

MEDC Series



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



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



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

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

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

Applications:

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

Industries:


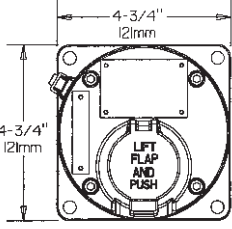
- Liquid natural gas terminals
- Energy exploration
- Chemical
- Refinery
- Power generation

Features and Benefits:

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


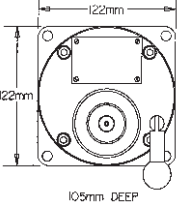
MEDC Series

SM87PBL Push Button Fire Alarm Call Point—Explosionproof

	Certification UL Listed for:	UL, CSA, ATEX Class I, Div. 1, Groups C, D Class I, Zone 1	 <p>4-3/4" / 121mm 4-3/4" / 121mm 5-3/16" / 132mm DEEP</p>
	Certified Ambient Temperature	-67°F to +158°F -55°C to +70°C	
	Ingress Protection	NEMA 4X & 6 IP66 & 67	
	Material	Marine Grade Alloy Stainless Steel (ATEX only)	
	Entries	Up to 4 × 1/2" or 3/4" NPT	
	Weight	5.5lb/2.5kg	
	Options	Body color, certification	


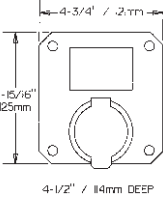
Certification	Ordering Code	Cat. #	Standard Product Configuration
UL, CSA, Class I, Div. 1, Groups C, D, Zone 1	36200102	SM87PBLAUL3T3B3NNR	Explosion protected, 2 × 1/2" NPT entries, duty label "Fire—Press Here," single pushbutton switch—latching, marine grade alloy, red finish

SM87BG Break Glass Call Point—Explosionproof

	Certification Intrinsically Safe Flameproof	ATEX, CSA, GOST-R, GOST-K, GB ATEX Ex II 1G, Exia IIC T4 ATEX Ex II 2G, Exd IIC T6	 <p>122mm 122mm 105mm DEEP</p>
	Certified Ambient Temperature	-55°C to +70°C -20°C to +55°C (LED)	
	Ingress Protection	IP66 & 67	
	Material	Stainless Steel or Alloy	
	Entries	Up to 4 × 20mm or 25mm	
	Weight	3.8kg (Steel) 2.5kg (Alloy)	
	Options	Body color, 3 & 4 pole changeover switch, certification	

Certification	Ordering Code	Cat. #	Standard Product Configuration
ATEX Ex II 2GD	16200174	SM87BGLAD1B1NNR	Break glass call point, Ex II 2GD, Exd IIC T6, IP 66 & 67, 1 × M20 bottom entries, duty label, "Fire Breakglass," alloy material, red finish

PB Push Button Fire Alarm Call Point—Hazardous Locations

	Certification UL Listed for:	UL, ATEX Class I, Div. 2, Groups A, B, C, D Class I, Zones 1 & 2	 <p>4-3/4" / 121mm 4-15/16" / 125mm 4-1/2" / 114mm DEEP</p>
	Certified Ambient Temperature	-13°F to +158°F -25°C to +70°C	
	Ingress Protection	NEMA 4X & 6 IP66 & 67	
	Material	Corrosion-free GRP	
	Entries	Up to 4 × 1/2" NPT, M20	
	Weight	2.6lb/1.2kg	
	Options:	Body color, certification	

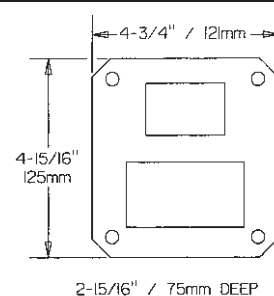
Certification	Ordering Code	Cat. #	Standard Product Configuration
UL, Class I, Div. 2, Groups A, B, C, D, Zone 1 & 2	869105	PBUL4C6C0DSN7R	Explosion protected, 2 × 1/2" NPT bottom entries, no duty label, DC, single pushbutton switch latching, painted red GRP
ATEX Ex II 2GD	800010	PBEB4B6B0DSN6R	Explosion protected, Ex II 2GD, Exe, IIC, T6, Zone 1 & 2, 2 × M20 entries, DC, single switch, red finish

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BG Break Glass Fire Alarm Call Point—Hazardous Locations



Certification UL Listed for:	UL, ATEX Class I, Div. 2, Groups A, B, C, D Class I, Zone 2
Certified Ambient Temperature	-13°F to +131°F -25°C to +55°C
Ingress Protection	NEMA 4X & 6 IP66 & 67
Material	Corrosion-free GRP
Entries	Up to 4 × 1/2" NPT, M20
Weight	2.6lb/1.2kg
Options:	Body color, certification, lift flap, LED, tag & duty label, series and EOL resistor

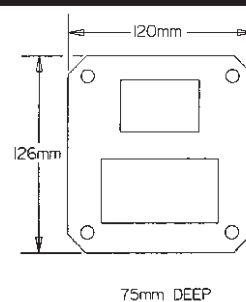


Certification	Type	Ordering Code	Cat. #	Standard Product Configuration
UL Listed, Class I, Div. 2, Groups A, B, C, D, Zone 2	Haz. Loc.	869101	BGUL4C6C1DSN7R	Explosion protected, 2 × 1/2" NPT bottom entries, single break glass switch latching, painted red GRP finish
ATEX Ex II 1GD	Intrinsically Safe	800002	BGIB4B6B1DSN6R	Explosion protected, Zone 0, 1 & 2, DC, 2 × M20 bottom entries, single break glass switch latching, single switch, red finish
ATEX Ex II 2GD	Increased Safety	800003	BGEB4B6B1DSN6R	Explosion protected Ex II 2GD, Exed, IIC, T6, Zone 1 & 2, DC, 2 × M20 bottom entries, single break glass switch latching, red finish
IP66 & 67	Waterproof	800001	BGWN4B6B1ASN6R	Dust-tight and weatherproof, uncertified AC, 2 × M20 bottom entries, single break glass switch latching, red finish

BG2 Break Glass Call Point—Hazardous Locations



Certification Intrinsically Safe Increased Safety	ATEX ATEX Ex II 1GD, Exia IIC T4 ATEX Ex II 2GD, Exed(m) IIC T4 (T6)
Certified Ambient Temperature	-40°C to +55°C (Exia) -20°C to +50°C (Exed)
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	2 × M20
Weight	1.2kg
Options	Lift flap

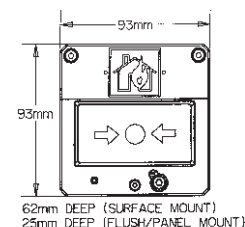


Certification	Type	Ordering Code	Cat. #	Standard Product Configuration
ATEX Ex II 1GD	Intrinsically Safe	800005	BG2INN1N	Explosion protected, Zone 0, 1 & 2, DC, 2 × M20 bottom entries, single break glass switch latching, red finish
Increased Safety	Increased Safety	800004	BG2EDC1N	Explosion protected, Zone 1 & 2, DC, 2 × M20 bottom entries, single break glass switch latching, red finish

BG3 Break Glass Call Point—Explosionproof & Weatherproof

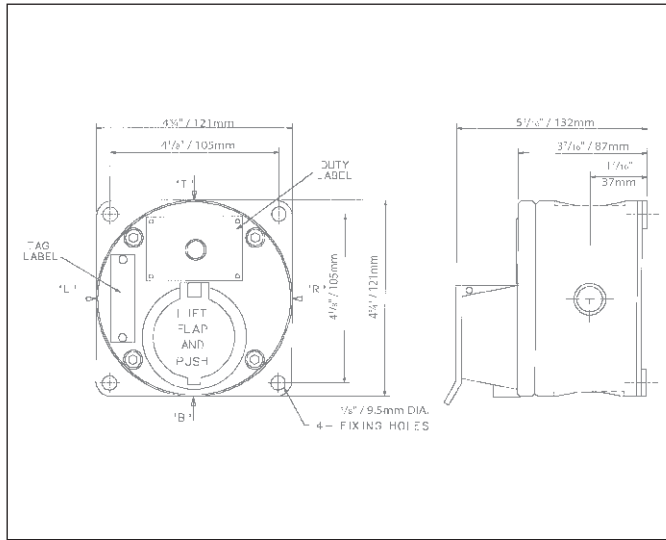


Certification UL Listed for:	ATEX, GB ATEX Ex II 1G, Exia IIC T4
Certified Ambient Temperature	-55°C to +55°C (Exia)
Ingress Protection	IP66 & 67
Material	Corrosion-free GRP
Entries	2 × M20
Weight	0.5kg
Options	Body color, lift flap



Certification	Type	Ordering Code	Cat. #	Standard Product Configuration
ATEX Ex II 1G	Intrinsically Safe	800007	BG3I1NBN	Explosion protected, Zone 0 / 1 & 2 DC, standard models are surface mount version, have 2 × M20 bottom entries, single break glass switch latching, duty label "Burning House," red GRP finish
ATEX Ex II 1G	Weatherproof	800006	BG3W1NBN	Uncertified, dust-tight & weatherproof, 24V DC, single break glass switch latching, duty label "Burning House," red finish

MEDC Series



Specification—SM87PBL Unit

Certification:	UL Listed: Class I, Div. 1, Groups C, D and Class I, Zone 1. Listing No: E186629. CSA Certification: I.S. Version Class I, Groups A, B, C, D Exd Class I, Div. 2 1/2 Group D Enclosure type 4, Cert. No. 79120 ATEX approved: EN50014, EN50018 Cert. No. Baseefa 03ATEX0075
Voltage:	24V AC/DC
Rating:	2 amp
Switches:	2 pole c/o, wired to terminals
Terminals:	Will accept up to 14AWG cable
Entries:	Up to 4 x 1/2" or 3/4" NPT, 20mm, 25mm
Optional Indicator:	A red high intensity LED can be fitted for alarm indication
Material:	LM 25 TF Marine Grade Alloy or Grade 316 ANCHB stainless steel
Weight:	5.5 lb/2.5kg (approx.)
Finish:	Epoxy paint finish as standard or to customer's specification
Certified Temperature:	Exd/Exi: -55°C to 70°C -20°C to +55°C (LED version only) UL: -67°F to +158°F (-55°C to +70°C) -4°F to +131°F (-20°C to +55°C) LED version only CSA: -58°F to +131°F (-50°C to +55°C) (Exd) -58°F to +104°F (-50°C to +40°C) (Exi)
Ingress Protection:	NEMA 4X and 6, IP66 & 67 SM87 PB IP68 (40m for 8 hours)
Addressable:	Consult MEDC for specification
Resistor Values:	470R minimum (DC & I.S. units only)

Field Installed Duty Labels

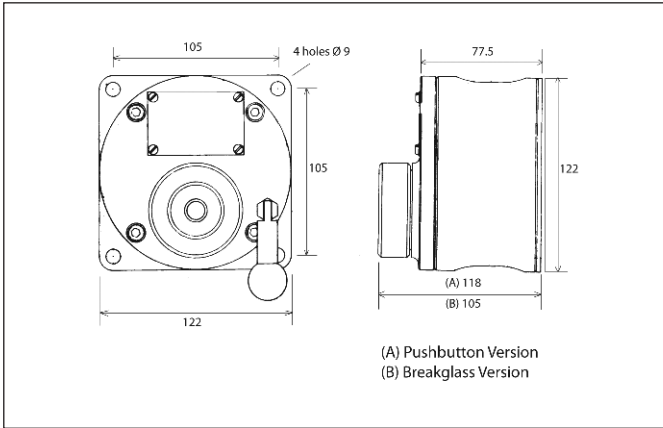
Use with SM87 Call Points:	Duty Label	Ordering Code
SM87PBL/SM87BGL	Blank	869530
SM87PBL/SM87BGL	Fire	869526
SM87PBL/SM87BGL	Emergency Shut Down	869532
SM87PBL/SM87BGL	Suppression Release	869534

Ordering Requirements

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

Unit Type	Model	Material	Certification	Entries	Duty Label	Tag Label	Features	Finish																																															
SM87	PBL				N	N	N																																																
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MEDC Series



Specification – SM87BGL Unit

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

Both the ExiallCT4 units and the ExdIIC T6 units have the same external appearance. Also the internal components are identical throughout the range. Each unit can be wired for either NO, NC or CO contacts to customer specification.

Field Installed Duty Labels

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

Ordering Requirements

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

Unit Type SM87	Model BGL	Material <input type="text"/>	Certification <input type="text"/>	Entries <input type="text"/>	Duty Label N	Tag Label N	Features N	Finish <input type="text"/>
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Material	Code
Stainless Steel	S
Alloy	A

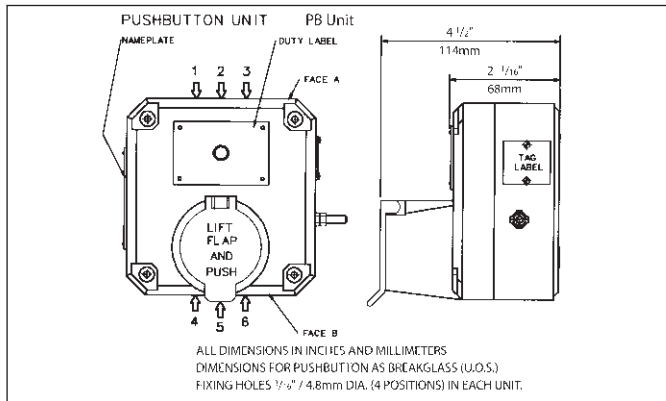
Certification	Code
EExdIIC T6	D
CSA	C

Entries	Code
20mm Left/Right	1L1R
20mm Top/Bottom	1T1B
20mm Bottom	1B
25mm Left/Right	2L2R
25mm Top/Bottom	2T2B
25mm Bottom	2B
½" NPT Left/Right	3L3R
½" NPT Top/Bottom	3T3B
½" NPT Bottom	3B
¾" NPT Left/Right	4L4R
¾" NPT Top/Bottom	4T4B
¾" NPT Bottom	4B

Finish	Code
Red	R
Blue	B
Yellow	Y
Yellow/Black Stripes	X

Note: the units can be internally wired to suit customers' specifications. Please discuss your requirements with us.

MEDC Series

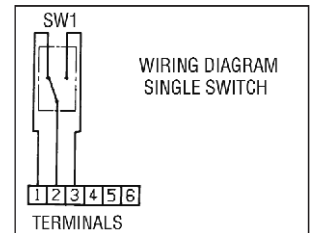


Field Installed Duty Labels

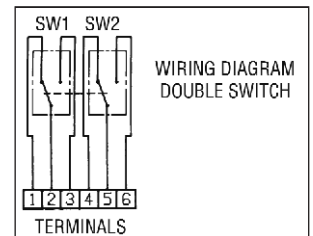
Use with PB Call Points:	Duty Label	Ordering Code
PB	Blank	869530
PB	Fire	869526
PB	Emergency Shut Down	869532
PB	Suppression Release	869534

Specification – PB Unit

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



Basic single changeover switch wiring diagram



Basic double changeover switch wiring diagram

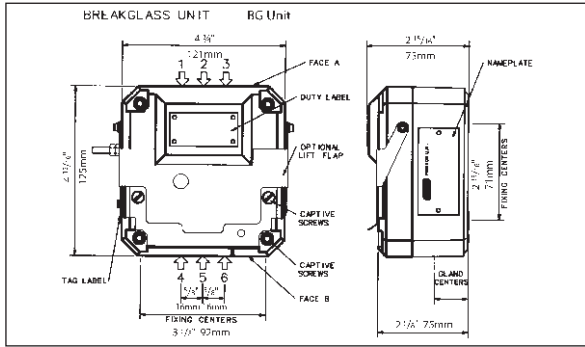
For versions containing in-line and end-of-line resistors, please specify your requirements.

Ordering Requirements

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

Model	Certification	Entries	Labels	Switches	Features	Terminals	Finish																																																							
PB			N	DS	N	7																																																								
<table border="1"> <thead> <tr> <th>Certification</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>ATEX/CENELEC – EExe</td> <td>EB</td> </tr> <tr> <td>ATEX/CENELEC – EExi</td> <td>IB</td> </tr> <tr> <td>CSA – Exi (PBI only)</td> <td>IC</td> </tr> <tr> <td>UL – Class I, Div. 2</td> <td>UL</td> </tr> </tbody> </table>		Certification	Code	ATEX/CENELEC – EExe	EB	ATEX/CENELEC – EExi	IB	CSA – Exi (PBI only)	IC	UL – Class I, Div. 2	UL	<table border="1"> <thead> <tr> <th>Entries</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>1 Bottom M20</td> <td>5B</td> </tr> <tr> <td>2 Bottom M20</td> <td>4B 6B</td> </tr> <tr> <td>1 Top, 1 Bottom M20</td> <td>2B 5B</td> </tr> <tr> <td>1 Bottom 1/2" NPT</td> <td>5C</td> </tr> <tr> <td>2 Bottom 1/2" NPT</td> <td>4C 6C</td> </tr> <tr> <td>1 Top, 1 Bottom 1/2" NPT</td> <td>2C 5C</td> </tr> <tr> <td>16 mm</td> <td>*A</td> </tr> <tr> <td>20 mm</td> <td>*B</td> </tr> <tr> <td>1/2" NPT</td> <td>*C</td> </tr> <tr> <td colspan="2">*Prefix entry size (see diagram above) with entry position code e.g. 1A, 2A.</td> </tr> <tr> <td colspan="2">UL & CSA Versions only available with 1/2" NPT entries</td> </tr> </tbody> </table>		Entries	Code	1 Bottom M20	5B	2 Bottom M20	4B 6B	1 Top, 1 Bottom M20	2B 5B	1 Bottom 1/2" NPT	5C	2 Bottom 1/2" NPT	4C 6C	1 Top, 1 Bottom 1/2" NPT	2C 5C	16 mm	*A	20 mm	*B	1/2" NPT	*C	*Prefix entry size (see diagram above) with entry position code e.g. 1A, 2A.		UL & CSA Versions only available with 1/2" NPT entries		<table border="1"> <thead> <tr> <th>Switches</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>DC double change over</td> <td>DD</td> </tr> <tr> <td>AC single change over</td> <td>AS</td> </tr> <tr> <td>AC double change over</td> <td>AD</td> </tr> </tbody> </table>		Switches	Code	DC double change over	DD	AC single change over	AS	AC double change over	AD	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Red (Standard)</td> <td>R</td> </tr> <tr> <td>Natural Black</td> <td>N</td> </tr> <tr> <td>Blue</td> <td>B</td> </tr> <tr> <td>Yellow</td> <td>Y</td> </tr> <tr> <td>Gray</td> <td>G</td> </tr> </tbody> </table>			Finish	Code	Red (Standard)	R	Natural Black	N	Blue	B	Yellow	Y	Gray	G
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2 Bottom 1/2" NPT	4C 6C																																																													
1 Top, 1 Bottom 1/2" NPT	2C 5C																																																													
16 mm	*A																																																													
20 mm	*B																																																													
1/2" NPT	*C																																																													
*Prefix entry size (see diagram above) with entry position code e.g. 1A, 2A.																																																														
UL & CSA Versions only available with 1/2" NPT entries																																																														
Switches	Code																																																													
DC double change over	DD																																																													
AC single change over	AS																																																													
AC double change over	AD																																																													
Finish	Code																																																													
Red (Standard)	R																																																													
Natural Black	N																																																													
Blue	B																																																													
Yellow	Y																																																													
Gray	G																																																													

MEDC Series

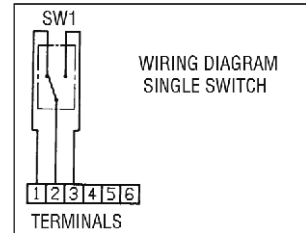


Field Installed Duty Labels

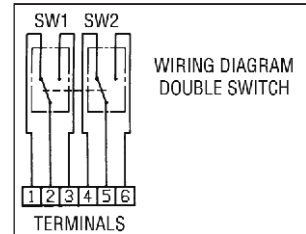
Use with BG Call Points:	Duty Label	Ordering Code
BG	Blank	869531
BG	Fire	869525
BG	Emergency Shut Down	869533
BG	Suppression Release	869535

Specification – BG Unit

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



Basic single changeover switch wiring diagram



Basic double changeover switch wiring diagram

For versions containing in-line and end-of-line resistors, please specify your requirements.

Ordering Requirements

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

Model	Certification	Entries	Labels	Switches	Features	Terminals	Finish
BG				DS	N	7	
Certification	Code	Entries	Code	Labels	Code	Finish	Code
ATEX/CENELEC - EExe	EE	1 Bottom M20	5B	Glass Label (1)	1	Red (Standard)	R
ATEX/CENELEC - EExi	IB	2 Bottom M20	4B 6B	"Fire Break Glass—Press Here"		Natural Black	N
CSA - Exi (PBI only)	IC	1 Top, 1 Bottom M20	2B 5B	Glass Label (2)	2	Blue	B
UL Class I, Div. 2	UL	1 Bottom 1/2" NPT	5C	"Break Glass—Press Here"		Yellow	Y
		2 Bottom 1/2" NPT	4C 6C			Gray	G
		1 Top, 1 Bottom 1/2" NPT	2C 5C				
		16 mm	*A	Switches	Code		
		20 mm	*B	DC double change over	DD		
		1/2" NPT	*C	AC single change over	AS		
		*Prefix entry size (see diagram above) with entry position code e.g. 1A, 2A.		AC double change over	AD		
		UL & CSA Versions only available with 1/2" NPT entries					