Hazardous Area

Product Brochure

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About us

Formed in 1988, we are proud to be an independent service orientated company. LGM Products has an enduring commitment to customer service excellence and product quality together with high standards of safety and business ethics.

What we do

LGM Products is a truly international distributor with customers in well over 40 different countries across Europe, Middle East and the Asia – Pacific region. We distribute fire detection devices, controls, audible and visual warning alarm devices and associated equipment to just about every conceivable industry around the world. Our markets include marine engineering, fire alarm systems, power stations, oil and gas production plants.

Hazardous Area Range

Facility safety within hazardous areas is of the utmost importance and LGM Products is able to offer a variety of explosion proof and intrinsically safe (I.S.) products which will help keep workers and equipment safe from industrial fires and accidents.

Our comprehensive list of smoke detectors, flame detectors, explosion proof and intrinsically safe sounder beacons, linear heat detection systems, push button call points and plated assemblies means we will be able to meet the highest safety requirements for any hazardous area.

All the units listed in this section have at least one third party certification from a recognised international body as evidence of the quality of the products we can offer. These approvals include ATEX, IECEX, INmetro, GOST-R, SIL and UL among others.
Addressable Fire Detection

XP95 IS Heat Detector
- IP53 or IP23D (BV)
- Rate of rise/static
- Intrinsically safe (suitable for zone 0)
- SIL version available
- ATEX and LPCB approved.
- GL, DNV and ABS approved

XP95 IS Optical Smoke Detector
- IP23D
- ‘Light scatter’ optical detection
- Intrinsically safe (suitable for zone 0)
- SIL version available
- ATEX and LPCB approved.
- GL, DNV and ABS approved

XP95 IS Addressable Mounting Base
- XPERT Addressing
- One way fit
- Locking feature
- Stainless steel contacts
- ATEX and LPCB approved.
- GL, DNV and ABS approved
Conventional Fire Detection

**Orbis IS Optical Smoke Detector**
- IP23D
- 14-28Vdc
- White polycarbonate body
- Flashing LED available
- Suitable for use in zone 0
- ATEX, VDS and LPCB approved

**Orbis IS Heat Detector**
- IP23D
- 14 to 28Vdc
- White polycarbonate body
- Flashing LED available
- Suitable for use in zone 0
- ATEX, VDS and LPCB approved

**Orbis IS Timesaver Base**
- Single quadrant terminals
- LED alignment marks
- Optional detector lock
- Suitable for use in zone 0
- ATEX, VDS and LPCB approved
Conventional Fire Detection

**DCD-1E-IS Intrinsically Safe Heat Detector**
- IP63
- 60°C fixed temperature element
- Suitable for category 1
- ATEX Classification to II 1G EEx ia IIC T5 Tamb=55°C
- ATEX, VDS and LPCB approved

**SLR-E-IS Intrinsically Safe Photoelectric Smoke Detector**
- IP42
- Up to 25m range
- Suitable for category 1
- ATEX Classification to II 1G EEx ia IIC T5 Tamb=55°C
- ATEX, VDS and LPCB approved

**YBN-R/4(IS) Intrinsically Safe Detector Base**
- Accepts 1 to 2.5mm cables
- Electronics free
- Small 8mm profile
- Dedicated cable screen terminal
- ATEX, VDS and LPCB approved
Intrinsically Safe Call Points

IS-MCP1A

An Intrinsically Safe version of the MCP1A indoor call point is available for installation in hazardous areas. These call points are manufactured to protect against other hazards, as defined in paragraph 1.2.7 of annex II of the ATEX Directive 94/9/EC. They are intended for use within Intrinsically Safe (I.S.) systems using suitable I.S. barriers.

- IP24D
- 30Vdc
- 500mA
- -10°C to +55°C
- 0.5mm² to 2.5mm² cable termination
- 93± 3% humidity (non-condensing)

The IS-MCP1A utilises a unique ‘plug and play’ concept designed specifically to reduce installation time. Included is a special terminal block, where all initial installation cabling is terminated. This terminal block is then simply connected to the back of the MCP. Through new standards and legislation, both break glass and resettable operating elements can now be used within a manual call point.

MCP Indoor Call Point products help preserve the integrity of the overall system as illegal removal of the product lid will result in the call point operating and the system going into alarm. The MCP1A product version is supplied with both a resistor and normally open clean contact electrical options. These options are easily utilised by simply connecting the terminal block to the required connection in the back of the MCP1 product. A variety of resistor versions are available, with both 470W and 680W offered as standard. However, other resistor types can be provided upon request.
Intrinsically Safe Call Points

**IS-CP4A/IS-CP4B**

The IS-CP4A and IS-CP4B push button, tool resettable and break glass manual call points are approved for Zones 0, 1, 2, 21 & 22 requiring intrinsically safe equipment for the control of fire and gas alarm systems.

Available with and without monitoring resistors, all versions are certified to ATEX and IECEx standards. The push button mechanism is protected by a spring loaded cover therefore the switch requires a two-action activation. The push button is user resettable via the use of the special key supplied with the unit. The IS-CP4 range features enclosures manufactured from corrosion proof, marine grade, copper free LM6 (A413) aluminium which is phosphated and powder coated.

<table>
<thead>
<tr>
<th>Type</th>
<th>-IS-CP4A</th>
<th>-IS-CP4B</th>
<th>TYPE A– No EOL device</th>
<th>TYPE B– Choice of EOL device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variant</td>
<td>-BG</td>
<td>-PB</td>
<td>BREAK GLASS</td>
<td>PUSH BUTTON</td>
</tr>
<tr>
<td></td>
<td>-PT</td>
<td></td>
<td></td>
<td>TOOL RESET</td>
</tr>
<tr>
<td>Terminals</td>
<td>-ST</td>
<td>-DR</td>
<td>ST: Standard</td>
<td>DR: DIN rail (only on IS-CP4B type)</td>
</tr>
<tr>
<td>Duty Labels</td>
<td>-NL</td>
<td>-DL</td>
<td>No duty label</td>
<td>Duty label required – specify contents</td>
</tr>
<tr>
<td>Colour</td>
<td>-RD</td>
<td>-XX</td>
<td>Red enclosure colour</td>
<td>Other enclosure colour – contact sales</td>
</tr>
<tr>
<td>Voltage</td>
<td>-48v/24v/12v/6v</td>
<td>System voltage (only required for BExCP3B type)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E.O.L Resistor</td>
<td>-ExxxR</td>
<td>Resistor value in Ohms e.g. E470R = 470 Ohm (only required for IS-CP4B type)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Explosion Proof Call Points

BExCP4A/BExCP4B

The BExCP3A and BExCP3B break glass, push button and tool resettable manual call points are approved for Zone 1, 2, 21 and 22 hazardous areas for the control of fire and gas alarm systems. Available with and without monitoring resistors, all versions are certified to ATEX and IECEx standards.

Push button mechanisms are protected by a spring loaded cover therefore the switch requires a two-action activation. (For the Tool Reset version the push button is user resettable via the use of the special key supplied with the unit.). The BEx range features enclosures manufactured from corrosion proof, marine grade, copper free LM6 (A413) aluminium which is phosphated and powder coated.

<table>
<thead>
<tr>
<th>Type</th>
<th>-BExCP3A -BExCP3B</th>
<th>TYPE A– No EOL device TYPE B– Choice of EOL device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variant</td>
<td>-BG -PB -PT</td>
<td>BREAK GLASS PUSH BUTTON TOOL RESET</td>
</tr>
<tr>
<td>Terminals</td>
<td>-ST -DR</td>
<td>ST: Standard DR: DIN rail (only on BExCP3B type)</td>
</tr>
<tr>
<td>Duty Labels</td>
<td>-NL -DL</td>
<td>No duty label Duty label required – specify contents</td>
</tr>
<tr>
<td>Colour</td>
<td>-RD -XX</td>
<td>Red enclosure colour Other enclosure colour – contact sales</td>
</tr>
<tr>
<td>Voltage</td>
<td>-48v/24v/12v/6v</td>
<td>System voltage (only required for BExCP3B type)</td>
</tr>
<tr>
<td>E.O.L Resistor</td>
<td>-ExxxR</td>
<td>Resistor value in Ohms e.g. E470R = 470 Ohm (only required for BExCP3B type)</td>
</tr>
<tr>
<td>Series Resistor</td>
<td>-SxxxR</td>
<td>Resistor value in Ohms e.g. E1K5R = 1.5K Ohm (only required for BExCP3B type)</td>
</tr>
</tbody>
</table>

The BExCP3A and BExCP3B break glass, push button and tool resettable manual call points are approved for Zone 1, 2, 21 and 22 hazardous areas for the control of fire and gas alarm systems. Available with and without monitoring resistors, all versions are certified to ATEX and IECEx standards.

Push button mechanisms are protected by a spring loaded cover therefore the switch requires a two-action activation. (For the Tool Reset version the push button is user resettable via the use of the special key supplied with the unit.). The BEx range features enclosures manufactured from corrosion proof, marine grade, copper free LM6 (A413) aluminium which is phosphated and powder coated.
### Explosion Proof Call Points

**GNEx6P6A/GNExCP6B**
The GNExCP6A/GNExCP6B manual call points are approved for Zone 1, 2, 21 and 22 hazardous areas for the control of fire and gas alarm systems. All types are available with EOL or series resistors, diode or Zener diodes or an LED indicator and also with either single or double pole change over switches. All versions are certified to ATEX and IECEx standards.

| Type | -GNExCP6A  
|-GNExCP6B | TYPE A— No EOL device  
|TYPE B— Choice of EOL device |
| Variant | -BG  
|-PB  
|-PT | BREAK GLASS  
|PUSH BUTTON  
|TOOL RESET |
| Switch Type | -S/-D | SPCO/DPCO |
| Stopping Plug | -N/-B/-S/-P | Nylon/Brass/Stainless Steel/Nickel Plated |
| Terminals | -S  
|-D | STANDARD 6 x 3mm²  
|DIN RAIL 8 x 2.5mm² |
| Duty Labels | -N  
|-P  
|-S | No duty label  
|Metalised polyester  
|Stainless Steel duty label |
| Colour | -XX | Red, Blue, Green, Yellow, Red/White, Yellow/Black, Black RED/WHITE |
| Voltage | -48v/24v/12v/6v | System voltage |
| E.O.L Module | -ExxxR  
|-ED1  
|-ExxxZ | Resistor value in Ohms e.g. E470R = 470 Ohm  
|Diode IN4007 = ED1  
|Zener Diode (e.g. ESV1Z = 5.1V) |
| Series Module | -SxxxR  
|-SD1  
|-SxxxZ  
|-LED | Resistor Value In Ohms (e.g. S1K5R = 1.5K Ohm)  
|Diode IN4007 = SD1  
|Zener Diode (e.g. S5V1Z = 5.1V)  
|LED Indicator |
Explosion Proof Call Points

STExCP8
The STExCP8 manual call points are approved for Zone 1, 2, 21 and 22 hazardous areas for the control of fire and gas alarm systems. All types are available with standard DIN rail terminals or E2S termination board. All versions are certified to ATEX/IECEx standards and use corrosion-proof stainless steel enclosures.

<table>
<thead>
<tr>
<th>Type</th>
<th>Variant</th>
<th>Switch Type</th>
<th>Cable Entry</th>
<th>Stopping Plug Material</th>
<th>Terminals</th>
<th>Lift Flap</th>
<th>Duty Label</th>
<th>Version</th>
<th>EOL Module</th>
<th>Series Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>-STExCP8</td>
<td>-BG</td>
<td>-S/-D</td>
<td>-A/-B/-C/-D/-E/-F/-G/-H</td>
<td>-S/-B/-P</td>
<td>-D</td>
<td>-L</td>
<td>-1/-2/-3/-4/-5/-6</td>
<td>-A1</td>
<td>-ExxxR</td>
<td>-SxxxR</td>
</tr>
<tr>
<td></td>
<td>-PM</td>
<td></td>
<td></td>
<td></td>
<td>-P</td>
<td></td>
<td></td>
<td></td>
<td>-ED1</td>
<td>-SD1</td>
</tr>
<tr>
<td></td>
<td>-PT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-ExxxZ</td>
</tr>
</tbody>
</table>

BREAK GLASS
MOMENTARY PUSH BUTTON
PUSH BUTTON WITH TOOL RESET

Various M20/M24/MTP adaptors available

Steel/Brass/Nickel plated

DIN Rail 8x SAC2.5
DIN Rail 8x SAC2.5 with EOL/Series terminations

Lift flap only available for BG unit

Various duty labels available

IECEX & ATEX & CUTR Ex EAC

Resistor value in Ohms e.g. E470R = 470 Ohm
Diode IN4007 = ED1
Zener Diode (e.g. E5V1Z = 5.1V)

Resistor Value In Ohms (e.g. S1K5R = 1.5K Ohm)
Diode IN4007 = SD1
Zener Diode (e.g. S5V1Z = 5.1V)
Flame Detection
FLAME DETECTORS

2000x
- Ultraviolet and Infrared
- Range: 100ft (30m FM), 15m (KFI)
- 4-20mA
- Operating temp: -40°C to +75°C
- Stainless steel (316) enclosure
- FM, ATEX and IECEx approved

2000x-H (HYDROGEN)
- Ultraviolet and Infrared
- Range: 100ft (30m FM), 15m (KFI)
- 15ft (4.5m) for Hydrogen (30" plume)
- 4-20mA
- Operating temp: -40°C to +75°C
- Stainless steel (316) enclosure
- EX and FM approved

3000x
- Triple Infrared
- 200ft (60m FM), 50m (KFI) for n-Heptane fire
- 4-20mA
- Operating temp: -40°C to +75°C
- 0 to 95% relative humidity
- FM, ATEX and IECEx approved
Fire Detection

**FLAME DETECTORS**

**IS FLAME DETECTOR**
- Dual IR, Triple IR or UV/Dual IR
- 14-28Vdc
- Up to 55°C operating temp
- Optical self-test
- ATEX and LPCB approved

**EXD FLAME DETECTOR**
- Dual IR, Triple IR or UV/Dual IR
- IP66
- Up to 55°C operating temp
- Optical self-test
- Copper-free aluminium alloy enclosure
- LPCB, IECEx, ATEX and SIL 2 approved

**AVAILABLE ACCESSORIES**
- Stainless Steel Weather Shield
- Stainless Steel EXD Enclosure

Audio visual signalling  Fire detection  Hazardous area

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Fire Detection

HEAT PROBES

HDL HEAT PROBES
These flexible and highly effective systems give accurate data acquisition and warning of excessive high temperatures. HDL detectors can be either used for single or redundant heat detection using 2 equal switching temperatures. After cooling, these units automatically reset for convenience.

HDL-3
- Ex suitable up to 135°C
- Aluminium box
- Hermetically sealed switching contacts (IP67)
- Suitable for 1 or 2 cable glands

HDL-5
- Ex suitable up to 210°C
- HT-Silicone seals. Aluminium box
- Hermetically sealed switching contacts (IP67)
- Suitable for 1 or 2 cable or cable-hose glands
Signaline FIXED-TEMPERATURE HEAT DETECTION CABLE

Signaline FT cables offer a very reliable and low cost solution to fire detection. Fixed Temperature cables are heat sensing cables which alarm at pre-set temperatures. The cable is constructed of two spring steel conductors twisted together and individually insulated with a heat sensitive polymer. When the polymer melts the steel conductors make contact and the system raises an alarm.

Signaline FT cable is sold in 50m increments up to 1000m per reel.

- Fixed alarm temperature (68°C/88°C/105°C)
- Steel core with polymer coating
- Red PVC outer sheath
- 3.5mm diameter
- FM/UL approval
- Suitable for Conventional and Analogue Addressable systems

Making Signaline FT heat sensing cable safe for use in hazardous areas is straightforward and simple. Because Signaline FT cable does not store energy the cable is deemed to be simple apparatus under ATEX regulations. Therefore the cable does not need an ATEX certificate. However the circuit must be made intrinsically safe and this is easily achieved by placing a suitable intrinsically safe barrier in the circuit.
Signaline
FIXED-TEMPERATURE HEAT DETECTION CABLE

For most day to day applications Signaline FT will offer a perfect solution. However, in areas where oil and corrosive chemicals and gases are present or where the cable could be exposed to high levels of UV light you may require something with higher protection. Signaline FT-R provides a cost effective solution.

In certain applications, such as engine bays, very high ambient temperature can be expected. Signaline FT-185-R is designed for such applications. The cable alarm temperature is 185°C and will accommodate a continuous ambient of up to 120 °C. Signaline FT-185-R is also highly resistant to most gases, chemicals and UV rays.

- Fixed alarm temperature (68°C/105°C/185°C)
- Steel core with polymer coating
- Nylon outer sheath
- 4.5mm diameter (68-R, 105-R), 3.6mm (185-R)
- FM/UL approval
- Suitable for Conventional and Analogue Addressable systems
**Signaline ACCESSORIES**

**Ex UCB**

The Signaline Ex Universal Connector Box can be used as an end of line enclosure, junction box or an interposing line unit. It is supplied with appropriately sized cable glands, terminal block and 470 & 680 ohm resistors. It is a quick and efficient method to interconnect, terminate and join lengths of any Signaline heat sensing cable.

**RETRACTABLE CABLE**

Signaline extendible cables are designed to withstand harsh environment, oil, grease and similar chemicals. Signaline Retractable cables are manufactured specifically for floating roof petro-chem storage tanks. The floating roof rises and falls as the tank fills and empties. To allow for this movement, a Retractable cable is used to connect the Linear heat detector cable fitted around the circumference of the floating roof with a junction box at the top of the tank. As the roof drops lower, the spring like cable extends and as the roof rises the cable retracts into a closed spring coil.

**AUTO COLLECTOR FOR RETRACTABLE CABLE**

The mechanical turnbuckle with extending cable is the ideal solution to connect Signaline Linear Heat detection cable from the top of a floating roof tank rim seal with the top of the tank. The cable retracts into the enclosure creating a neat and tidy solution. The product is approved for use in Zone 1, Zone 2 as well as Zone 21 and Zone 22.
Signaline
ACCESSORIES - CLIPS

‘P’ Clip
Stainless steel clip with a UV and ozone-resistant cushion insulator. Also available in a high temperature rated version for use with Signaline FT-185-R.

Edge Clip
The knock on edge clip is designed for steel work of differing thickness. These fixings are available in mild steel with a zinc rich plated finish which has excellent resistance to corrosion and heat.

‘J’ Clip
The knock-on J clips are suitable for supporting any Signaline heat sensing cable from the outer edge of plain conventional cable trays and similar metal supports.
Signaline
ACCESSORIES - GALVANIC ISOLATORS/ZENER BARRIERS

MTL 5561
The MTL5561 is a loop-powered 2–channel interface for use with conventional fire and smoke detectors located in hazardous areas. In operation, the triggering of a detector causes a corresponding change in the safe–area current. The unit features reverse input polarity protection, while ‘no-fail’ earth fault detection on either line can be provided by connecting an earth leakage detector to terminal 3 and/or 6.

MTL 5525
The MTL5525 enables an on/off device in a hazardous area to be controlled by a volt-free contact or logic signal in the safe area. It can drive loads such as solenoids, alarms, LEDs and other low power devices that are certified as intrinsically safe or are classified as non-energy storing simple apparatus.

MTL 7728+
Each channel contains two stages of pulse-tested Zener or forward connected diodes and an ‘infallible’ terminating resistor. In the event of an electrical fault in the safe area, the diodes limit the voltage that can reach the hazardous area and the resistor limits the current. A fuse protects the diodes, and the two stages of voltage limitation ensure continued safety if either stage should fail.
Signaline
ACCESSORIES - GALVANIC ISOLATORS/ZENER BARRIERS

**KFD0-CS-Ex2.51P**
- 2-channel isolated barrier
- 24Vdc supply (loop powered)
- Current input/output 0mA ... 40mA
- Accuracy 1%
- Reverse polarity protection
- Up to SIL2 according to IEC 61508
- Terminals 12-, 11+; 8-, 10-, 9+

**KFD0-CS-Ex1.51P**
- 1-channel isolated barrier
- 24Vdc supply (loop powered)
- Current input/output 0mA ... 40mA
- Accuracy 1%
- Reverse polarity protection
- Up to SIL2 according to IEC 61508
- Terminals 12-, 11+

**Z787**
- 2-channel Zener barrier
- DC version, positive polarity
- Working voltage 26.5v at 10µA
- Series resistance 327Ω
- Fuse rating 50mA
- Diode return
- screw terminals, max. core cross-section 2 x 2.5 mm²
Audio/Visual Alarm Equipment

SOUNDER BEACONS

**IS-mC1**
- 100dB(A)
- 23Cd LED beacon
- 49 tone - 3 stage alarm
- Suitable for zone 0
- IP65
- 24Vdc
- Lens: Amber/Blue/Clear/Red/Green

**D1xC2X10F**
- 125dB(A), 260Cd (effective to I.E.S)
- 10 Joule xenon beacon
- 24 tone - 4 stage alarm
- Suitable for zone 1
- IP66
- 24Vdc/115Vac/230Vac
- Lens: Amber/Blue/Yellow/Red/Green/Clear/Magenta

**D1xC1X05F**
- 117dB(A), 143Cd (effective to I.E.S)
- 5 Joule xenon beacon
- 64 tone - 4 stage alarm
- Suitable for zone 1
- IP66
- 24Vdc/115Vac/230Vac
- Lens: Amber/Blue/Yellow/Red/Green/Clear/Magenta
## Audio/Visual Alarm Equipment

### SOUNDER BEACONS

**BExCS110-05**
- 110dB(A), 105Cd (effective to I.E.S.)
- 5 Joule xenon beacon
- 32 tones - 3 stages
- Suitable for zone 1/2
- IP66 & 67 (third party tested)
- 12Vdc/24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Clear/Green/Red/Yellow

**BExCS110-05R**
- 110dB(A), 105Cd (effective to I.E.S.)
- 5 Joule xenon beacon
- 32 tones - 3 stages
- Suitable for zone 1/2
- IP66 & 67 (third party tested)
- 12Vdc/24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Clear/Green/Red/Yellow

**BExCS110-L2**
- 117dB(A)
- 87Cd LED beacon (steady)
- 160Cd 1Hz flash
- 32 tones - 3 stages
- Suitable for zone 1,2,21 & 22
- IP66 & 67 (third party tested)
- 24Vdc/115Vac/230Vac
- Lens: Amber/Blue/Green/Red/Yellow
Audio/Visual Alarm Equipment

SOUNDER BEACONS

BExCS110-L1-R
- 110dB(A)
- 11Cd LED beacon (effective to I.E.S.)
- 32 tones - 3 stages
- Suitable for zone 1/2
- IP66 & 67 (third party tested)
- 12Vdc/24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Green/Red/Yellow

STExC1X05F
- 117dB(A)
- 5 Joule xenon beacon
- 64 tone - 4 stage alarm
- Suitable for zone 1/2/21/22
- IP66
- 12Vdc/24Vdc/48Vdc/230Vac
- Lens: Amber/Blue/Red/Green/Yellow/Magenta/Clear

YL6S
- 110dB(A)
- 5 Joule xenon beacon
- 32 tone - 3 stage alarm
- Suitable for zone 1/2/21/22
- IP66&67
- 24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Red/Green/Yellow/Magenta/Clear/Opal
Audio/Visual Alarm Equipment

STATUS INDICATORS

BEX PLATED ASSEMBLY
These following status indicators present a highly configurable signalling solution, providing effective warning in all conditions. The customer is able to pick and choose their preferred combination of visual and audible units to meet their requirements. Both styles are suitable for zone 1/2/21/22 and carry IECEx & ATEX approvals.

BEX PLATED ASSEMBLY
- Up to 5 components on a stainless steel frame
- 110dB(A)/117dB(A) sounders
- 5/10/15/21J flashing xenon beacons
- Amber/Blue/Green/Yellow/Red lenses available

MS STATUS INDICATOR
- Up to 4 components on a stainless steel frame
- 115dB(A) sounders
- 15J flashing xenon or steady LED
- 9 different beacon colours available
Audio/Visual Alarm Equipment

**XENON BEACONS**

**BExBG05**
- 5 Joule xenon beacon
- 105Cd (effective to I.E.S.)
- Suitable for zone 1/2/21/22
- IP66/67
- 12Vdc/24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Clear/Red/Green/Yellow

**BExBG10**
- 10 Joule xenon beacon
- 346Cd (effective to I.E.S.)
- Suitable for zone 1/2/21/22
- IP66/67
- 24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Clear/Red/Green/Yellow

**BExBG15**
- 15 Joule xenon beacon
- 444Cd (effective to I.E.S.)
- Suitable for zone 1/2/21/22
- IP66/67
- 24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Clear/Red/Green/Yellow
Audio/Visual Alarm Equipment

**XENON BEACONS**

**BExBG05-05**
- 2x 5 Joule xenon beacon
- 1hz flash rate
- Suitable for zone 1/2/21/22
- IP65
- 12Vdc/24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Clear/Red/Green/Yellow

**GNExB1X05**
- 5 Joule xenon beacon
- 117.93Cd (effective to I.E.S.)
- 1Hz flash rate (60fpm)
- 1.5Hz & double flash (90fpm) - DC only
- IP66
- 12Vdc/24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Clear/Red/Green/Yellow/Magenta

**GNExB2X10**
- 10 Joule xenon beacon
- 479.39Cd (effective to I.E.S.)
- 1Hz or 1.5Hz & double flash
- Suitable for zone 1/2/21/22
- IP66
- 24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Clear/Red/Green/Yellow/Magenta
Audio/Visual Alarm Equipment

XENON BEACONS

GNExB2X15
- 15 Joule xenon beacon
- 666.92Cd (effective to I.E.S.)
- 1Hz or 1.5Hz & double flash
- Suitable for zones 1/2/21/22
- IP66
- 24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Clear/Red/Green/Yellow/Magenta

GNExB2X21
- 21 Joule xenon beacon
- 902.69Cd (effective to I.E.S.)
- 1Hz or 1.5Hz & double flash
- Suitable for zones 1/2/21/22
- IP66
- 24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Clear/Red/Green/Yellow/Magenta

V6
- 5/10/20 Joule xenon beacon
- 1Hz flash rate (60fpm)
- 30/96.02/301Cd (effective)
- Suitable for zones 1/2/21/22
- IP67
- 24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Yellow/Red/Green/Clear
Audio/Visual Alarm Equipment

XENON BEACONS

STExB2X10
- 10 Joule xenon beacon
- 1Hz flash rate/1.5Hz & double
- 500Cd
- Suitable for zone 1/2/21/22
- IP66/67
- 24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Yellow/Red/Green/Clear

STExB2X15
- 15 Joule xenon beacon
- 1Hz flash rate/1.5Hz & double
- 750Cd
- Suitable for zones 1/2/21/22
- IP66/67
- 24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Yellow/Red/Green/Clear

STExB2X21
- 21 Joule xenon beacon
- 1Hz flash rate/1.5Hz & double
- 902.69Cd effective
- Suitable for zones 1/2/21/22
- IP66/67
- 24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Yellow/Red/Green/Clear
Audio/Visual Alarm Equipment

**XENON BEACONS**

**E2xB05**
- 5 Joule xenon beacon
- 1Hz flash rate
- 101Cd (effective to I.E.S.)
- Suitable for zone 2/22
- IP67
- 12Vdc/24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Yellow/Red/Green/Clear

**E2xB10**
- 10 Joule xenon beacon
- 1Hz flash rate
- 255Cd (effective to I.E.S.)
- Suitable for zone 2/22
- IP67
- 24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Yellow/Red/Green/Clear

**FX15 (FLAMEPROOF)**
- 5 Joule xenon beacon
- 1Hz flash rate
- 49Cd (effective)
- Suitable for zones 1/2/21/22
- IP66/67
- 24Vdc/48Vdc/115Vac/230Vac
- Lens: Amber/Blue/Clear/Red/Green/Yellow/Opal/Magenta

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**Audio visual signalling**

**Fire detection**

**Hazardous area**

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Address: LGM Products Ltd, Unit 15 Riverside Industrial Park, Farnham, Surrey, GU9 7UG, United Kingdom.
Audio/Visual Alarm Equipment

**LED BEACONS**

**IS-MB1**
- 23Cd (6 LED) beacon
- Double flash at 2Hz and 1Hz
- Suitable for zone 0
- IP65
- 24Vdc
- Lens: Amber/Blue/Clear/Red/Green

**BExBGL1**
- 11Cd (32 high output LED) beacon
- Selectable flash rate
- Suitable for zone 1/2/21/22
- IP65
- 10-50Vdc/24Vac/115Vac/230Vac
- Lens: Amber/Blue/Green/Red/Yellow

**GNExB2LD2**
- 174Cd (4 high output LED) beacon
- 7 selectable flash modes
- Suitable for zone 1/2/21/22
- IP66
- 24Vdc/115Vac/230Vac
- Lens: Amber/Blue/Green/Red/Magenta/Yellow/Clear

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Audio visual signalling | Fire detection | Hazardous area
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Audio/Visual Alarm Equipment

**SOUNDERS**

**D1xS1F**
- Up to 117dB(A)
- 64 tones - 4 stages
- Suitable for zone 1/20
- IP66
- 24Vdc/115Vac/230Vac
- Marine-grade aluminium (LM6) body

**BExS110**
- 110dB(A)
- 32 tones - 3 stages
- Suitable for zone 1/2
- IP66/67
- 12Vdc/24Vdc/48Vdc/115Vac/230Vac
- Programmable version available

**BExS120**
- 120dB(A)
- 32 tones - 3 stages
- Suitable for zone 1/2
- IP66/67
- 12Vdc/24Vdc/48Vdc/115Vac/230Vac
- Programmable version available
Audio/Visual Alarm Equipment
SOUNDERS

STExS1R
- Up to 115dB(A)
- 64 tones - 4 stages
- Suitable for zone 1/2/21/22
- IP66
- 24Vdc/115Vac/230Vac
- Stainless steel body

YO6
- 100dB(A)
- 32 tones - 2 stages
- IP66
- Suitable for zone 0/1/2/21/22
- 24Vdc/115Vac/230Vac
- Dual M20 ISO (ATEX) / M20 to 1/2inch NTP adaptors (UL)
- ATEX & UL versions available

YA6S
- 110dB(A)
- 32 tones - 3 stages
- IP66 & 67
- Suitable for zones 1/2/21/22
- Dual M20 ISO
- 24Vdc/48Vdc/115Vac/230Vac
- ATEX & UL versions available
Audio/Visual Alarm Equipment

**SOUNDERS**

**GNExS1**
- 110dB(A) nominal
- 45 tones - 4 stages
- IP66
- Suitable for zones 1/2
- Dual M20 ISO
- 12Vdc/24Vdc/48Vdc/115Vac/230Vac

**GNExS2**
- 117dB(A) nominal
- 45 tones - 4 stages
- IP66
- Suitable for zones 1/2
- Dual M20 ISO
- 24Vdc/48Vdc/115Vac/230Vac

**E2xS112**
- 116dB(A)
- 45 tones - 3 stages
- IP67
- Suitable for zones 2/22
- Dual M20 ISO
- 24Vdc/48Vdc/115Vac/230Vac
- ATEX & UL versions available
Audio/Visual Alarm Equipment

**SOUNDERS**

**E2xS121**
- 121dB(A)
- 45 tones - 3 stages
- IP67
- Suitable for zone 2

**IS-mA1 (INTRINSICALLY SAFE)**
- 100dB(A)
- 49 tones - 3 stages
- IP65
- Suitable for zone 0

**IS-A105N (INTRINSICALLY SAFE)**
- 105dB(A)
- 49 tones - 3 stages
- IP66
- Suitable for zone 0

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**Audio visual signalling**

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**Audio/Visual Alarm Equipment**

**SOUNDERS**

**DGW21-Ex**

With a GRP housing the dGW21 signalling bell is suitable for use in Zones 1 and 2 and 21 and 22. The GRP housing provides weather resistance to IP66 and can be wall or ceiling mounted using the supplied adjustable mounting bracket.

- IP66
- Up to 105dB(A)
- 24Vdc 230Vac
- 350mA @ 24v, 55mA @ 230Vac (50Hz)
- -20°C to +40°C
- 200mm gong

The signalling bell dGW21 was designed to warn, call and signal in group II explosive atmospheres and rough environmental conditions in hazardous areas. The signalling bell produces a sound volume of approx. 105dB(A) at 1 meter distance. The frequency of the sound of the bell is approx 1kHz, meaning the signal can be clearly heard against lower frequency background noise. The bell can also be activated with the presence of a telephone ringing signal in the dRGW 21 version.

The protection of this product is a mixture of Exd “flameproof” for the driver system and Exe “increased safety” for the termination chamber. The dRGW 21 offers initiation by a relay from a telephone ringing voltage. The flameproof chamber contains the electromagnetic driver system and the enclosure is made from GRP (glass-fibre reinforced polyester), guaranteeing protection against corrosion. As the dGW 21 is safety class II, so there is no equipotential bonding necessary.
Our product catalogue includes addressable and conventional smoke detectors, manual call points, fire control panels, Smoke Beam detectors and flame detectors. We provide a variety of solutions for standard fire detection applications, but we also specialise in fire detection for unique and challenging environments such as the oil and gas market, marine and offshore and heavy industry.

LGM Products offer a wide selection of audio-visual warning devices including sirens, bells, airhorns, sounders, beacons and a comprehensive range of audio-visual combination units.

With over 25 years of experience serving the marine industry around the world LGM Products understands the demanding nature of the marine sector. Our specialist knowledge means we are well-placed to deliver the best safety and detection devices for marine and offshore environments.

Signaline linear detectors provide unique solutions for fire and water leak detection. All Signaline detectors have a number of third party approvals from both international organisations and local bodies.

Explore our extended range at www.Lgmproducts.com