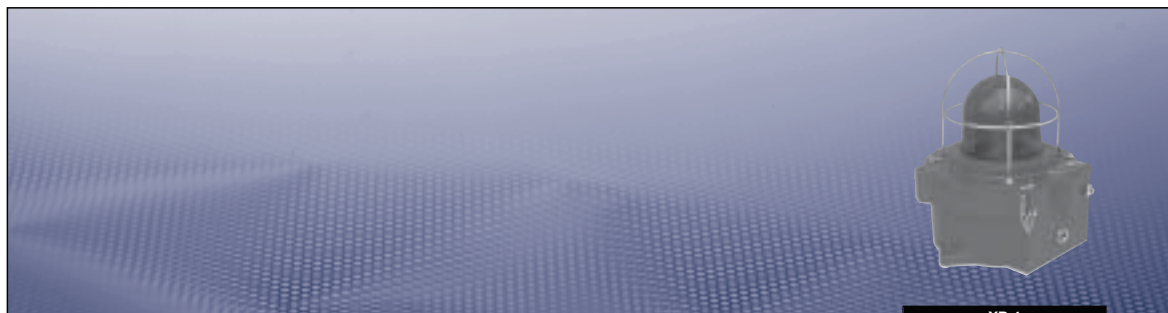
Marking to 94/9/EC	II 2G EEx d IIC T5
EC-Type Examination Certificate	Baseefa 02 ATEX 0224X
UL Listed for USA and Canada	Class I, Div 1, Groups C-D Class I, Zone 1
Listing No.	E187894
GOST 'R' Certification	1 Exd IIC T4 Russian Fire Approved (VNIIPO)
Permissible ambient temperature	UL -25 °C to +70 °C ATEX & GOST -50 °C to +55 °C (EExde) -55 °C to +55 °C (EExd)
Rated voltage	24 - 110 V DC/110 - 254 V AC 50/60 Hz
Rated current	DC 24 V 1.4 A
(tube energy 21 joule)	DC 48 V 0.54 A DC 110 V 0.24 A AC 110 V 0.35 A AC 120 V 0.45 A AC 220 V 0.24 A AC 240 V 0.185 A AC 254 V 0.21 A
Protection category to EN 60529	IP66/IP67
Finish	Red epoxy painted finish as standard
Initiation	Optional telephone or relays initiated
Flash rate	60 fpm, 120 fpm, 240 fpm
Entries	up to 3 entries, M20 or 2 entries M25 / 1/2" or 3/4" NPT
Weight	6.6 kg
Enclosure material	Marine grade alloy or stainless steel
Lens material	Thougened glass
Rated terminal cross section	8 x 10 mm ²

* Optional with lens guard

Dimension drawing



Dimensions in mm



XB 4

Ordering details

Catalogue No.	Certification	Description	Ordering Code
XB4BB8D2B3B06AN0RN1R	ATEX Approved Ex II 2G	21 joules, 24 V DC, red lens, 2 x M20 entries, 355Cd, 60 flashes per minute, no labels, red finish	PX 814001
XB4BH8D2B3B06AN0RN1R	ATEX Approved Ex II 2G	21 joules, 240 V AC, red lens, 2 x M20 entries, 355Cd, 60 flashes per minute, no labels, red finish	PX 814002
XB4ULB8D2E3E06ANAN1R	UL, cUL Listed, Class I, Div 1, Groups C & D	Marine grade alloy, 24 V DC, amber lens, 2 x 3/4" NPT entries, no lens guard, 60 flashes per minute, red finish	PX 869122
XB4ULB8D2E3E06ANRN1R	UL, cUL Listed, Class I, Div 1, Groups C & D	Marine grade alloy, 24 V DC, red lens, 2 x 3/4" NPT entries, no lens guard, 60 flashes per minute, red finish	PX 869121
XB4ULE8D2E3E06ANAN1R	UL, cUL Listed, Class I, Div 1, Groups C & D	Marine grade alloy, 110 V AC, amber lens, 2 x 3/4" NPT entries, no lens guard, 60 flashes per minute, red finish	PX 869126
XB4ULE8D2E3E06ANRN1R	UL, cUL Listed, Class I, Div 1, Groups C & D	Marine grade alloy, 110 V AC, red lens, 2 x 3/4" NPT entries, no lens guard, 60 flashes per minute, red finish	PX 869125

Ordering options*

Model	Certification	Code	Voltage	Code	Terminals	Code	Cable entries	Code	Lens flashrate	Code
XB 04	ATEX	B	DC 24 V	B	6 x 6 mm ²	6E	20 mm	B	60	06
	UL	UL¹⁾	DC 48 V	C	8 x 10 mm ²	8D	25 mm		80	08
	GOST 'R'	G	DC 110 V	D			1/2" NPT	D²⁾	120	12
			AC 110 V	E			3/4" NPT	E²⁾		
			AC 120 V	F						
			AC 230 V	G						
			AC 240 V	H						
			AC 254 V	J						

Ordering options*

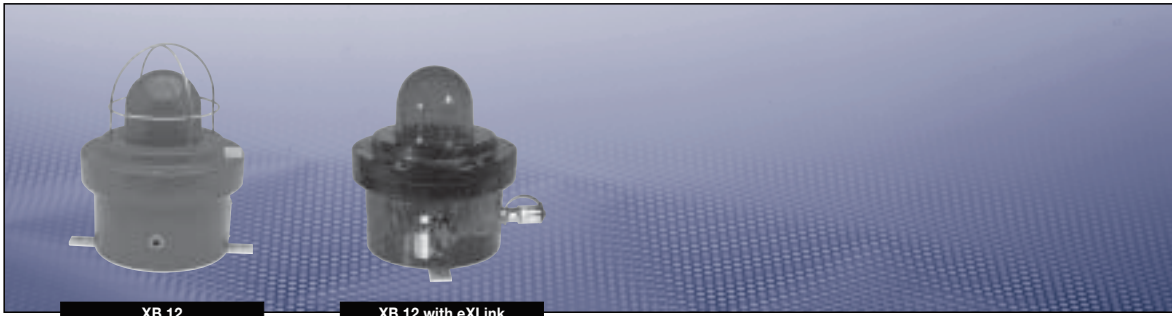
Initiate options	Code	Lens colour	Code	Tag/Duty label	Code	Material	Code	Finish	Code
None	A	Red	R	None	N	Stainless steel	0	Red	R
Telephone	B	Blue	B	Yes	Y	Alloy	1	Blue	B
Telephone &		Green	G					Yellow	Y
2. beacon Relay	D	Amber	A					Green	G
Relay & 2. beacon	E	Yellow	Y					White	W
		Clear	C					Special finish	S

* For more options see www.medic.com or contact your local representative

¹⁾ UL – available alloy or stainless steel. 24V DC, 110 V AC; 240 V AC only.

²⁾ Prefix entry size with entry position code e.g. 1B2B.

Ex-21 joule flashing xenon



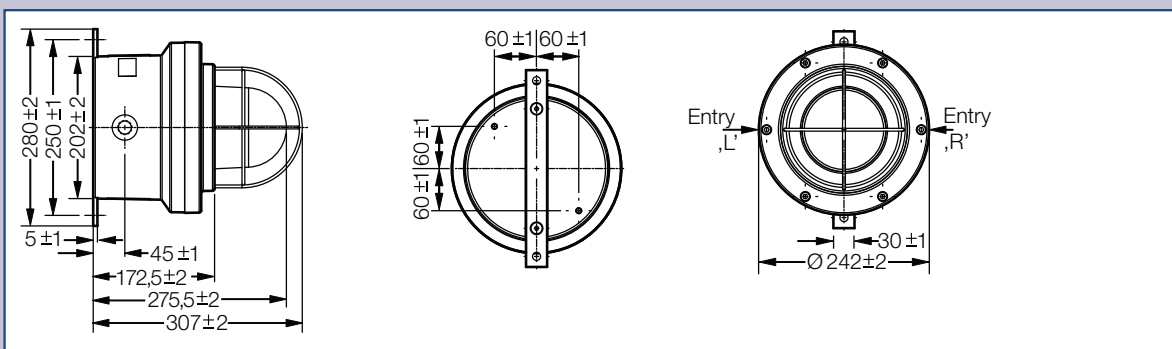
Technical data

XB 12

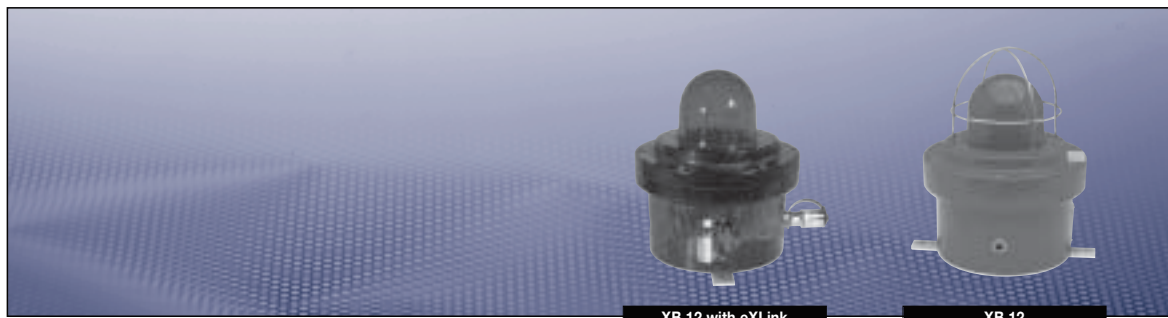
Marking to 94/9/EC	II 2G EEx d IIB T4/T5 T135 °C/T100 °C
EC-Type Examination Certificate	BAS 99 ATEX 2196/3
UL Listed for USA and Canada	Class I, Div 2, Groups C & D Class I, Zones 1 & 2 AExd IIB T4 & T5
UL Listing No.	E187894
GOST 'R' Certification	1Exd IIB T4/T5
GOST 'K' Certification	Ex d IIB T4/T5
Chinese (CQST) Certification	Ex d IIB T4/T5
Permissible ambient temperature	Certified EExd -55 °C to +70 °C (T4) -55 °C to +40 °C (T5) Temperature UL -55 °C to +70 °C
Rated voltage	24 V DC/110 - 240 V AC 50/60 Hz
Rated current tube 21 joule	DC 24 V 1.4 A AC 48 V 0.35 A AC 240 V 0.185 A
Protection category to EN 60529	IP66/IP67
Weight	7 kg
Enclosure material	Corrosion-free GRP
Lens material	Glass
Finish	Natural black or painted to customer specification
Initiation	Optional telephone or relays initiated
Flash rate	60 fpm
Entries	up to 2 entries M20 / 1/2" NPT
Rated terminal cross section	6 x 6 mm ²

¹⁾ Optional with lens guard

Dimension drawing



Dimensions in mm



Ordering details

Catalogue No.	Certification	Description	Ordering Code
XB12B02406ANBNNNN	ATEX Approved Ex II 2G	24 V DC, 60 flashes per minute, amber lens, no wire guard, backstrap mounting, no labels, black body	PX 812102
XB12B02406RNBNNNN	ATEX Approved Ex II 2G	24 V CD, 60 flashes per minute, red lens, no wire guard, backstrap mounting, no labels, black body	PX 812101
XB12B24006ANBNNNN	ATEX Approved Ex II 2G	240 V AC, 60 flashes per minute, amber lens, no wire guard, backstrap mounting, no labels, black body	PX 812104
XB12B24006RNBNNNN	ATEX Approved Ex II 2G	240 V AC, 60 flashes per minute, red lens, no wire guard, backstrap mounting, no labels, black body	PX 812103
XB12UL02406ANBNNNR	UL, cUL Listed, Class I, Div 2, Groups C & D	24 V DC, 60 flashes per minute, amber lens, no wire guard, backstrap mounting, no labels, red painted GRP	PX 869182
XB12UL02406RNBNNNR	UL, cUL Listed, Class I, Div 2, Groups C & D	24 V DC, 60 flashes per minute, amber lens, no wire guard, backstrap mounting, no labels, red painted GRP	PX 869181
XB12UL11006ANBNNNR	UL, cUL Listed, Class I, Div 2, Groups C & D	110 V AC, 60 flashes per minute, amber lens, no wire guard, backstrap mounting, no labels, red painted GRP	PX 869186
XB12UL11006RNBNNNR	UL, cUL Listed, Class I, Div 2, Groups C & D	110 V AC, 60 flashes per minute, red lens, no wire guard, backstrap mounting, no labels, red painted GRP	PX 869185

Ordering options*

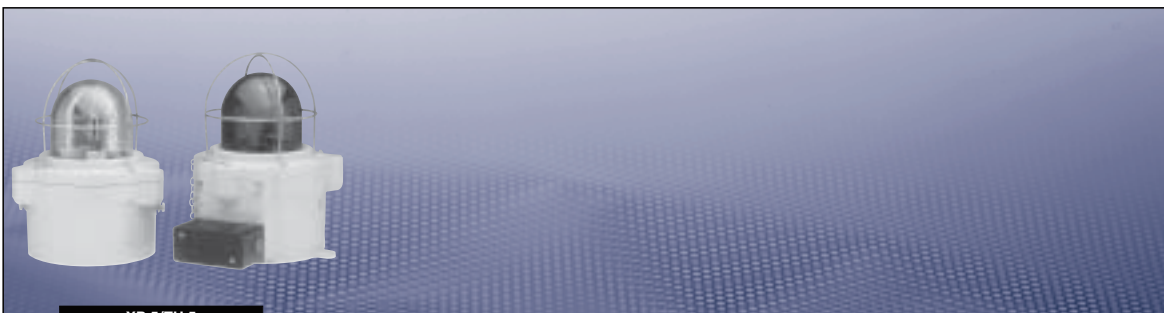
Model	Certification	Code	Voltage	Code	Lens flashrate	Code	Lens colour	Code	Lens guard	Code
XB 12	ATEX	B	DC 24 V	24	60	06	Red	R	None	N
	UL	UL	AC 110 V	110			Blue	B	Yes	Y
	GOST 'R'	G	AC 240 V	240			Green	G		
	GOST 'K'	K					Amber	A		
	Chinese						Yellow	Y		
	(CQST)	Q					Clear	C		

Ordering options*

Unit fixing	Code	Earth continuity	Code	Tag/Duty label	Code	Options	Code	Finish	Code
Direct mounting	D	None	N	None	N	Telephone	T	Natural black	N
Backstrap	B	Yes	Y	Yes	Y	Blanking plug	P	Red	R
						None	N	Blue	B
								Yellow	Y
								Green	G
								White	W
								Special finish	S

* For more options see www.medc.com or contact your local representative

Ex-5 joule sequenced and 70 W rotating



Technical data

XB 5 TH 5	
Marking to 94/9/EC	II 2G EEx d IIB T* / II 2G EEx de IIB T*
EC-Type Examination Certificate	Baseefa 00 ATEX 0225X
Permissible ambient temperature*	XB5 T6 -20 °C to +40 °C TH5 T4 -20 °C to +55 °C
Rated voltage	
XB 5 (5 W flashing Xenon tubes)	24 - 110 V DC; 110 - 254 V AC 50/60 Hz
TH 5 (55/70 W rotating mirror)	12 - 24 V DC; 110 - 240 V AC 50/60 Hz
Peak current consumption XB 5 (5 W flashing Xenon tube)	DC 24 V 1.3 A / DC 48 V 0.65 A DC 110 V 0.3 A / AC 110 V 0.5 A AC 120 V 0.45 A / AC 220 V 0.24 A AC 240 V 0.23 A / AC 254 V 0.21 A
Insulation class	I
Rated terminal cross section	6 x 6 mm ² (EEx e & EEx d)
Protection category to EN 60529	IP66/IP67/IP68
Enclosure material	Marine grade alloy and GRP (EEx e terminal chamber)
Lens material	Thougened glass ¹⁾
Weight	XB 5 (EEx d) 14.6 kg / XB 5 (EEx de) 15.6 kg TH 5 (EEx d) 14.9 kg / TH 5 (EEx de) 15.9 kg
Finish	Epoxy paint finish as standard or specified
Power consumption TH 5	DC 12 V 55 W
Rotating mirror	DC 24 V 70 W DC 110 - 240 V 70 W
Entries	up to 3 x M20 or 2 x M25 (EEx d) or up to 4 x M20 or M25 (EEx e)

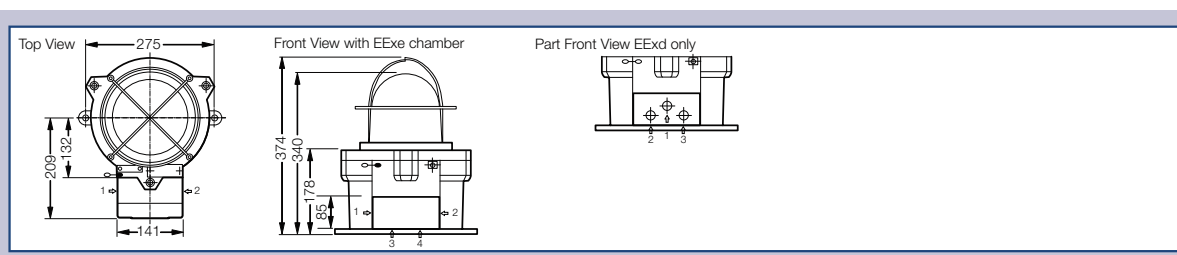
¹⁾ Optional with lens guard

Ordering options*

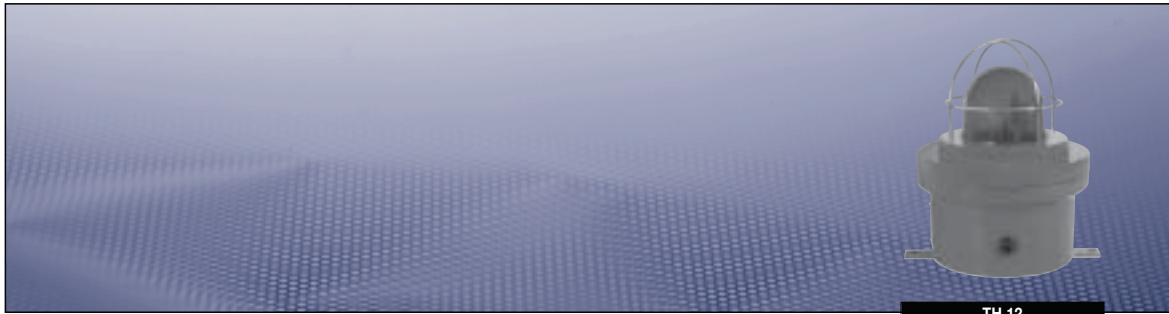
Model	Speed	Code	Terminal chamber	Code	Voltage	Code	Cable entries	Code	Lens colour	Code	Tag label	Code	Guard	Code	Finish	Code
XB 5	60 rpm	1	EEx d	D	12 V DC	A	20 mm	B	Red	R	None	N	None	0	Grey	G
TH 5	120 rpm	2	EEx e	E	24 V DC	B	25 mm	C	Blue	B	Yes	Y	Guard	1	Red	R
	180 rpm	3			48 V DC	C			Green	G					Blue	B
					110 V DC	D			Yellow	Y					Yellow	Y
					110 V AC	E			Amber	A					White	W
					120 V AC	F			Clear	C					Special finish	S
					220 V AC	G										
					240 V AC	H										
					254 V AC	J										

* For more options see www.medc.com or contact your local representative

Dimension drawing



Dimensions in mm



TH 12

Technical data

TH 12	
Marking to 94/9/EC	Ⓔ II 2G EEx d IIB T4/T5 T135 °C/T100 °C*
EC-Type Examination Certificate	Baseefa 99 ATEX 2196/3
GOST 'R' Certified	1Exd IIB T4/T5
Permissible ambient temperature*	T4: from -55 °C to +70 °C / T5: from -55 °C to +40 °C
Rated voltage	12 - 24 V DC/110 - 240 V AC 50/60 Hz
Rated wattage	DC 12 V 55 W H1 tungsten halogen bulb
	DC 24 V 70 W H1 tungsten halogen bulb
	AC 110 V 70 W H1 tungsten halogen bulb
	AC 240 V 70 W H1 tungsten halogen bulb
Protection category to EN 60529	IP66/IP67
Rated terminal cross section	6 x 6 mm ²
Enclosure material	Corrosion-free GRP
Lens material	Glass ¹⁾
Finish	Natural black or painted to customer specification
Rotating beacon speed	60 r.p.m., 120 r.p.m., 180 r.p.m.
Entries	up to 2 x M20
Weight	7.6 kg

¹⁾ Optional with lens guard

Ordering details

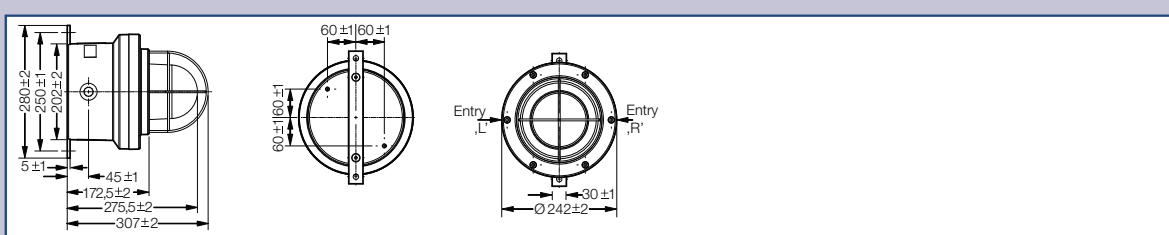
Catalogue No.	Certification	Description	Ordering Code
TH12B024RNBNN	ATEX Approved Ex II 2G, EEx d IIB T4/T5, Zone 1 & 2	GRP Body black, 70W Rotating Tungsten Halogen Lamp, 60 rpm., 24V DC, 503 Cd, Red lens, no lens guard Backstrap mounting	PX 815010

Ordering options*

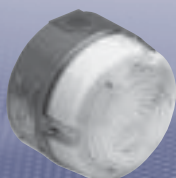
Model	Certification Code	Speed Code	Voltage Code	Lens colour Code	Lens guard Code	Unit fixing Code	Options Code	Finish Code
TH 12	ATEX B GOST 'R' G	60 rpm A	DC 12 V 012	Red R	None N	Direct mounting D	Tag label T	Natural black N
		120 rpm B	DC 24 V 024	Blue B	Yes Y	Backstrap B	Duty label D	Red R
		180 rpm C	AC 110 V 110	Green G			Earth continuity E	Blue B
			AC 240 V 240	Amber A			None N	Yellow Y
				Yellow Y				Green G
				Clear C				White W
								Special finish S

* For more options see www.medc.com or contact your local representative

Dimension drawing



Dimensions in mm

Ex-0.5 joule flashing xenon**XB 8****Technical data**

XB 8	
Marking to 94/9/EC	II 1G EEx ia IIB or Ex II 1G EEx ia IIC T4
EC-Type Examination Certificate	BAS 00 ATEX 1258X
GOST 'R' Certification	0EX ia IIB T4 0EX ia IIC T4
Cert. No.	A-0757
Permissible ambient temperature	from -55 °C to +60 °C
Rated voltage	12 - 24 V DC via suitable barrier
Power consumption	DC 12 V 52 mA max. nom. (IIB & IIC)
(tube energy 0.5 joule)	DC 24 V 55 mA max. nom. (IIC)/71 mA max. nom. (IIB)
Insulation class	
Protection category to EN 60529	IP66/IP67
Weight	1.4 kg
Enclosure material	Corrosion-free GRP
Lens material	Polycarbonate, clear
Finish	Natural red
Flash rate	1 Hz
Entries	3 entry, M20 via knockouts
Rated terminal cross section	8 x 2.5 mm ²

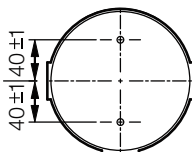
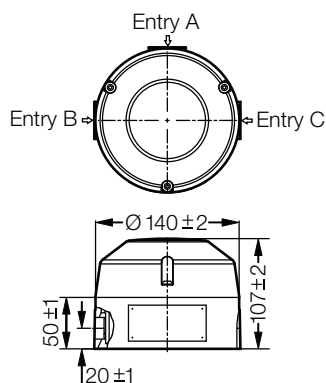
Ordering details

Catalogue No.	Description	Ordering Code
XB8CNR	Intrinsic safe IIB, 24 V DC, lens colour clear	818002

Ordering options*

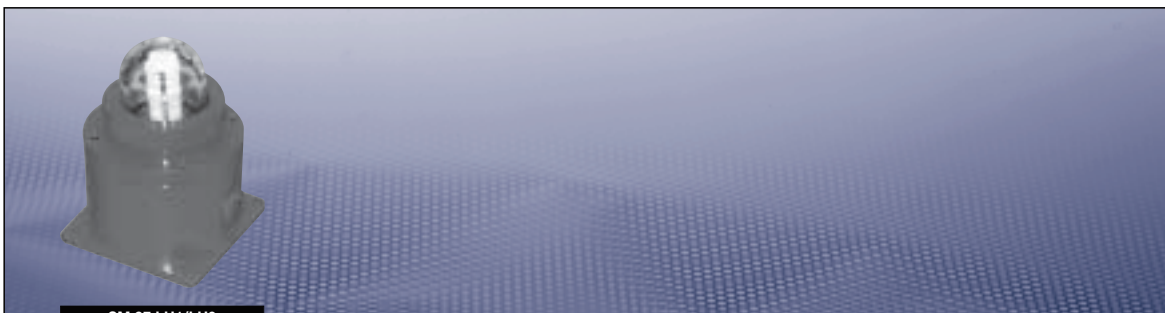
Model	Certification	Code	Voltage	Code	Lens colour	Code	Tag/duty label	Code	Finish	Code
XB 8	ATEX IIB	BB	12 V	12	Clear	C	Duty	D	Natural red	N
	ATEX IIC	BC	24 V	24	Special	S	Tag	T	Special	S
	GOST 'R' IIB	GB					None	N		
	GOST 'R' IIC	GC								

* For more options see www.medic.com or contact your local representative

Dimension drawing

Dimensions in mm

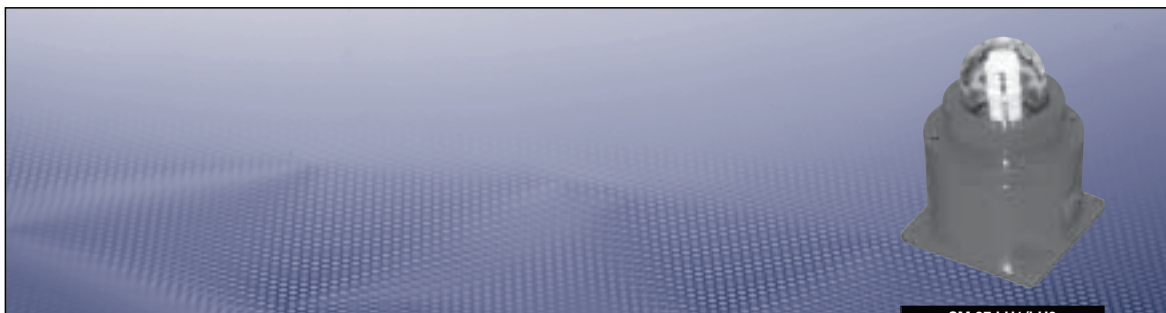
Ex-10 W steady filament/fluorescent



SM 87 LU1/LU3

Technical data

SM 87 LU1/LU3			
Marking to 94/9/EC			II 2G/D EEx d IIC ¹⁾
EC-Type Examination Certificate			Baseefa 03 ATEX 0222
UL Listed for USA & Canada			Class I, Div. 1, Groups C & D Class I, Zone 1
Listing No.			E187894
SM87LU1 & LU3 – CSA Certified			Class 1, Div. 1 & 2, Group D
Certification No.			96406
CSA Certification to C22.2			Nos. 0, 0.4, 0.5, 9, 30–M1986, 94–M91, 137–M1981, Class 1, Group D, Enclosure 3/4
Cert. No.			96406
GOST 'R' Certification			1 Exd IIC T4
Certification No.			A-0756 (SM87 Alloy only)
Chinese (CQST) Certification			Exd IIC T4/T5/T6 (LU1 & LU3 only)
Permissible ambient temperature ¹⁾	LU3	T4 (135 °C)	-55 °C to +40 °C
		T3 (200 °C)	-55 °C to +55 °C
	LU1	T6 (85 °C)	-55 °C to +40 °C
		T5 (5 W)	-55 °C to +55 °C
		T4 (10 W)	-55 °C to +55 °C
Rated voltage			24 - 48 V DC/110 - 254 V AC 50/60 Hz
Rated terminal cross section			4 x 2.5 mm ²
Power consumption	LU3		10 W (Filament lamp)
Power consumption	LU1		DC 24 V - 110 V 5 W (Fluorescent lamp) AC 240 V - 254 V 10 W (Fluorescent lamp)
Protection category to EN 60529			IP66/IP67
Entries			LU3: up to 4 x M20 or M25/LU1: up to 3 x M20 or M25
Weight			Alloy: 2.5 kg / Stainless steel: 3.8 kg
Enclosure material			Marine grade alloy or stainless steel
Lens material			Glass
Finish			Red epoxy painted finish as standard
Initiation			Telephone or relays initiated



SM 87 LU1/LU3

Ordering details

Catalogue No.	Certification	Description	Ordering Code
SM87LU1AUL024GN4T4BNR	UL, cUL Listed, Class I, Div 1, Groups C & D	24V DC, green lens, 10 W fluorescent bulb, marine grade alloy, red finish	PX 46200052
SM87LU1AUL024RN4T4BNR	UL, cUL Listed, Class I, Div 2, Groups C & D	24V DC, red lens, 2 x 3/4" NPT entries, no labels, red finish	PX 46200054
SM87LU3AUL024GN3T3BNR	UL, cUL Listed, Class I, Div 1, Groups C & D	24V DC, green lens, 10 W incandescent bulb, marine grade alloy, red finish	PX 46200096
SM87LU3AUL024RN3R3LNR	UL, cUL Listed, Class I, Div 2, Groups C & D	24V DC, red lens, 2 x 1/2" NPT entries, no labels, red finish	PX 762311

Ordering options*

Model	Code	Certification	Code	Voltage	Code	Lens	Code	Lens	Code	Cable	Code	Tag/duty	Code	Finish	Code
SM 87...						colour		guard		entries		label			
Fluorescent EEx d	LU1A	ATEX	B	DC 24 V	024	Red	R	None	N	20 mm	1	None	N	Red	R
Fluorescent EEx d		UL Listed	UL	DC 48 V	048	Blue	B	Yes	Y	25 mm	2	Yes	Y	Blue	B
(Stainless steel)	LU1S ²⁾	CSA Certified	C	AC 110 V	120	Green	G			Other	3			Yellow	Y
Filament EEx d	LU3A ³⁾	GOST 'R'		AC 220 V	220	Amber	A			Top	T			Yellow/	
(Alloy)		Certified	G	AC 240 V	240	Yellow	Y			Bottom	B			black	
Filament EEx d		Chinese (CQST)	Q	AC 254 V	254	Clear	C			RHS	R ¹⁾			stripes	X
(Stainless steel)	LU3S ²⁾									LHS	L			Green	G
														White	W
														Special	
														finish	S

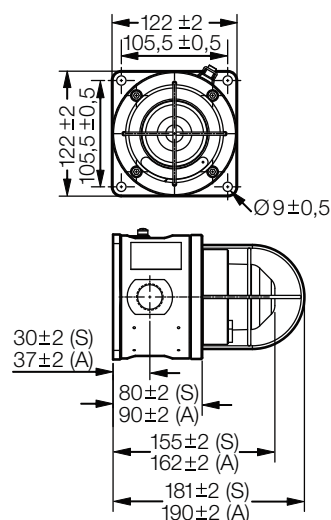
* For more options see www.medic.com or contact your local representative

¹⁾ not available on SM 87 LU1

²⁾ not available UL or GOST certified

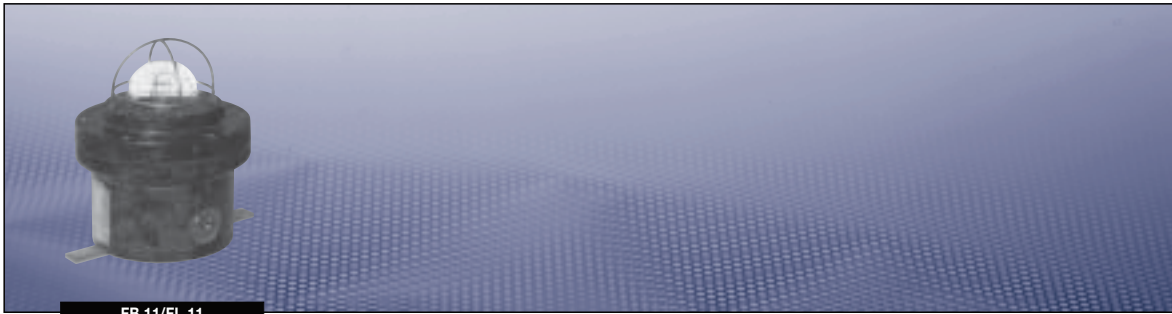
³⁾ not available CSA certified

Dimension drawing



Dimensions in mm

Ex-10 W steady filament/fluorescent



FB 11/FL 11

Technical data

FB 11 FL 11		
Marking to 94/9/EC		Ⓔ II 2G/D EEx d IIB T ¹⁾
EC-Type Examination Certificate		BAS 99 ATEX 2195X
UL Listed for USA and Canada (FB only)		Class I, Div. 2, Groups C & D and Class I, Zone 1, AExd IIB T4/T5
UL Listing No.		E187814
GOST 'R'		1Ex d IIB (for T ratings see table)
Permissible ambient temperature ¹⁾	FB 11 (T100 °C)	T5 -55 °C to +40 °C
	(T135 °C)	T4 -55 °C to +55 °C
	FL 11 (T100 °C)	T5 -20 °C to +40 °C
	(T135 °C)	T4 -20 °C to +55 °C
Rated voltage		24 - 48 V DC/110 - 240 V AC 50/60 Hz
Rated lamp type	FB 11	10 W (Filament lamp)
Rated lamp type	FL 11	DC 24 V 5 W lamp
		AC 254 V 10 W lamp
Protection category to EN 60529		IP66/IP67
Weight		2.5 kg
Enclosure material		Corrosion-free GRP
Lens material		Glass
Finish		Natural black or painted to customer specification
Entries		up to 2 x M20 / 2 x 1/2" NPT
Rated terminal cross section		4 x 2.5 mm ² (FL 11 AC)/6 x 2.5 mm ² (FL 11 DC & FB 11)



FB 11/FL 11

Ordering details

Catalogue No.	Certification	Description	Ordering Code
FB11B02410RNBNNN	ATEX	24 V DC, 10 W bulb, red lens, mounting bracket, natural black finish	PX 32500004
FB11UL02410GNBNNR	UL, cUL Listed, Class I, Div 2, Groups C & D	10 W incandescent beacon, 24 V DC, green lens, no lens guard, 2 x 1/2" NPT entries, painted red enclosure	PX 32500028
FB11UL11010GNBNNR	UL, cUL Listed, Class I, Div 2, Groups C & D	10 W incandescent beacon, 110 V AC, green lens, no lens guard, 2 x 1/2" NPT, painted red enclosure	PX 32500029

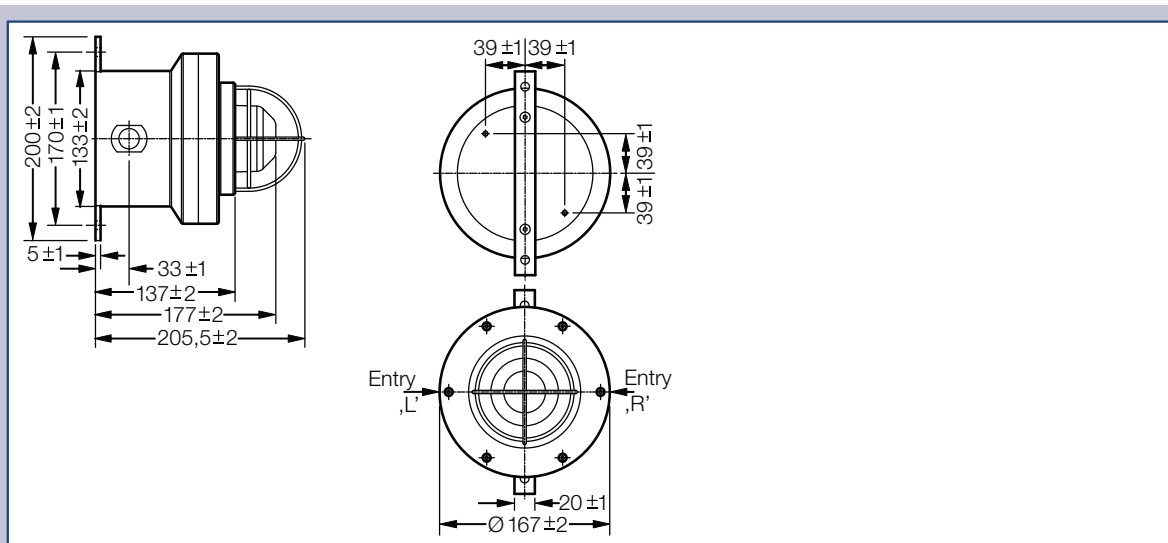
Ordering options*

Model	Certi- Code fication	Voltage Code	Lamp Code wattage	Lens Code colour	Lens Code guard	Unit Code fixing	Earth Code conti- nuity	Tag/ duty label	Finish Code
FB 11	ATEX B	DC 24 V 024	FL 5 W DC 5	Red R	None N	Direct	None N	None N	Red R
FL 11	UL	DC 48 V 048	FL 10 W AC 10	Blue B	Yes Y	mounting D	Yes Y	Yes Y	Blue B
	Listed ¹⁾ UL	AC 110 V 120	FB 10 W AC 10	Green G		Backstrap B			Yellow Y
	GOST	AC 120 V 120		Amber A					Yellow/black stripes X
	"R" R	AC 220 V 220		Yellow Y					Green G
		AC 240 V 240		Clear C					White W
		AC 254 V 254							Special finish S

* For more options see www.medic.com or contact your local representative

¹⁾ UL listed only available FB11

Dimension drawing

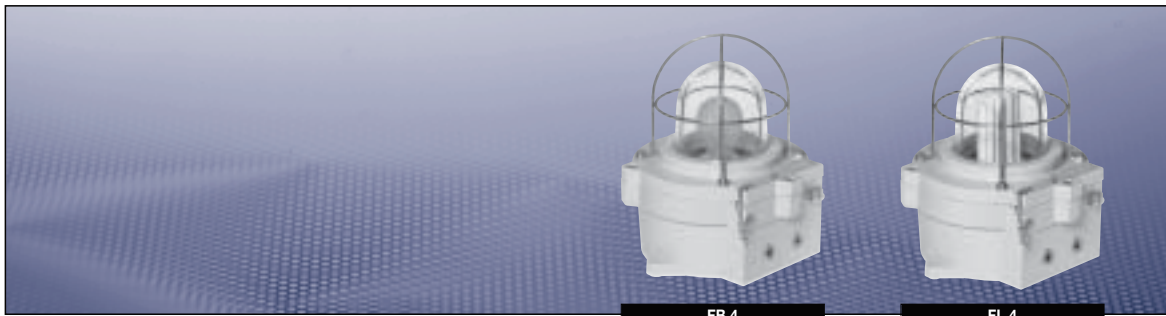


Dimensions in mm

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FB 4 FL 4		
EC-Type Examination Certificate		Baseefa 02 ATEX 0224X
Marking to 94/9/EC		II 2G EEx d IIC T ¹⁾ II 2G EEx e IIC T ¹⁾
UL Listed for USA and Canada		Class I, Div. 1, Groups C & D Class I, Zone 1 AExd IIB T4/T5
Listing No.		E187894
GOST 'R' Certified		1Ex d IIC T3/T4/T5
Enclosure material		Marine grade alloy or stainless steel and GRP (EEx e terminal chamber)
Lens material		Thougened glass
Finish		Grey epoxy paint finish as standard
Rated voltage		24 - 110 V DC/110 - 254 V AC 50/60 Hz
Lamps	FL 4	up to 3 x 13 W PL compact fluorescent lamps
	FB 4	up to 100 W GLS filament lamps, E 27 holder as standard
	Entries	up to 3 x M20 (EEx d) or up to 4 x M20 (EEx e)
Weight	FL 4 (EEx d)	Alloy: 6.5 - 7.9 kg / Stainless steel: add. 8.4 kg
	FL 4 (EEx de)	Alloy: 7.5 - 8.9 kg / Stainless steel: add. 8.4 kg
	FB 4 (EEx d)	Alloy: 6.4 kg / Stainless steel: add. 8.4 kg
	FB 4 (EEx de)	Alloy: 7.4 kg / Stainless steel: add. 8.4 kg
Rated terminal cross section		6 x 6 mm ² or 10 x 2.5 mm ² (EEx e), 8 x 10 mm ² (EEx d)
Protection category to EN 60529		IP66/IP67
Permissible ambient temperature ¹⁾	FL 4	DC T5 -20 °C to +55 °C
		AC T4 -20 °C to +55 °C
	FB 4	60 W T4 -55 °C to +40 °C (EEx d) / -50 °C to +40 °C (EEx e) 100 W T3 -55 °C to +55 °C (EEx d) / -50 °C to +40 °C (EEx e)



FB 4

FL 4

Ordering details

Catalogue No.	Certification	Description	Ordering Code
FB4EUL8U1N100B1N1G	UL, cUL Listed, Class I, Div 2, Groups C & D	Marine grade alloy, 120 V AC, 100 W bulb (not included), blue lens, lens guard, no labels, gray finish	PX 17800002
FL4BUL8U2M3M13R1N1RZ	UL Listed, Class I, Div 2, Groups C & D	Marine grade alloy, 24 V DC, 2 x 1/2" NPT entries, 13W tube (not included), red lens, lens guard, red finish, one certified plug	PX 27800006

Ordering options*

Model	Certi- Code fication	Voltage Code	Terminals Code	Cable Code entries	Lamp Code wattage	Lens Code colour	Guard Code	Options Code	Material Code	Finish Code
FB 4	ATEX B	DC 24 V BB	6 x 6 mm ² 6E	20 mm B	FL 4	Red R	None 0	Duty D	Stainless	Grey G
FL 4	UL UL	DC 48 V CB	8 x 10 mm ² 8D	25 mm C	1 x 13 W 13	Blue B	Guard Y	Tag T	steel 0	Red R
	GOST	DC 110 V DB		1/2" NPT M¹⁾	2 x 13 W 26	Green G		None N	Alloy 1	Blue B
	'R' G	AC 110 V EB		3/4" NPT N¹⁾	3 x 13 W 39	Amber A				Yellow Y
		AC 120 V FB			FB 4	Yellow Y				White W
		AC 230 V GB			60 W 60	Clear C				Special
		AC 240 V HB			100 W 100					finish S
		AC 254 V IB								

* For more options see www.medc.com or contact your local representative

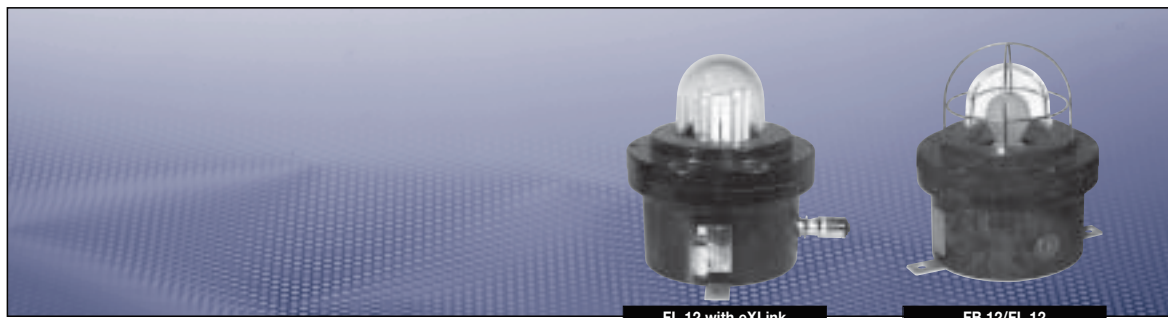
¹⁾ UL certified only

Ex-100 W steady filament and 39 W Fluorescent



Technical data

FB 12 FL 12		
Marking to 94/9/EC		Ⓔ II 2G/D EEx d IIB T ¹⁾
EC-Type Examination Certificate		BAS 99 ATEX 2196
UL Listed for USA and Canada		Class I, Div. 2, Groups C & D and
(FB12 only)		Class I, Zone 1, AExd IIB T4/T5
UL Listing No.		E187814
GOST 'R'		1Exd IIB (for T ratings see table)
Permissible ambient temperature ¹⁾		
	FB 12 60 W T5:	-55 °C to +40 °C
	T4:	-55 °C to +55 °C
	100 W T3:	-55 °C to +30 °C
	FL 12 13 W AC/DC T6:	-20 °C to +40 °C
	13 W AC T5:	-20 °C to +55 °C
	26 W AC T5:	-20 °C to +40 °C
	16 W AC T4:	-20 °C to +55 °C
	39 W AC T4:	-20 °C to +40 °C
Rated voltage		24 V DC/110 - 240 V AC 50/60 Hz
Rated lamp type	FB 12	60 W filament lamp
		100 W filament lamp
Rated lamp type	FL 12	13 W fluorescent lamp
Rated terminal cross section		6 x 6 mm ²
Enclosure material		Corrosion-free GRP
Protection category to EN 60529		IP66/IP67
Weight		7.2 kg (FL 12) / 7.6 kg (FB 12)
Lens material		Glass ¹⁾
Finish		Natural black or painted to customer specification
Entries		up to 2 entries, M20 / 2 x 1/2" NPT



Ordering details

Catalogue No.	Certification	Description	Ordering Code
FB12UL02460GNBNNR	UL, cUL Listed, Class I, Div 2, Groups C & D	60W incandescent beacon, 24V DC, green lens, no lens guard, 2 x 1/2" NPT entries, painted red enclosure	PX 32600036
FB12UL120100GNBNNR	UL, cUL Listed, Class I, Div 2, Groups C & D	100W incandescent beacon, 24V DC, green lens, no lens guard, 2 x 1/2" NPT entries, painted red enclosure	PX 32600037
FB12UL12060CNBNNR	UL, cUL Listed, Class I, Div 2, Groups C & D	120V AC, 60W bulb, clear lens, mounting bracket, no labels, natural black finish	PX 326023
FB12UL12060GNBNNR	UL, cUL Listed, Class I, Div 2, Groups C & D	60W incandescent beacon, 120V AC, green lens, no lens guard, 2 x 1/2" NPT entries in a painted red enclosure	PX 32600035

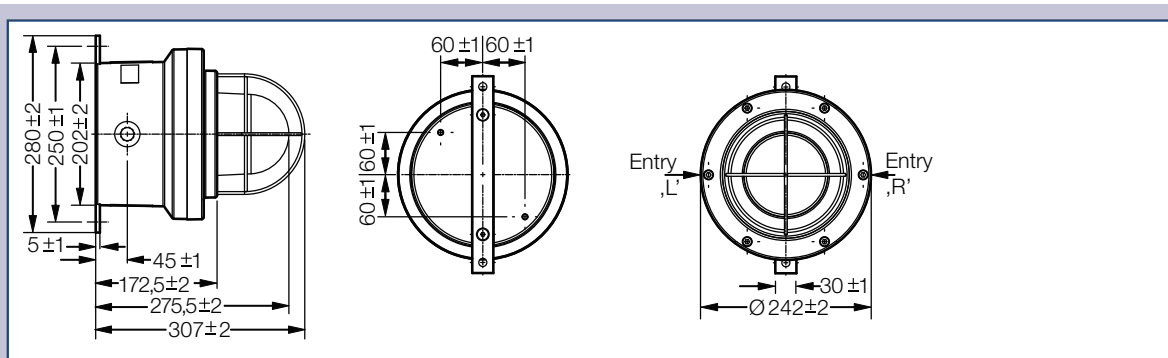
Ordering options*

Model	Certi- Code fication	Voltage Code	Lamp Code wattage	Lens Code colour	Lens Code guard	Unit Code fixing	Earth Code conti- nuity	Tag/ Code duty label	Finish Code
FB 12	ATEX B	DC 24 V 024	FL 1 x 13 W 5	Red R	None N	Direct	None N	None N	Red R
FL 12	UL	DC 48 V 048	FL 2 x 13 W 10	Blue B	Yes Y	mounting D	Yes Y	Yes Y	Blue B
	Listed ¹⁾ UL	AC 110 V 120	FL 3 x 13 W 10	Green G		Backstrap B			Yellow Y
	GOST	AC 120 V 120	FB 60 W	Amber A					Yellow/black stripes X
	"R" R	AC 220 V 220	FB 100 W	Yellow Y					Green G
		AC 240 V 240		Clear C					White W
		AC 254 V 254							Special finish S

* For more options see www.medc.com or contact your local representative

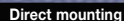
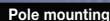
¹⁾ UL listed only available FB11

Dimension drawing



Dimensions in mm

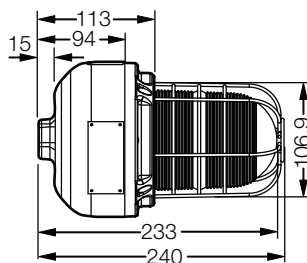
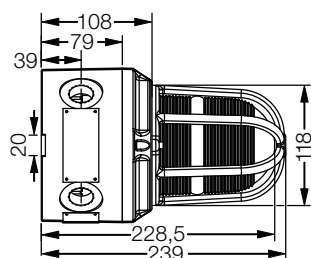
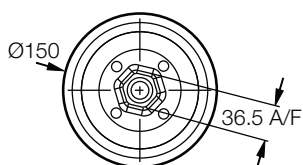
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FB 15

Marking to 94/9/EC		Ⓔ II 2G/D EEx d IIC T ¹⁾
EC-Type Examination Certificate		BAS 04 ATEX 0009X
UL Listed for USA and Canada		Class I, Div 2, Groups A, B, C & D Class I, Zone 1 AExd IIC T3/T4
UL listing No.		E187894
Permissible ambient temperature	60 W (T135 °C)	T4 -55 °C to +55 °C
	60 W (T200 °C)	T3 -55 °C to +70 °C
	100 W (T135 °C)	T4 -55 °C to +40 °C
Rated voltage		24 - 48 V DC/110 - 254 V AC 50/60 Hz
Power consumption		60 W/100 W filament
Rated terminal cross section		12 x 2.5 mm ²
Protection category to EN 60529		IP66/IP67
Entries		up to 3 x M20 or M25 (standard = 2 x M20)
Weight		3.0 kg
Enclosure material		Corrosion-free GRP
Lens material		Glass ¹⁾
Finish		Natural black or painted to customer specification

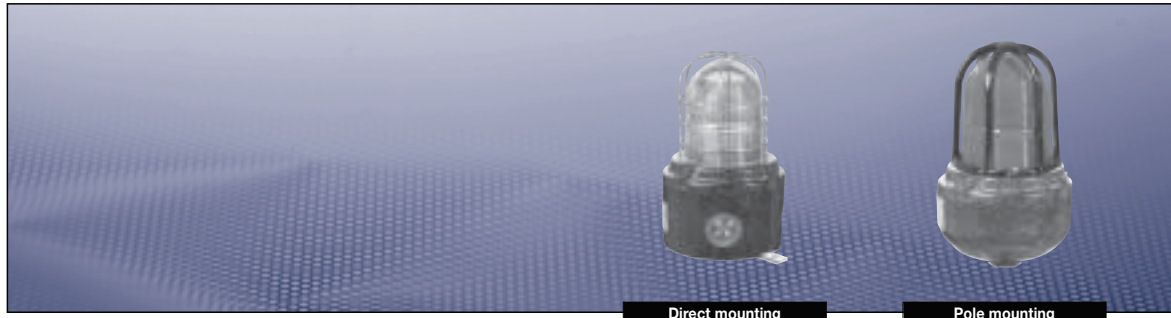
¹⁾ Optional with lens guard



Direct mounting

Pole mounting

Dimensions in mm



Ordering details

Catalogue No.	Certification	Description	Ordering Code
FB15UL024100ANPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	100 W incandescent beacon, 24 V DC, amber lens, no lens guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure	PX 47600025
FB15UL024100BNPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	100 W incandescent beacon, 24 V DC, blue lens, no lens guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure	PX 47600029
FB15UL024100CNPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	100 W incandescent beacon, 24 V DC, clear lens, no lens guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure	PX 47600028
FB15UL024100GNPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	100 W incandescent beacon, 24 V DC, green lens, no lens guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure	PX 47600027
FB15UL024100RNPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	100 W incandescent beacon, 24 V DC, red lens, no lens guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure	PX 47600026
FB15UL120100ANPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	100 W incandescent beacon, 120 V AC, amber lens, no lens guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure	PX 47600020
FB15UL120100BNPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	100 W incandescent beacon, 120 V AC, blue lens, no lens guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure	PX 47600024
FB15UL120100CNPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	100 W incandescent beacon, 120 V AC, clear lens, no lens guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure	PX 47600023
FB15UL120100GNANR	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	120 V AC, 100W bulb, green lens, mounting bracket, no labels, red finish	PX 47600001
FB15UL120100GNPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	100 W incandescent beacon, 120 V AC, green lens, no lens guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure	PX 47600022
FB15UL120100RNPNN	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	100 W incandescent beacon, 120 V AC, red lens, no lens guard, pipe mounting, 1 x 3/4" NPT entry, natural black enclosure	PX 47600021

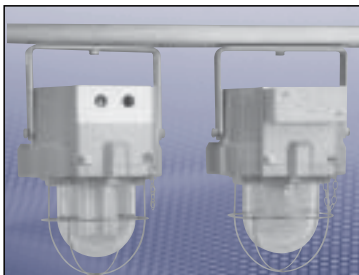
Ordering options*

Model	Certi- fication	Code	Voltage	Code	Lamp wattage	Code	Lens colour	Code	Lens guard	Code	Unit fixing	Code	Tag/duty label	Code	Finish	Code
FB 15	ATEX UL	B UL	DC 24 V	024	60 W	60	Red	R	None	N	Pipe mount	P ¹⁾	None	N	Natural black	N
			DC 48 V	048	100 W	100	Blue	B	Cast	C	Direct mount	D	Tag label	T	Red	R
			AC 110 V	120			Green	G	Wire	W	Direct mount	D	Duty label	D	Blue	B
			AC 120 V	120			Amber	A			Direct w/ backstrap	B	Blanking plug	P	Yellow	Y
			AC 220 V	220			Yellow	Y							Green	G
			AC 240 V	240			Clear	C							White	W
			AC 254 V	254											Special finish	S

* For more options see www.medc.com or contact your local representative

¹⁾ Not available on ATEX version

Ex-200 W steady filament and 52 W fluorescent



FB 5/FL 5/HS 5/MS 5

Technical data

FB 5 | FL 5 | HS 5 | MS 5

Marking to 94/9/EC	Ⓔ II 2G EEx d IIB ¹⁾ Ⓔ II 2G EEx de IIB ¹⁾	
EC-Type Examination Certificate	Baseefa 02 ATEX 0225X	
CSA certified	Class I, Zone 1	
	Ex d IIB T4	
CSA certification to	E79-0-95, E-79-1-95, C22.2 Nos. 9.0-96	
Certification No.	LR96406 (HS5 only)	
Permissible ambient temperature ¹⁾	FL5 T4:	-20 °C to +50 °C
	FB5 T3:	-20 °C to +30 °C
	MF5 T3:	-20 °C to +40 °C
	HS5 T4:	-20 °C to +40 °C
Rated voltage	220 - 254 V AC 50/60 Hz	
Rated terminal cross section	6 x 6 mm ² (EEx de), 8 x 10 mm ² (EEx d)	
Lamps	FL 5	up to 4 x 13 W PL compact fluorescent lamps
	FB 5	up to 200 W GLS filament lamps, E 27 cap as standard
	MF 5	up to 80 W mercury fluorescent lamp
	HS 5	up to 70 W high pressure sodium lamp
Protection category to EN 60529	IP66/IP67	
Entries	up to 3 x M20 or M25 (EEx d) or up to 4 x M20 or M25 (EEx e)	
Weight	FL 4 (EEx d)	Alloy: 6.5 - 7.9 kg / Stainless steel: add. 8.4 kg
	FL 4 (EEx de)	Alloy: 7.5 - 8.9 kg / Stainless steel: add. 8.4 kg
	FB 4 (EEx d)	Alloy: 6.4 kg / Stainless steel: add. 8.4 kg
	FB 4 (EEx de)	Alloy: 7.4 kg / Stainless steel: add. 8.4 kg
Enclosure material	Marine grade alloy or stainless steel and GRP (EEx e terminal chamber)	
Lens material	Thougened glass (coloured if required)	
Finish	Grey epoxy paint finish as standard	

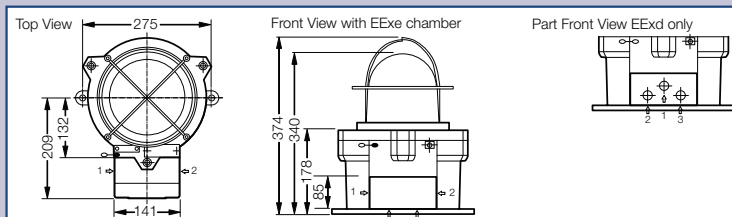
¹⁾ Optional with lens guard

Ordering options*

Model	Terminal Code chamber	Voltage Code	Fixing Code	Cable Code entries	Lens Code guard	Tag Code label	Material Code	Finish Code
FB 5	EEx d D	220 V AC G	Backstrap B	20 mm B	None 0	None N	Stainless steel 0	Grey G
FL 5	EEx de E	240 V AC H	Stirrup S	25 mm C	Guard 1	Yes Y	Alloy 1	Red R
MF 5		254 V AC J						Blue B
HS 5								Yellow Y
								White W
								Special finish S

* For more options see www.medc.com or contact your local representative

Dimension drawing



Dimensions in mm

EX - S O U N D E R S A N D H O R N S

Explosion protected units for Zone 0, 1, 2, 22, Class I, Div 1 & 2, GOST 'R' & 'K'

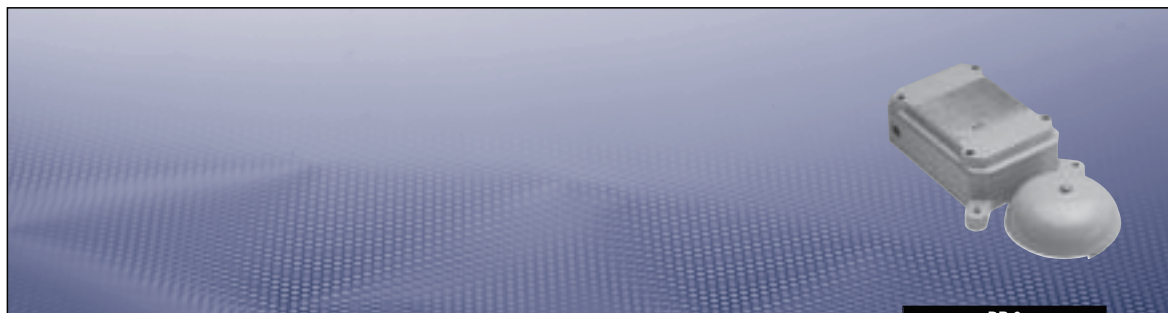
This range of light weight, flameproof Sounders has been designed with a high weatherproof rating to cope with the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

New electronic circuitry allows the DB1P and DB1HP to be switched between two selectable tones by either reversing the supply polarity, or connecting a second voltage supply. The higher output DB1H and DB1HP are particularly suitable for noisy environments.

The flamepaths, flare and the 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. An optional Ex e terminal chamber is available.



- Optional Exe terminal chamber
- UL Listed for USA and Canada –
- Hazardous locations:
- Class I, Div 2, Groups A-D. Class I,
- Zones 1 & 2, AExd IIC T4.
- Ordinary locations: Audible-Signal Device.
- GOST 'R' & 'K' certified
- Chinese (CQST) certified
- Australian (SAA) certified
- IP66 and IP67
- Certified temperature –55°C to +70°C
- All GRP corrosion free flamepaths
- Up to 118dBA output



DB 6

Technical data

DB 6	
Marking to 94/9/EC	II 2G EEx d IIB T5
EC-Type Examination Certificate	Baseefa 03 ATEX 0257
Permissible ambient temperature	-20 °C to +55 °C
Rated voltage and Rated current	24 V DC 8 mA 200/254 V AC 3/5 mA 40 Hz/60 Hz
Contact spring	Phosphor bronze
Contacts	Silver
Coil	Bakelite former
Magnet	Laminated iron
Finish	Grey epoxy paint finish as standard or to customer's specification
Max. sound levels	24 V DC 98 ± 3 db(A) 200/254 V AC 106 ± 3 db(A)
Protection category to EN 60529	IP65
Entries	2 x M20 mm ISO with one EEx d blank fitted
Weight	11 kg
Enclosure material	Cast iron
Rated terminal cross section	4 x 4 mm ²

Ordering details

Catalogue No.	Description	Ordering Code
DB6BNR	Cast iron 98 dB(A) outpart, red	PX806003

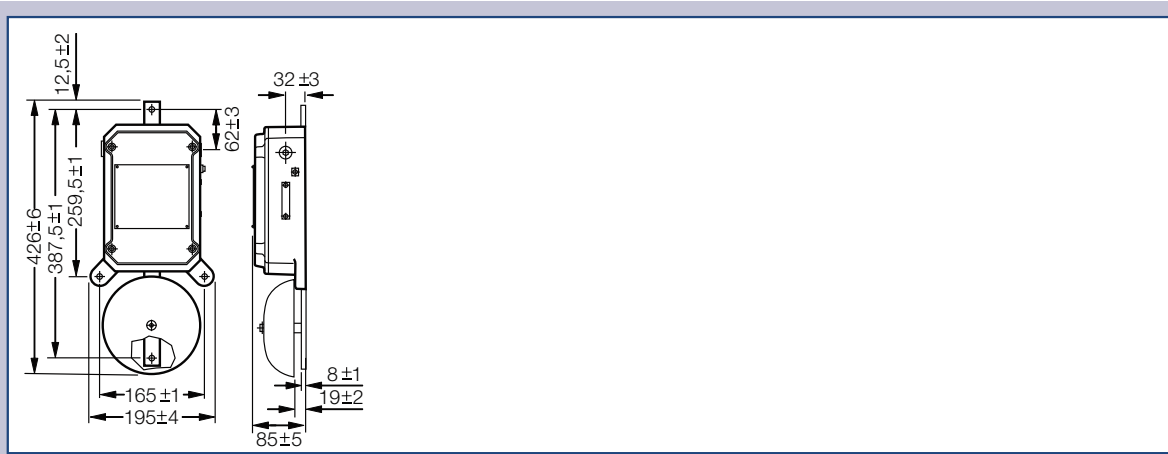
Ordering options*

Unit Type	Voltage	Code	Label	Code	Finish	Code
DB 6	24 V DC	B	None	N	Red	R
	240 V AC	H	Yes	Y	Grey	G
					Special finish	S ¹⁾

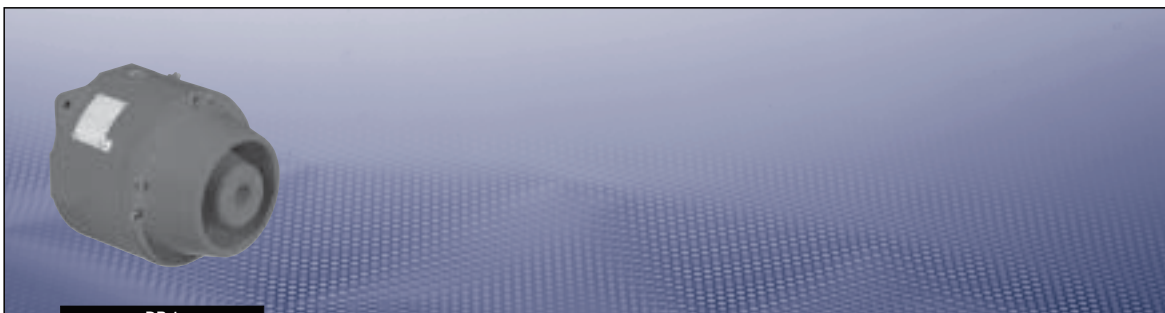
¹⁾ Please specify

* For more options see www.medic.com or contact your local representative

Dimension drawing



Ex-113 dB(A) sounder



DB 1

Technical data

DB 1						
Marking to 94/9/EC		II 2G EEx d IIB T3				
EC-Type Examination Certificate	DB 1 (P)	Baseefa 02 ATEX 0207				
	DB 1 H (P)	Baseefa 02 ATEX 0209				
UL Listing		Class I, Div. 1, Groups C & D				
Listing No.		E187688				
GOST 'R' Certification		1Exd IIB T4 (DB1 & DB1P only)				
Permissible ambient temperature	DB1 & DB1P	-20 °C to +55 °C				
	DB1 H & DB1HP	-20 °C to +70 °C				
Rated voltage and Rated current		DC		AC		
	DB 1 (P)	12 V	24 V	48 V	120 V	240 V
	DB 1 H (P)	125 mA	250 mA	250 mA	60 mA	50 mA
		900 mA	700 mA	–	200 mA	100 mA
Resistor values		470 Ω minimum (DC only)				
Max. sound levels		103 ± 3 db(A) DB1 (P)				
		96 ± 3 db(A) DB1 (P) 12 V				
		110 ± 3 db(A) at 1 m. ¹⁾ DB1 H (P)				
Protection category to EN 60529		IP66				
Weight	DB1 & DB1P	3.5 kg (alloy), 8.3 kg (stainless)				
	DB1 H & DB1HP	5.6 kg (alloy), 12.7 kg (stainless)				
Enclosure material		Stainless Steel or corrosion resistant alloy, ABS flaire				
Finish		Epoxy paint finish as standard or to customer's specification				
Entries		up to 3 x 20 mm or 25 mm ISO				
Rated terminal cross section		up to 4 mm ²				

¹⁾ Sound level is dependant upon the tone selection



DB 1

Ordering details

Catalogue No.	Certification	Description	Ordering Code
DB1BA024A1A3NNNR	ATEX approved Ex II 2GD	103 dB(A), 24 V DC, 2 x M20 entries, choice of 6 tones, red body finish	PX 801001
DB1HPULA024D1D2NNNR	UL Listed, Class I, Div 2, Groups C & D	Up to 103dB(A) at 10ft., two-stage alarms, with 26 tones, 24 V DC, alloy, red body finish, no tag or duty labels, 2 x 3/4" NPT entries	PX 869115
DB1PULA024D1D2NNNR	UL Listed, Class I, Div 2, Groups C & D	Up to 96dB(A) at 10ft., two-stage alarms, with 26 tones, 24 V DC, alloy, red body finish, no tag or duty labels, 2 x 3/4" NPT entries	PX 869111
DB1PULA110C1C3NNNR	UL Listed, Class I, Div 2, Groups C & D	Up to 96 dB(A) at 10ft., sounder, 110 V AC, 2 x 1/2" NPT entries, red body finish	PX 17300108

Ordering options*

Unit Type	Certification	Code	Material Code	Voltage Code	Entries ²⁾ Code	Duty label Code	Tag label Code	Features Code	Finish Code
DB 1	ATEX/CENELEX	B	SS 316 S	12 V DC 012	20 mm A	None N	Required T	Not required N	Red R
DB 1 H	UL		Alloy A	24 V DC 024	25 mm B	Required D	Not required N	Telephone initiate T	Grey G
DB 1 P	(DBIP & IHP only)	UL		48 V DC 048	1/2" NPT (UL only) C		required N	Relay initiate R	Special finish S
DB 1 P2	GOST 'R'			110 V DC 110	3/4" NPT (UL only) D			Remote S	
DB 1 HP	(DBI & DBIP only)	G		240 V DC 240	LHS 1 RHS 2 Bottom 3			End of line resistor E³⁾	

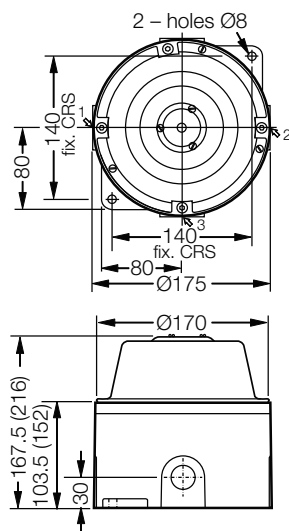
¹⁾ UL – Available Alloy only

²⁾ Prefix position with size code i.e. 1T 1B = 20 mm Top and Bottom e.g. A1A3 = 20 mm left and bottom entries

³⁾ Features not available on DB1P and DB1 HP

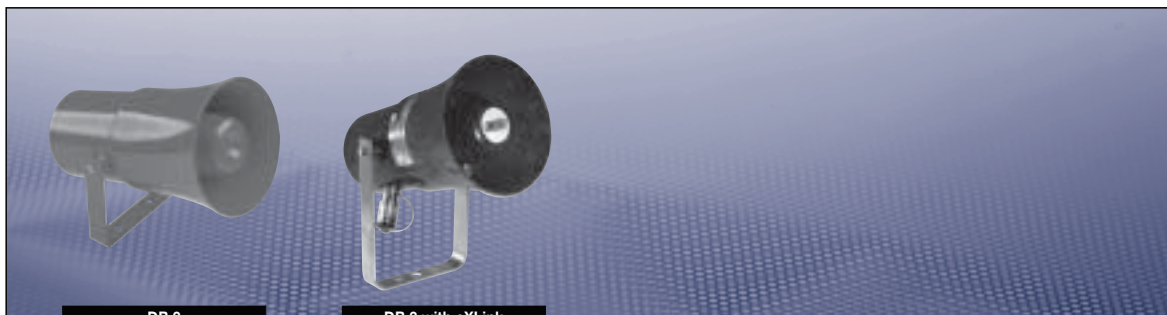
* For more options see www.medc.com or contact your local representative

Dimension drawing



Dimensions in mm

| Ex-118 dB(A) sounder |



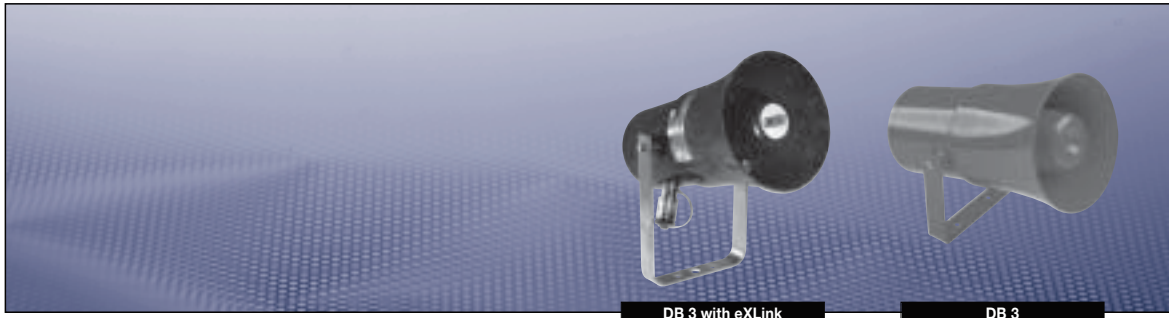
DB 3

DB 3 with eXLink

Technical data

DB 3			
Marking to 94/9/EC		 II 2G/D EEx d IIC T¹⁾  II 2G EEx de IIC T¹⁾	
EC-Type Examination Certificate			
Type DB 3/DB 4 EEx d IIC		Baseefa 00 ATEX 2097X	
Type DB 3/DB 4 EEx de IIC		Baseefa 00 ATEX 2098X	
UL Listed for USA and Canada		Class I, Div. 2, Groups A-D Class I, Zones 1 & 2, AExd IIC T4	
Listing No.		E203310	
GOST 'R' Certification		1Ex d IIC T4 & 1Exde IIC T4 Russian Fire Alarm (VNIPO) Approved	
GOST 'K' Certification		Ex d IIC T4	
Chinese (CQST) Certification		Ex d IIC T4	
Enclosure material	Body and horn Swivel bracket	glass reinforced polyester stainless steel	
Finish		Epoxy paint finish as standard or to customer's specification	
Max. sound levels	Long flare Short flare	= 115 ± 3 db(A) (tone dependant) = 108 ± 3 db(A) (tone dependant)	
Rated voltage and Rated current		12 V DC 760 mA 24 V DC 380 mA 48 V DC 190 mA 110 V AC 135 mA 120 V AC 124 mA 220 V AC 68 mA 230 V AC 65 mA 240 V AC 62 mA 254 V AC 59 mA	
Entries		up to 2 x 20 mm up to 2 x 1/2" NPT	
Weight		EEx d IIC: 6.0 kg EEx de IIC: 6.5 kg	
Rated terminal cross section		4 x 2.5 mm ² (AC) 6 x 2.5 mm ² (DC)	
Protection category to EN 60529		IP66 and IP67	
Permissible ambient temperature		EEx d EEx de	
DB3 & DB3P		-20 °C to +70 °C (T4) -20 °C to +45 °C (T5/T100 °C)	
DB3 L & DB3LP		-55 °C to +55 °C (T5) -55 °C to +70 °C (T4/T135 °C)	
UL		GOST 'R' (Ex d)	
DB3 & DB3P		-55 °C to +70 °C -20 °C to +50 °C	
DB3 L & DB3LP		n/a -55 °C to +55 °C	
GOST 'R' (Ex de)		CQST	
DB3 & DB3P		-20 °C to +40 °C -20 °C to +55 °C	
DB3 L & DB3LP		-55 °C to +55 °C n/a	

¹⁾ depend on ambient temperature



Ordering details

Catalogue No.	Certification	Description	Ordering Code
DB3D048N2BNRZ	ATEX Ex II 2GD	27 tones, no tag or duty labels, 12-48 V DC, 2 x M20 entries with one certified plug fitted, red finish	PX 803123
DB3PD048N2BNNZ	ATEX Ex II 2GD	27 tones, no tag or duty labels, 12-48 V DC, 2 x M20 entries with one certified plug fitted, black finish	PX 803121
DB3D240N2BNNZ	ATEX Ex II 2GD	27 tones, no tag or duty labels, 240 V AC, 2 x M20 entries with one certified plug fitted, black finish	PX 803122
DB3D240N2BNRZ	ATEX Ex II 2GD	27 tones, no tag or duty labels, 240 V AC, 2 x M20 entries with one certified plug fitted, red finish	PX 803124
DB3PUL048N2CNRZ	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	27 tones, two stage, no tag or duty labels, 108 dB(A) output, NEMA 4X & 6, 12-48 V DC, 2 x 1/2" NPT entries with certified plug, red finish	PX 869132
DB3UL048N2CNRZ	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	27 tones, no tag or duty labels, 108 dB(A) output, NEMA 4X & 6, 12-48 V DC, 2 x 1/2" NPT entries with certified plug, red finish	PX 869131
DB3UL110N2CNRZ	UL, cUL Listed, Class I, Div 2, Groups A, B, C, D	27 tones, no tag or duty labels, 108 dB(A) output, NEMA 4X & 6, 110 V AC, 2 x 1/2" NPT entries with certified plug, red finish	PX 869135

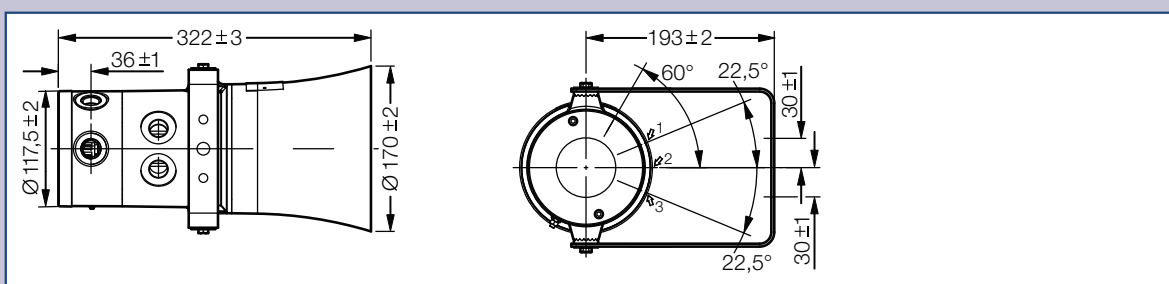
Ordering options*

Unit Type Details	Certification	Code	Voltage	Code	Label Code	Entries	Code	Features	Code	Finish	Code
DB 3 Standard unit	EEx d	D	12 - 48 V DC	048	Duty D	1 x 20 mm		Not required	N	Natural	
DB 3 P Two stage (DC only)	EEx de	E	110 V AC	110	Tag T	(EEx d)	1B	End of line		Black	N
DB 3 L* Low temp. standard unit	UL Listed	UL	120 V AC	120	None N	2 x 20 mm		resistor	E	Red	R
DB 3 LP* Low temp. two stage (DC only)	ATEX/UL		220 V AC	220		(EEx d/EEx de)	2B	Special tone	S	Special finish	S¹⁾
	Dual Listed	AU	230 V AC	230		1 x 1/2" NPT					
	GOST 'R' Exd	DG	240 V AC	240		(UL only)	1C				
	GOST 'R' Exde	EG	254 V AC	254		2 x 1/2" NPT					
	GOST 'K' Exd	DK				(UL only)	2C				
	Chinese (CQST)	Q									

¹⁾ Customer to specify

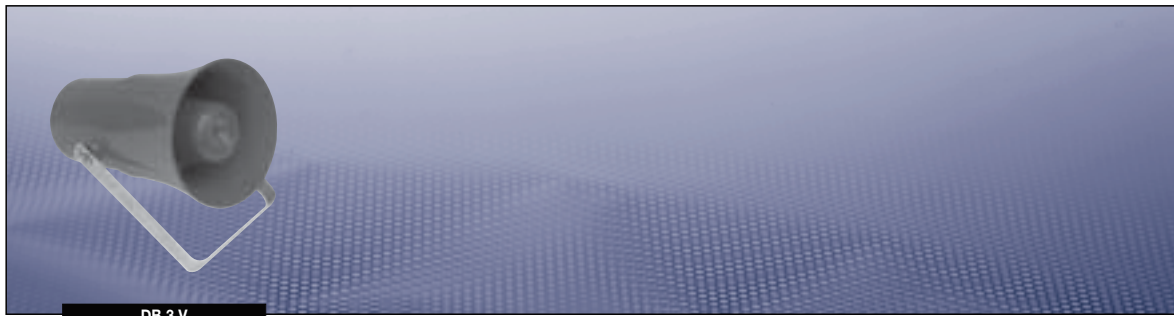
* For more options see www.medc.com or contact your local representative

Dimension drawing



Dimensions in mm

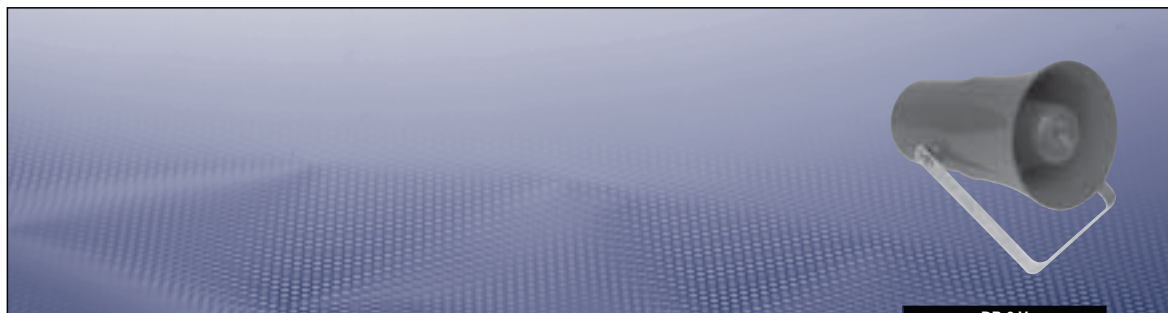
Ex-110 dB(A) voice sounder



DB 3 V

Technical data

DB 3 V			
Marking to 94/9/EC		II 2G/D EEx d IIC T¹⁾ II 2G EEx de IIC T¹⁾	
EC-Type Examination Certificate			
Type DB 3/DB 4 EEx d IIC		Baseefa 00 ATEX 2097X	
Type DB 3/DB 4 EEx de IIC		Baseefa 00 ATEX 2098X	
GOST 'R' Certification		1Ex d IIC T4 & 1Ex de IIC T4 Russian Fire Alarm (VNIIP) Approved	
GOST 'K' Certification		Ex d IIC T4	
Chinese (CQST) Certification		Ex d IIC T4	
Permissible ambient temperature ¹⁾		EEx d	EEx de
	DB3 V	-20 °C to +70 °C (T4)	-20 °C to +45 °C (T5/T100 °C)
	DB3 LV	-55 °C to +55 °C (T5)	-55 °C to +70 °C (T4/T135 °C)
		GOST 'R' & 'K' Exd	GOST 'R' Exde
	DB3 V	-20 °C to +55 °C	-20 °C to +40 °C
	DB3 LV	-55 °C to +55 °C	-55 °C to +55 °C
		Chinese Exd	
	DB3 V	-20 °C to +55 °C	
	DB3 LV	n/a	
Rated voltage and Rated current		12 V DC	1200 mA
		24 V DC	600 mA
		48 V DC	300 mA
Rated terminal cross section		6 x 2.5 mm² (DC)	
Voice recording		up to 20 sec.	
Max. sound levels		= 110 ± 3 db(A) (tone dependant) (controlled by potentiometer)	
Protection category to EN 60529		IP66 and IP67	
Entries		up to 2 x 20 mm	
Weight		6.0 kg	
Enclosure material	Body and horn	glass reinforced polyester	
	Swivel bracket	stainless steel	
Finish		Epoxy paint finish as standard or to customer's specification	



Ordering options*

Unit Type	Details	Certification	Code	Label	Code	Entries	Code	Finish	Code
DB 3 V	Voice unit	ATEX EEx d	D	Duty	D²⁾	1 x 20 mm (EEx d)	1B	Natural Black	N
DB 3 LV¹⁾	Low temp. voice unit	ATEX EEx de	E	Tag	T²⁾	2 x 20 mm (EEx d/EEx de)	2B	Red	R
		GOST 'R'	DG	End of resistor	E³⁾			Special finish	S⁴⁾
		GOST 'K'	DK	Message	M				
		Chinese		Bell tone	O				
		(CQST)	Q	None	N				

¹⁾ Available unpainted only

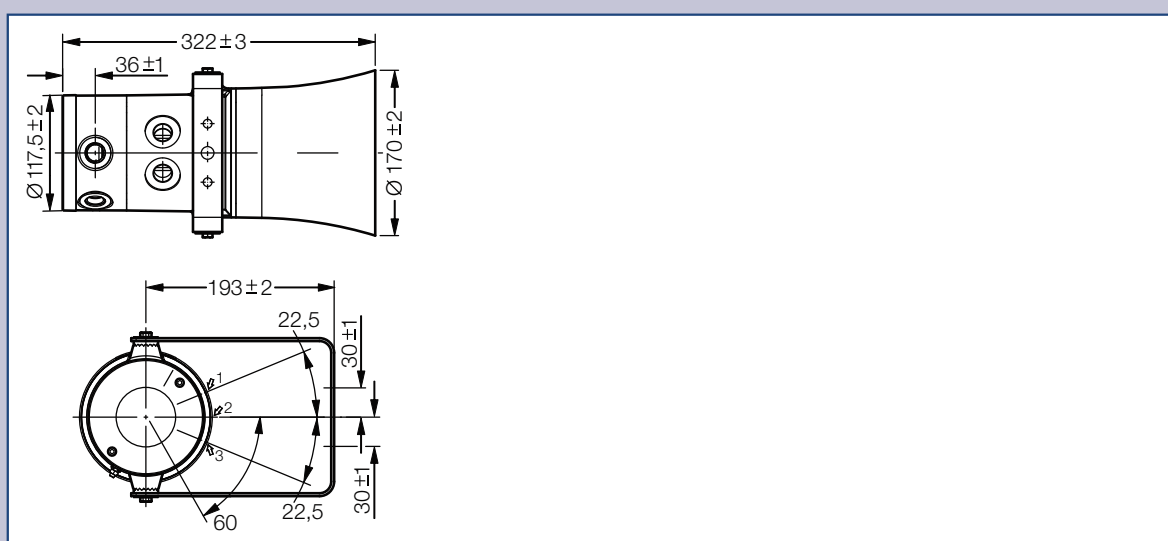
²⁾ Please specify wording

³⁾ _ state value

⁴⁾ Please specify

* For more options see www.medc.com or contact your local representative

Dimension drawing



Dimensions in mm

Ex-103 dB(A) sounder



DB 5

Technical data

DB 5

Marking to 94/9/EC	II 1G EEx ia IIC T4
EC-Type Examination Certificate	Baseefa 00 ATEX 1259
HSE(M) to EN50014, EN50020 and EN50303	EEx ia 1
Cert. No.	MECS01ATEX4260 (unit) and 94Y7095 (system)
FM Approved	Class I, Div. 1 groups A, B, C, and D. J.I. 3008604
CSA to	C22.2 Nos. 0, 0.4, 0.5, 25, 30, 205
	Class 1, Groups A, B, C and D
Permissible ambient temperature	-20 °C to +55 °C
Rated voltage and Rated current	DB5B012NR 12 V DC 12 mA
	DB5B024NR 24 V DC 14 mA
Max. sound levels	100 ± 3 db(A) (tone dependant)
Rated terminal cross section	6 x 2.5 mm ² (DC)
Protection category to EN 60529	IP65
Entries	up to 1 x 21 mm each side or 1 x 21 mm rear
Weight	0.3 kg
Enclosure material	Acrylonitrile butadiene styrene
Finish	Red as standard

Ordering details

Catalogue No.	Certification	Description	Ordering Code
DB5B012NR	ATEX Approved Ex II 1G	Intrinsically safe, 26 tones, 93 dB(A) output, 12 V DC, up to 3 x M20 entries via knockouts, no labels, natural red finish	PX 805001
DB5B024NR	ATEX Approved Ex II 1G	Intrinsically safe, up to 3 x M20 entries via knockouts, 24 V DC up to 3 x M20 entries via knockouts, no labels, natural red finish	PX 805002
DB5FM024NR	FM Approved for Class I, Div 1 & 2, Groups A, B, C, D	Intrinsically safe, 26 tones, 93 dB(A) output, no tag or duty labels, 24 V DC, 2 x 13/16" entries via knockouts, natural red finish	PX 869150

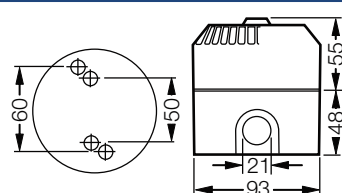
Ordering options*

Unit Type	Certification	Code	Voltage	Code	Label	Code	Finish	Code
DB 5	BASEEFA GP 1 (12 V only)	M	12 V	012	None	N	Red	R
	BASEEFA GP 2	B	24 V	024	Yes	Y	Special finish	S¹⁾
	FM	FM						

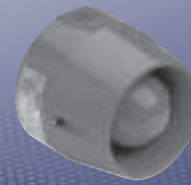
¹⁾ Please specify

* For more options see www.medic.com or contact your local representative

Dimension drawing



Dimensions in mm



DB 7

Technical data

DB 7

Marking to 94/9/EC	Ex II 1G EEx ia IIB T4 Ex II 1G EEx ia IIC T4
EC-Type Examination Certificate	Baseefa 00 ATEX 1260
GOST 'R' Certification	0Exia IIC T4, 0Exia IIB T4
Permissible ambient temperature	-55 °C to +70 °C
Rated voltage and Rated current	12 V DC 25 mA to 55 mA 24 V DC 34 mA to 68 mA
Rated terminal cross section	8 x 2.5 mm ²
Max. sound levels	12 V/24 V IIB 107 ± 3 db(A) at 1 metre 12 V/24 V IIC 103 ± 3 db(A) at 1 metre
Protection category to EN 60529	IP65
Entries	up to 3 x M20
Weight	1.0 kg
Enclosure material	Glass reinforced polyester
Finish	Self coloured red as standard or epoxy coated to customer's specification

Ordering details

Catalogue No.	Certification	Description	Ordering Code
DB7PBB024NR	ATEX Approved Ex II 1G, EExia, IIB & IIC, T4	110 dB(A) output, GRP, 24 V DC, up to 3 x M20 entries via knockouts, no labels, choice of 26 tones, natural red	PX 807006

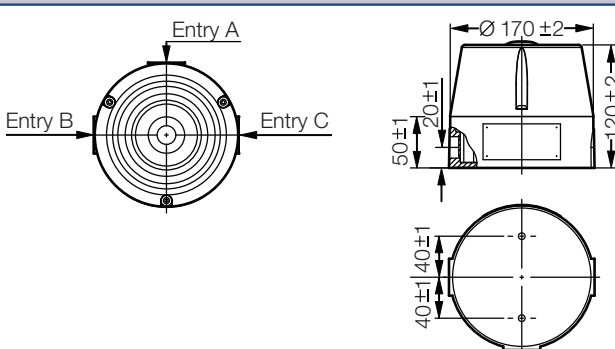
Ordering options*

Unit Type	Certification	Code	Voltage	Code	Label	Code	Finish	Code
DB 7P	ATEX IIB	BB	12 V	012	Duty	D ¹⁾	Red	N
	ATEX IIC	BC	24 V	024	Tag	T ¹⁾	Special finish	S
	GOST 'R' IIB	GB			None	N		
	GOST 'R' IIC	GC						

¹⁾ Please specify

* For more options see www.medc.com or contact your local representative

Dimension drawing



Dimensions in mm

E X - S P E A K E R S

Explosion protected units for Zone 0, 1, 2, 22, Class I, Div 2, GOST

This range of loudspeakers, intended for use in potentially explosive gas and dust atmospheres, can have a power rating of up to 30 watts and is suitable for use in all gas groups including hydrogen. The flamepaths, and the 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. An optional Ex-e terminal chamber is available on some units. An uncertified version is available for use in non-explosive atmospheres. Models compliant to BS 5839, part 8 are available.

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UL listed for USA and Canada:

**– Class I, Div 2, Groups A-D –
Class I, Zones 1 & 2, AECd IIC, T4
GOST 'R' & 'K' certified.**

Australian (SAA) certified.

Optional Ex-e terminal chamber

IP66 and IP67

Certified temperature -55 °C to +70 °C

GRP corrosion-free flamepaths

Up to 122 dBA at 30 watts at 1 metre

BS 5839, part 8 compliant versions available

Addressable capability

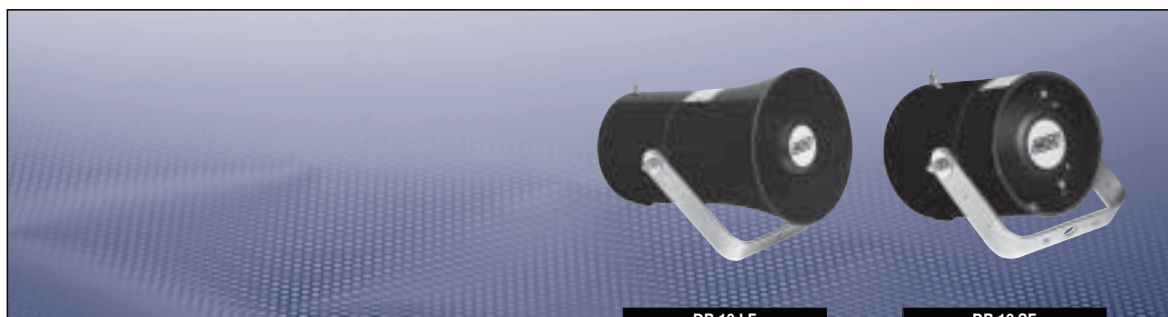
Power tapings, via integral transformer

Ratcheted swivel bracket

Stainless steel sinter

Stainless steel mounting bracket





Technical data

DB 10		
Marking to 94/9/EC	II 2G EEx d IIB +H2 T ¹⁾	
EC-Type Examination Certificate	BAS 02 ATEX 2086X	
GOST 'R' Certification	2 Exde IIB + H2 T4/T5/T6	
GOST 'K' Certification	Exde IIB + H2 T4/T5/T6	
Chinese (CQST) Certification	Exde IIB + H2 T4/T5/T6	
Permissible ambient temperature ¹⁾	T6: -55 °C to +40 °C T5: -55 °C to +55 °C T4: -55 °C to +70 °C	
Rated power	8 or 15 W RMS continuous at +25 °C	
Rated terminal cross section	8 x 2.5 mm ² or 4 x 2.5 mm ²	
Output	long flare (15 W)	maximum output at 1 W/1 m at 2 kHz is 105 dBA
		maximum output at 15 W/1 m at 2 kHz is 115 dBA
	short flare (8 W)	maximum output at 1 W/1 m at 2 kHz is 98 dBA
		maximum output at 8 W/1 m at 2 kHz is 107 dBA
Frequency range	400 Hz to 8 kHz	
Voice coil impedance	8 Ω	
Transformer	100 V line as standard	
Protection category to EN 60529	IP66/IP67	
Entries	1 x M20 EEx d/2 x M20 ISO EEx e	
Weight	15 W 3.0 kg / 8 W 2.5 kg	
Enclosure material	Anti-static, UV stable, glass reinforced polyester, mounting stirrup and fixtures in stainless steel	
Finish	All natural or body and horn can be painted to client's requirements	

Ordering details

Type	Description	Ordering Code
DB108XN2BPN	8 Watt (short flare), 100 V transformer, 2 x M20 entries with 1 certified plug fitted, natural black	PX 807915
DB1015XN2BPN	15 Watt (short flare), 100 V transformer, 2 x M20 entries with 1 certified plug fitted, natural black	PX 807908

Ordering options*

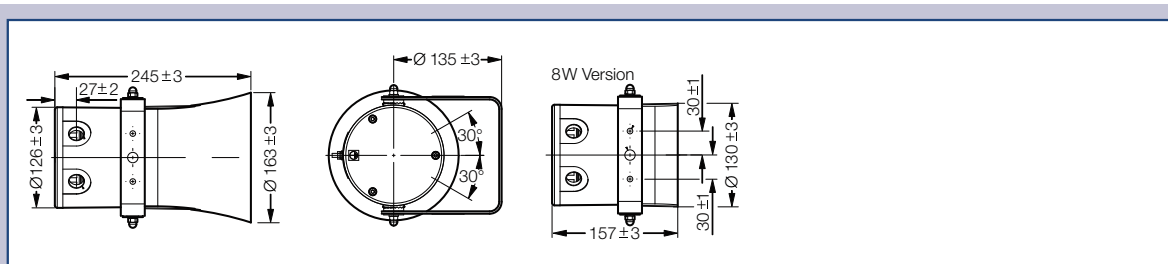
Unit Type	Certification	Code	max. rated Power	Code	Transformer	Code	Options	Code	Entries	Code	Colour	Code
DB 10 ¹⁾	ATEX	B	8 W	8	Yes	X ²⁾	Duty	D	1 x M20	1B	Natural black	N
	GOST 'R'	R	15 W	15	8 Ω version	N	Tag	T	2 x M20	2B	Red	R
	GOST 'K'	K					None	N	2 x M20 entries	2BP ³⁾	Special	S
	Chinese (CQST)	Q										

¹⁾ For more options see www.medc.com or contact your local representative.

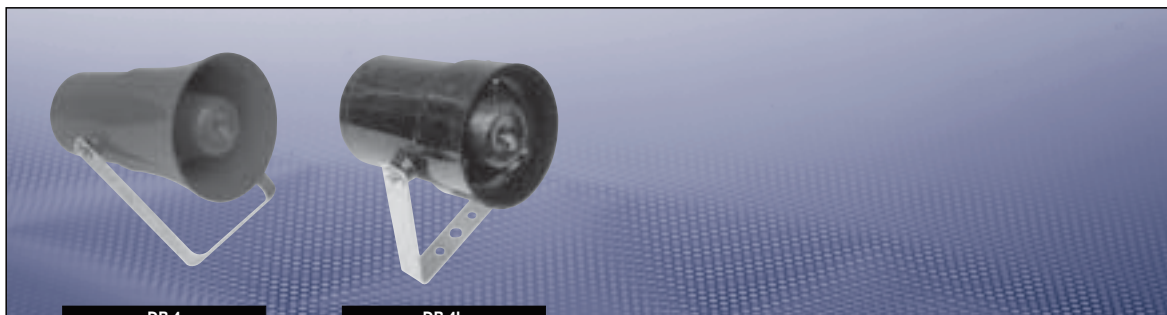
²⁾ Std. 100 V, other values are available

³⁾ With one certified plug fitted.

Dimension drawing

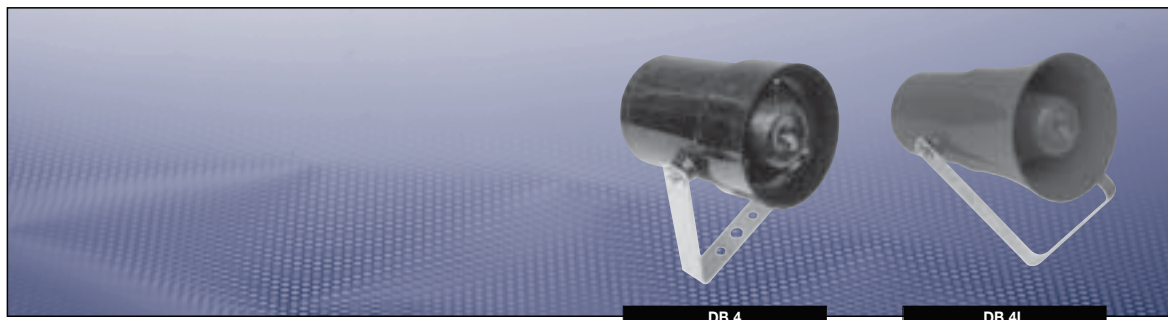


Ex-8/25 watt speaker



Technical data

DB 4 DB 4L		
Marking to 94/9/EC		II 2G/D EEx d IIC T4 T135 °C
EC-Type Examination		EEx d BAS 00 ATEX 2097X
Certificate		EEx ed BAS 00 ATEX 2098X
UL listed for USA and Canada		Class I, Div 2, Groups A-D
		Class I, Zones 1 & 2, AExd IIC T4
GOST 'R' Certification		1Exd IIC T4 & 1Exde IIC T4
		Russian Fire Alarm (VNIIP) approved
GOST 'K' Certification		Exd IIC T4
Permissible ambient temperature	DB 4 ≤ 15 W	-20 °C to +70 °C
	DB 4 > 15 W	-20 °C to +55 °C
	DB 4L ≤ 15 W	-55 °C to +70 °C
	DB 4L > 15 W	-55 °C to +55 °C
Rated power		8 W, 15 W, 20 W or 25 W RMS continuous at +25 °C
Rated terminal cross section		8 x 2.5 mm ²
Frequency range		400 Hz to 8 kHz
Voice coil impedance		8 Ω
Transformer		100 V line as standard
Protection category to EN 60529		IP66/IP67
Entries		max. 2 x M20 EEx d/2 x M20 into EEx e chamber
Weight	EEx d	5.0 kg dependet on model
	EEx de	+0.5 kg
Enclosure material		Anti-static, UV stable, glass reinforced polyester; swivel bracket in stainless steel; captive cover screws in stainless steel
Finish		All natural or body and horn can be painted to client's requirements
Output	long flare (>8 W)	maximum output at 1 W/1 m is 107 dBA maximum output at 25 W/1 m is 119 dBA
	short flare (8 W)	maximum output at 1 W/1 m is 100 dBA maximum output at 8 W/1 m is 109 dBA



Ordering details

Catalogue No.	Certification	Description	Ordering Code
DB415DXN2BNZ	ATEX Approved Ex II 1G	15 watt 100 V line transformer, no labels, 2 x M20, one certified plug, flameproof enclosure, natural black finish	PX 804215
DB425DXN2BNZ	ATEX Approved Ex II 1G	25 watt 100 V line transformer, no labels, 2 x M20, one certified plug, flameproof enclosure, natural black finish	PX 804225
DB425ULNT2CRZ	UL, cUL Listed Class I, Div 2, Groups A, B, C, D	25 watt high-output version, direct connection 8 Ohm, Label = ABS Approved, 2 x 1/2" NPT entries, red finish	PX 869145
DB425ULXN2CR	UL, cUL Listed Class I, Div 2, Groups A, B, C, D	25 watt 100 V line transformer, no labels, 2 x 1/2" NPT entries, red finish	PX 869142
DB425ULXN2CR	UL, cUL Listed Class I, Div 2, Groups A, B, C, D	25 watt 70 V line transformer, no labels, 2 x 1/2" NPT entries, red finish	PX 869144

Ordering options*

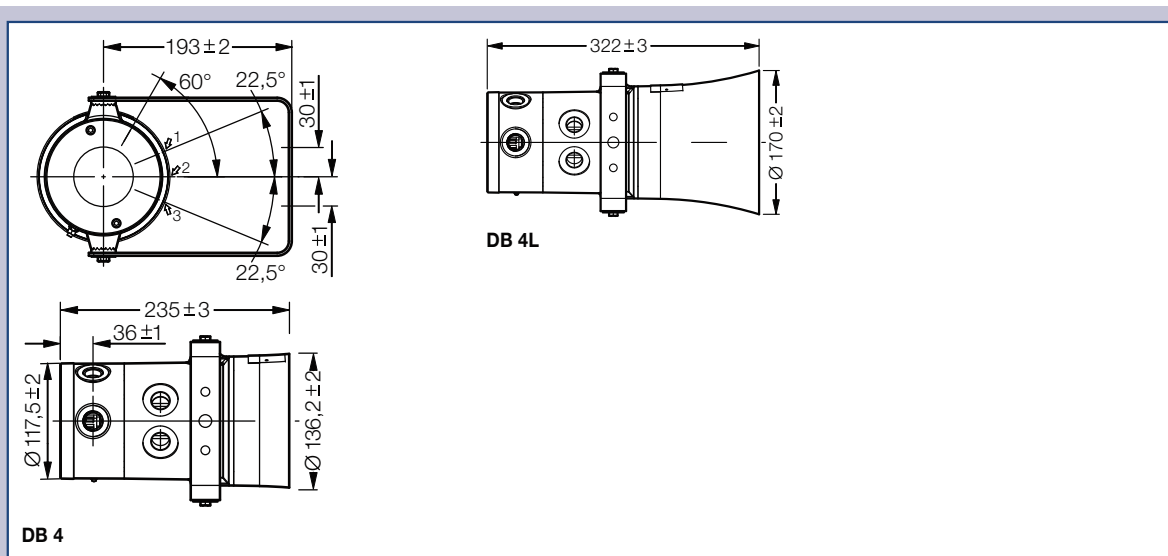
Unit Type	max. rated Code		Certification	Code	Transformer Code		Options	Code	Entries	Code	Colour	Code
DB 4	8 W	8	EEx d	D	Yes	X ¹⁾	Duty	D	1 x M20 EEx d	1B	Natural Black	N
DB 4L	15 W	15	EEx de	E	8 Ω version	N	Tag	T	2 x M20 EEx d/		Red	R
	20 W	20	UL listed	UL			Earth continuity	E	EEx e	2B	Special	S ²⁾
	25 W	25	EExd BS 5839 part 8	D8			None	N				
			GOST 'R' Exd	GD								
			GOST 'R' Exde	GE								
			GOST 'K' Exd	KD								

¹⁾ Std. 100 V, other values are available

²⁾ Please specify

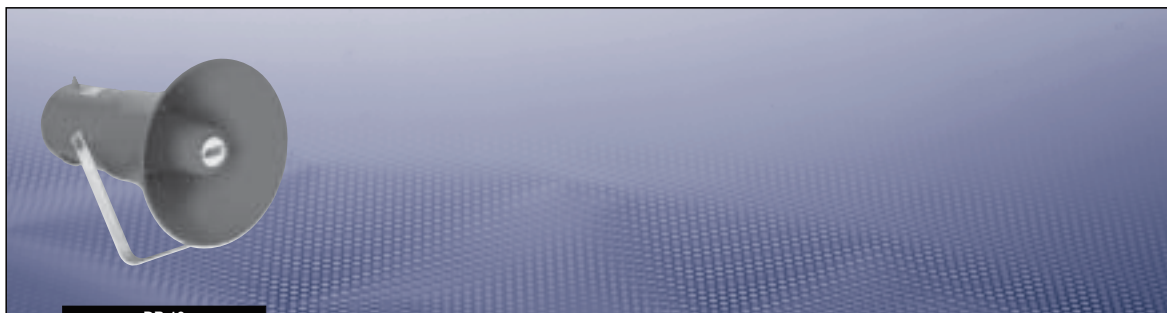
* For more options see www.medc.com or contact your local representative

Dimension drawing



Dimensions in mm

Ex-25/30 watt speaker

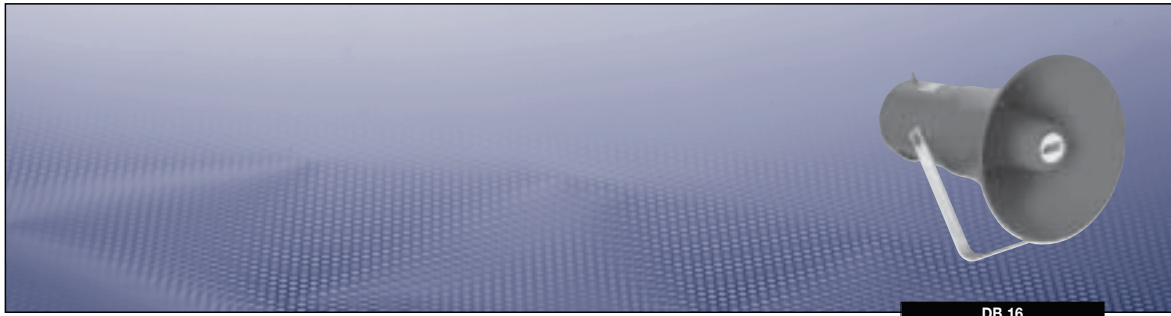


DB 16

Technical data

DB 16

Marking to 94/9/EC	EEx IIB	II 2G EEx de IIB T3
	EEx IIC	II 2G/D EEx de IIC T4 T110 °C IP6X
EC-Type Examination	EEx IIB	Baseefa 04 ATEX 0167X
Certificate	EEx IIC	Baseefa 04 ATEX 0166X
UL Listed for USA and Canada		Class I, Div 2, Groups C & D Class I, Zone 1 AExde IIB T3 Class I, Div 2, Groups A-D Class I, Zone 1 AExde IIC T110 °C
GOST 'K' Certification		1Exde IIC T4/IIB T3
Permissible ambient temperature	30 W version	-50 °C to +40 °C
	25 W version	-50 °C to +65 °C
Rated power		30 W RMS continuous at +25 °C
Frequency range		370 Hz to 8 kHz
Voice coil impedance		8 Ω
Transformer		100 V line as standard
Protection category to EN 60529		IP66/IP67
Entries		max. 2 x M20/2 x M25 into EEx e chamber
Weight		5.5 kg approx.
Enclosure material		Body & horn in anti-static, UV stable, glass reinforced polyester Mounting stirrup and fixtures in stainless steel
Finish		All natural or body and horn can be painted to client's requirements
Output	IIB version	maximum output at 1 W/1 m is 117 dBA maximum output at 25 W/1 m is 121 dBA maximum output at 30 W/1 m is 122 dBA
	IIC version	maximum output at 1 W/1 m is 107 dBA maximum output at 25 W/1 m is 118 dBA maximum output at 30 W/1 m is 119 dBA
Rated terminal cross section		8 x 2.5 mm ²



DB 16

Ordering details

Catalogue No.	Certification	Description	Ordering Code
DB16UCXN2MPN	UL, cUL Listed, Class I, Div 2, Groups C & D	Unit suitable for gas Groups A, B, C, D, 70V line transformer, 2 x 1/2" NPT, one certified plug, natural black finish	PX 28600006

Ordering options*

Unit Type	Certification	Code	max. rated Power	Code	Transformer	Code	Options	Code	Entries	Code	Colour	Code
DB 16	ATEX IIB	BB	25 W	25	Yes	X ³⁾	Duty	D	1 x M20	1B ⁴⁾	Natural black	N
	ATEX IIC	BC	30 W	30	8 Ω version	N	Tag	T	2 x M20	2B ⁴⁾	Red	R
	UL (C & D)1)	UB					Earth continuity	E	1 x M25	1C ⁴⁾	Special	S ⁵⁾
	UL (A-D)2)	UC					Earth stud	B	2 x M25	2C ⁴⁾		
	GOST 'K' IIB	KB					None	N				
	GOST 'K' IIC	KC										

¹⁾ Suitable for gas groups C & D

²⁾ Suitable for gas groups A – D

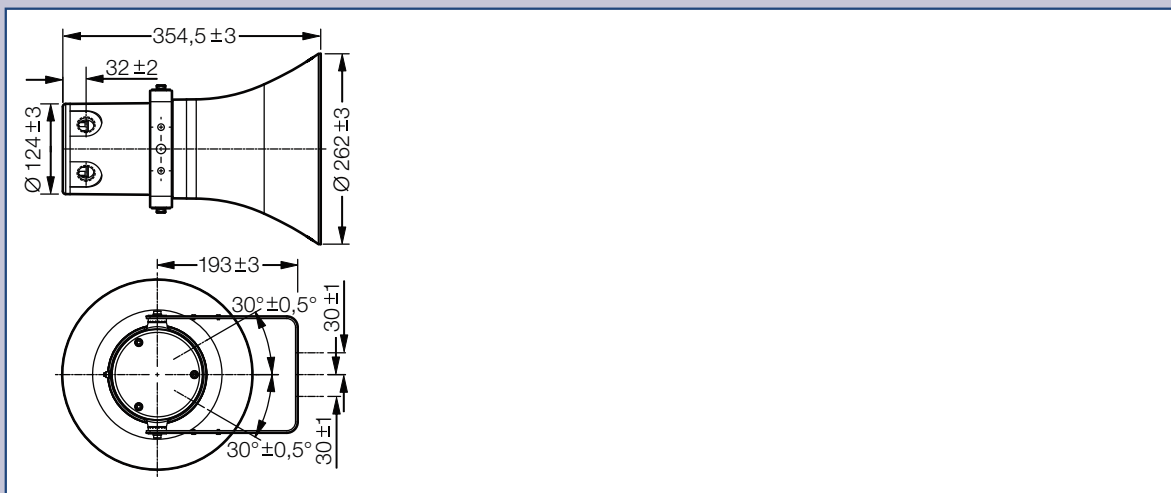
³⁾ Std. 100 V, other values are available

⁴⁾ To specify certified plug, suffix appropriate code with "P"

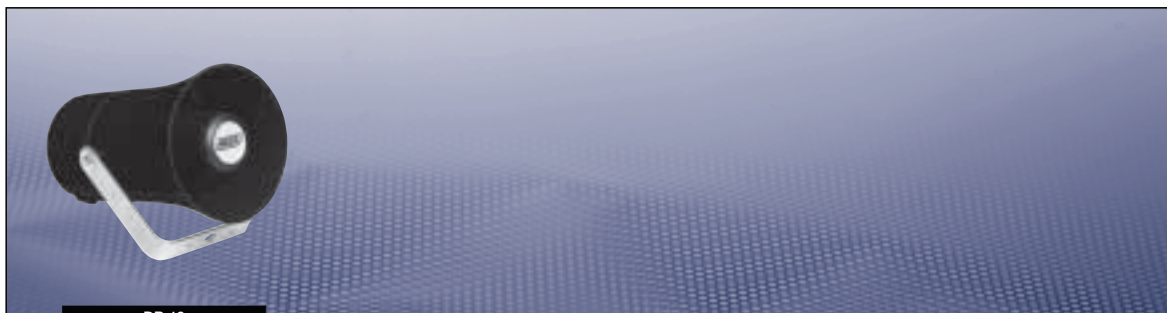
⁵⁾ Please specify

* For more options see www.medc.com or contact your local representative

Dimension drawing



Dimensions in mm

| Ex-15 watt speaker |**DB 18****Technical data**

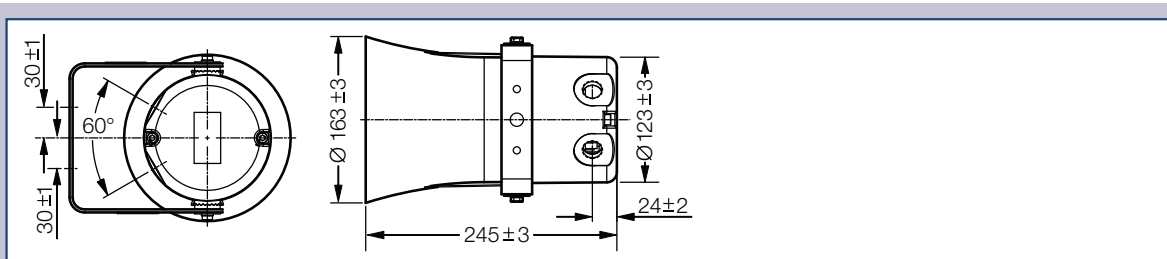
DB 18	
Marking to 94/9/EC	Ⓔ II 3G/D EEx nA II T135 °C
Compliance	CENELEC EN 50014, EN 50021
Permissible ambient temperature	-55 °C to +55 °C
Rated power	15 W RMS continuous at +25 °C
Rated terminal cross section	8 x 2.5 mm ²
Frequency range	400 Hz to 7 kHz
Voice coil impedance	8 Ω
Transformer	100 V line as standard
Protection category to EN 60529	IP66/IP67
Entries	max. 2 x M20 EEx d/1 x M20 into EEx e chamber
Weight	2.6 kg
Enclosure material	Anti-static, UV stable, glass reinforced polyester; swivel bracket in stainless steel; captive cover screws in stainless steel
Finish	All natural or body and horn can be painted to client's requirements
Output	maximum output at 1 W/1 m at 900 Hz is 107 dBA maximum output at 15 W/1 m at 900 Hz is 117 dBA

Ordering details

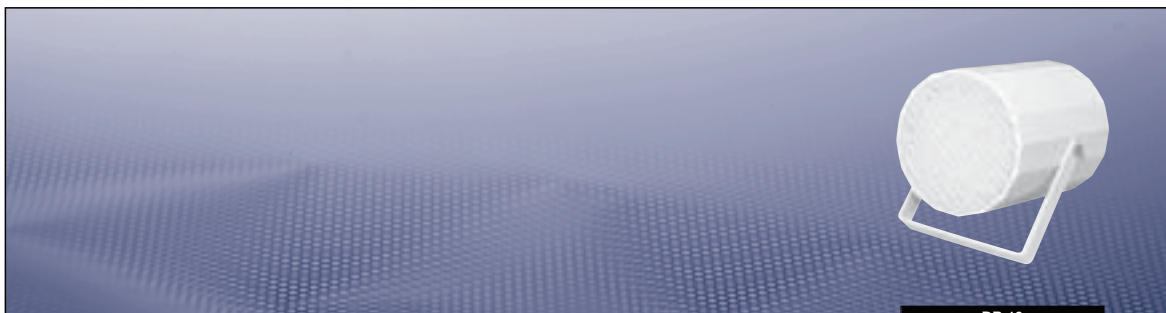
Catalogue No.	Certification	Description	Ordering Code
DB18XNN	ATEX approved Ex II 3G/D	15 Watt, 100 V line transformer, 2 x M20 entries, natural black finish	PX 808401

Ordering options*

Unit Type	Transformer	Code	Options	Code	Entries	Code	Colour	Code
DB 18	Yes	X¹⁾	Duty	D	1 x M20 EEx d	1B	Natural black	N
	Transf. and 8 Ω terminals	X8	Tag	T	2 x M20 EEx d/EEx e	2B	Red	R
	8 Ω version	N	Earth continuity	E			Special	S²⁾
			Blanking plug	P				
			None	N				

¹⁾ Std. 100 V, other values are available²⁾ Please specify* For more options see www.medc.com or contact your local representative**Dimension drawing**

Dimensions in mm



DB 19

Technical data

DB 19	
Marking to 94/9/EC	Ex II 3G/D EEx nA II T135 °C
Compliance	CENELEC EN 50014, EN 50021
Permissible ambient temperature	-55 °C to +55 °C
Rated power	15 W RMS continuous at +25 °C
Frequency range	120 Hz to 20 kHz
Voice coil impedance	12.5 k, 7.7 k, 3.7 k, 2.5 k, 1.3 kΩ, 666 Ω
Transformer	100 V line as standard
Protection category to EN 60529	IP54
Entries	M20 gland
Weight	2.6 kg
Enclosure material	Body in aluminium Mounting stirrup and fixtures in stainless steel
Finish	Powder coated white to RAL 9010 as standard – can be painted to clients requirements
Output	maximum output at 1 W/1 m at 900 Hz is 92 dBA maximum output at 15 W/1 m at 900 Hz is 104 dBA
Rated terminal cross section	4 x 2.5 mm ²

Ordering details

Catalogue No.	Certification	Description	Ordering Code
DB19XNN	ATEX approved Ex II 3G/D	15 Watt, 100 V line transformer, white to RAL 9010	PX 808501

Ordering options*

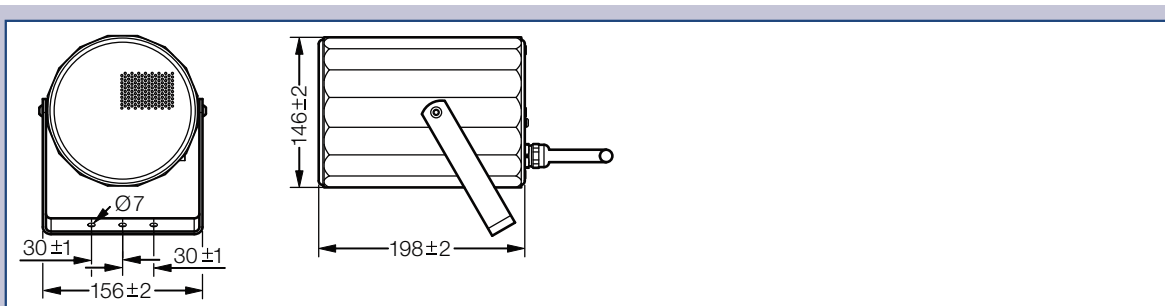
Unit Type	Transformer	Code	Colour	Code
DB 19	Yes	X ¹⁾	Natural black	N
	8 Ω version	N	Red	R
			Special	S ²⁾

¹⁾ Std. 100 V, other values are available

²⁾ Please specify

* For more options see www.medic.com or contact your local representative

Dimension drawing

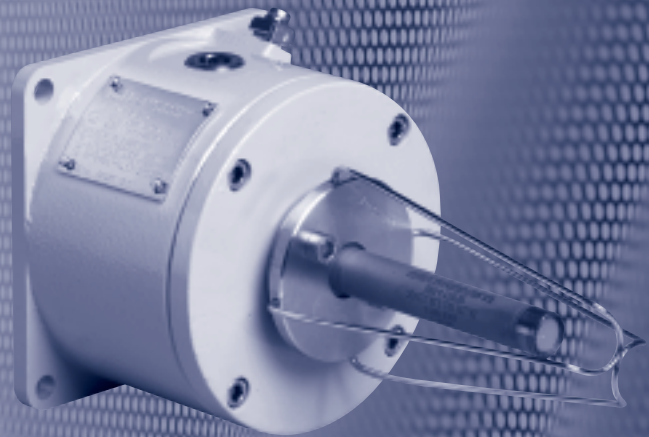
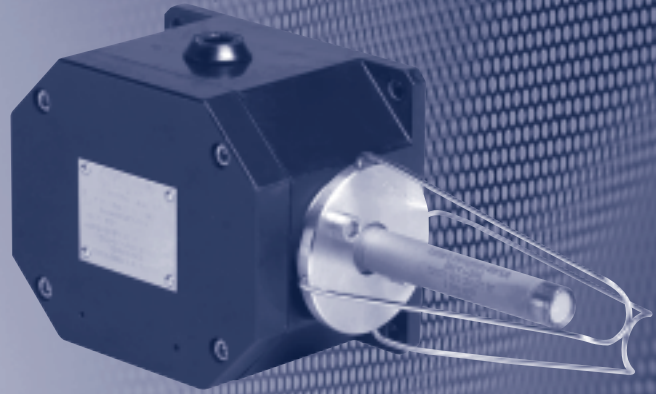


Dimensions in mm

E X - H E A T D E T E C T O R

Explosion protected units for Zone 0, 1, 2 and 22

The MEDC-Hawco 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 (EEx d version) or JB10 corrosion-free GRP enclosure (EEx ia, EEx em/UL versions). The contact in the detector CLOSES at alarm temperature.



UL listed for USA and Canada

– Class I, Div 2, Groups A-D

GOST 'R' & 'K' certified.

Chinese (CQST) certified.

IP66 & IP67

Certified temperature:

–20°C to +125°C (EExd).

–20°C to +55°C (EExem/UL).

–55°C to +55°C (EExia)

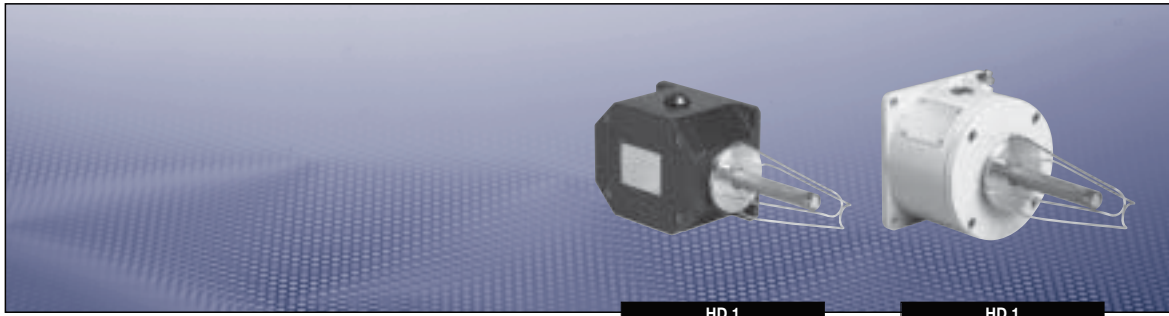
Stainless steel probe

Detector temperature settings:

60°C to 385°C, (140°F to 725°F)*

Marine grade alloy or GRP enclosure

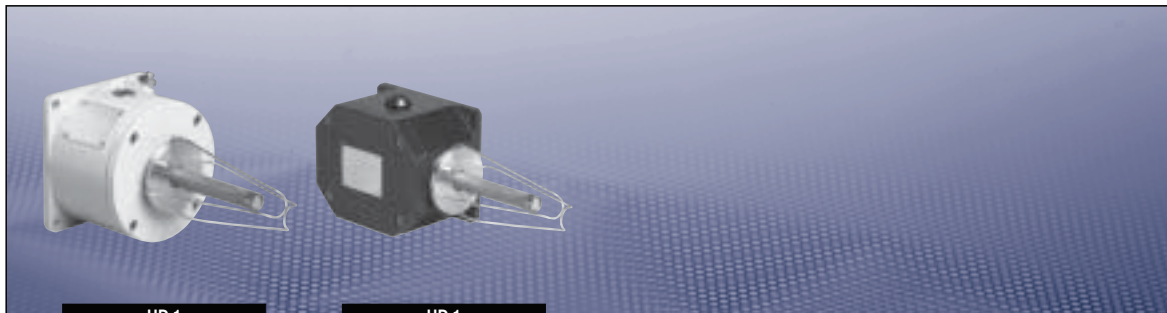
Optional guard



Technical data

HD 1		
Marking to 94/9/EC		Ⓔ II 2G EEx em II T6 Ⓔ II 1G EEx ia II T6 Ⓔ II 2G EEx d IIB T6
Listed temperature settings/Colour Code ¹⁾		60 ± 4 °C (140 °F) black / 71 ± 4 °C (160 °F) black 88 ± 4 °C (190 °F) white / 107 ± 4 °C (225 °F) white 135 ± 6 °C (275 °F) blue / 163 ± 6 °C (325 °F) red 182 ± 6 °C (360 °F) red / 232 ± 8 °C (450 °F) green 316 ± 11 °C (600 °F) orange / 385 ± 14 °C (725 °F) orange
EC-Type Examination Certificate		Baseefa 03 ATEX 0447
UL listed for USA and Canada		Class I, Div 2, Groups A, B, C & D
UL Listing No.		E252920
GOST 'R' & 'K' Certification		Exd, Exi & Exem versions Russian Fire Alarm (VNIPO) approved
Chinese Certification CQST		Exd, Exi & Exem versions
Permissible ambient temperature	EEx d T3	-20 °C to +125 °C
	T6	-20 °C to +55 °C
	T4	-55 °C to +55 °C
Rated terminal cross section		6 x 4 mm ²
Operation		NO contact – CLOSSES on alarm temperature
Contact rating	EEx d/EEx em	125 V AC – 5A, 125 V DC – 0.5A, 48 V DC – 1A
	EEx ia	30 V – 300 mA
Resistor		Series & EOL resistor (Maximum total 2) minimum value (Each) 470 Ω – only available in Exd, Exi & UL versions
Protection category to EN 60529		IP66/IP67
Entries		2 x M20
Weight		EEx d: 2.0 kg / EEx ia/EEx em: 1.1 kg
Detector material		316 stainless steel
Enclosure material		EEx d: LM25 marine grade alloy EEx ia/EEx em/UL – GRP (anti static): stainless steel cover screws
Finish	Detector	Sand blasted
	Enclosures	EEx d - Epoxy painted grey as standard or to customer's specification EEx ia/EEx em/UL – Self coloured black or epoxy painted to customer's specification

Ex-heat detector



Ordering details

Catalogue No.	Certification	Description	Ordering Code
HD1ULE140GN	UL, cUL, Class I, Div 2, Groups A, B, C, D Class I, Zone 2, IIC	Temperature setting 140° F, 60° C, black detector tip, tolerance +7/-8° F, ±4° C	PX 46500152
HD1ULE160GN	UL, cUL, Class I, Div 2, Groups A, B, C, D Class I, Zone 2, IIC	Temperature setting 160° F, 71° C, black detector tip, tolerance +7/-8° F, ±4° C	PX 46500153
HD1ULE190GN	UL, cUL, Class I, Div 2, Groups A, B, C, D Class I, Zone 2, IIC	Temperature setting 190° F, 88° C, white detector tip, tolerance +7/-8° F, ±4° C	PX 46500154
HD1ULE225GN	UL, cUL, Class I, Div 2, Groups A, B, C, D Class I, Zone 2, IIC	Temperature setting 225° F, 107° C, white detector tip, tolerance +7/-8° F, ±4° C	PX 46500155
HD1ULE275GN	UL, cUL, Class I, Div 2, Groups A, B, C, D Class I, Zone 2, IIC	Temperature setting 275° F, 135° C, blue detector tip, tolerance ±10° F, ±6° C	PX 46500156
HD1ULE325GN	UL, cUL, Class I, Div 2, Groups A, B, C, D Class I, Zone 2, IIC	Temperature setting 325° F, 163° C, red detector tip, tolerance ±10° F, ±6° C	PX 46500157
HD1ULE360GN	UL, cUL, Class I, Div 2, Groups A, B, C, D Class I, Zone 2, IIC	Temperature setting 360° F, 182° C, red detector tip, tolerance ±10° F, ±6° C	PX 46500158
HD1ULE450GN	UL, cUL, Class I, Div 2, Groups A, B, C, D Class I, Zone 2, IIC	Temperature setting 450° F, 232° C, green detector tip, tolerance ±15° F, ±8° C	PX 46500159

Ordering options*

Model	Certification	Code	Cert. Type	Code	Temperatur settings ¹⁾	Code	Options	Code	Enclosure Finish	Code
HD 1	ATEX	B	Ex d	D³⁾	140 °F	140	Duty label	D	Natural black	N
	UL listed	UL	Ex em	E	.	.	Tag label	T	Grey	G
	ATEX/UL dual listed	AU	Ex i	I	.	.	Guard	G	Red	R
	GOST 'R'2)	G	UL	U	.	.	Resistor EOL	E	Blue	B
	GOST 'K'	K			.	.	Resistor series	S	Yellow	Y
	Chinese (CQST)	Q			.	.	Diode(s)	I⁴⁾	Special finish	S
					.	.	Blanking plug	P		
					725 °F	725	None	N		

¹⁾ See technical data

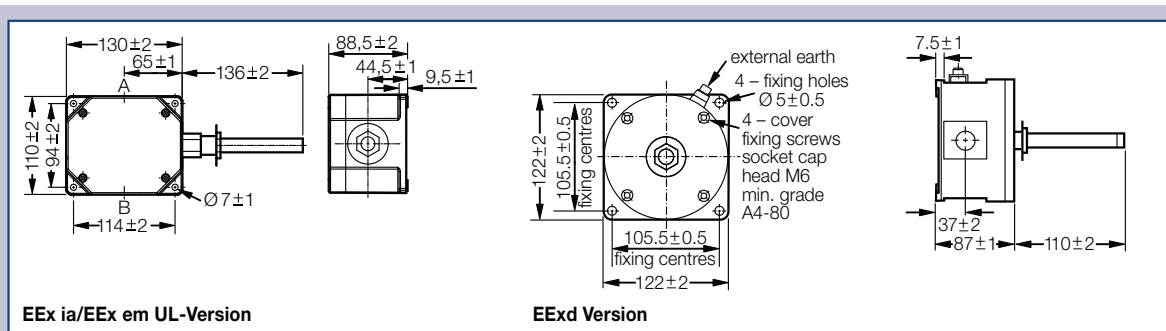
²⁾ VNIPO approved as standard

³⁾ Not available UL or ATEX/UL dual listed

⁴⁾ Only available in ATEX/Exd

* For more options see www.mdc.com or contact your local representative

Dimension drawing



Dimensions in mm