

## Features

- Automatic synchronisation on multi-beacon & sounder systems.
- Beacons can be set to 'flip-flop' alternating mode with other units on multi-beacon systems.
- Xenon tubes mechanically secured against shock & vibration
- Ratchet adjustable stainless steel 'U' bracket.
- 'Programmable' version available:

- 45 alarm tones

- 4 remotely selectable stages

- Any tone can be assigned to any stage

- User configurable continuous frequency tone



## Approvals

- ATEX certificate: KEMA 01ATEX2223X,

EN 60079-0 : 2006, EN 60079-1 : 2007,

EN 61241-0 : 2006, EN 61241-1 : 2004

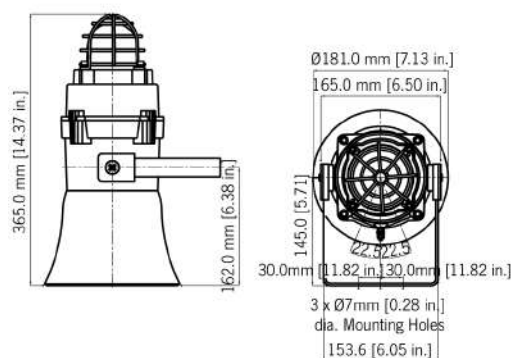
- IECEx certificate: IECEx KEM 10.0025,

IEC 60079-0 : 2004 (Ed4), IEC 60079-1 : 2007 (Ed6),

IEC 61241-0 : 2004 (Ed1), IEC 61241-1 : 2004 (Ed1)

- GOST-R certificate: POCC GB.JB05.B03365





## Specification

|                      |                                                                                                               |
|----------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Sounder/Horn:</b> |                                                                                                               |
| Maximum output:      | 117dB(A) @ 1 metre [108dB(A) @ 10ft/3m]                                                                       |
| Nominal output:      | 110dB(A) @ 1m +/- 3dB - Tone 2 [101dB(A) @ 10ft/3m]                                                           |
| No. of tones:        | 32 (UK00A / PFEER compliant)                                                                                  |
| No. of stages:       | 3                                                                                                             |
| Volume control:      | Max. 110dB(A); Min. 72dB(A) - Tone 2                                                                          |
| Effective range:     | 100m/328ft @ 1KHz                                                                                             |
| Voltages DC:         | 12vdc; 24vdc; 48vdc                                                                                           |
| Voltages AC:         | 115vac; 230vac                                                                                                |
| Stage switching:     | Negative or positive                                                                                          |
| <b>Beacon:</b>       |                                                                                                               |
| Energy:              | 5 Joules (5Ws)                                                                                                |
| Flash rate:          | 1Hz (60 fpm)                                                                                                  |
| Peak Candela:        | 500,000 cd - calculated from energy (J)                                                                       |
| Eff. Intensity:      | 250 cd - calculated from energy (J)                                                                           |
| Peak Candela:        | 34,812 cd* - measured ref. to I.E.S.                                                                          |
| Eff. Intensity:      | 105 cd* - measured ref. to I.E.S.                                                                             |
| Lens colours:        | Amber, Blue, Clear, Green, Red & Yellow                                                                       |
| Tube life :          | Emissions are reduced to 70% after 8 million flashes                                                          |
| <b>General:</b>      |                                                                                                               |
| Ingress protection:  | IP66/67                                                                                                       |
| Enclosure matl:      | Marine grade copper free LM6 Aluminium                                                                        |
| Enclosure finish:    | Chromate & powder coated                                                                                      |
| BEExCS110-05 flare:  | High impact UL94 V0 & 5VA FR ABS (Red)                                                                        |
| BEExDCS110-05 flare: | Anti-Static High impact ABS (Black)                                                                           |
| Cable entries:       | Dual M20 ISO (one stopping plug included)                                                                     |
| Terminals:           | 0.5 - 2.5mm <sup>2</sup> (20-14 AWG)                                                                          |
| Enclosure volume:    | <2 litres                                                                                                     |
| Line monitoring:     | Blocking diode included<br>EOL Min. 500 Ohm 2w, or 3k3 Ohm 0.5w resistor or diode (DC versions) can be fitted |
| Grounding stud:      | M5                                                                                                            |
| Temperature range:   | -50° to +70°C (-58°F to +158°F)                                                                               |
| Relative humidity:   | 90% at 20°C [68°F]                                                                                            |

## Part Codes

|                                                 |                                                                                                                    |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Part Code:</b>                               | <b>Classification:</b>                                                                                             |
| BEExCS11005D**                                  | ATEX / IECEx:<br>II 2G Ex d IIB T4 Ta. -50° to +70°C                                                               |
|                                                 | GOST-R:<br>1ExdIIBT4 Ta. -50° to +55°C                                                                             |
| BEExDCS11005D**                                 | ATEX / IECEx:<br>II 2G Ex d IIB T4 Ta. -50°C to. +70°C<br>II 2D Ex tD A21 IP67 T115°C<br>based on max Ta. of +70°C |
|                                                 | GOST-R:<br>1ExdIIBT4 Ta. -50° to +55°C<br>DIP A21 Ta T5                                                            |
| ** = Voltage reference:                         |                                                                                                                    |
| Options:                                        | 12DC, 24DC, 48DC, 115AC, 230AC                                                                                     |
| Add 'P' to part number for Programmable version |                                                                                                                    |

## Current Consumption

|                 | Alarm Sounder |          | Xenon Beacon |          |
|-----------------|---------------|----------|--------------|----------|
| Version:        | Voltage:      | Current: | Voltage:     | Current: |
| 12V dc          | +/-25%        | 195mA    | 10-14V       | 750mA    |
| 24V dc          | +/-25%        | 265mA    | 20-28V       | 300mA    |
| 48V dc          | +/-25%        | 130mA    | 42-54V       | 180mA    |
| 115V ac 50/60Hz | +/-10%        | 110mA    | +/-10%       | 140mA    |
| 230V ac 50/60Hz | +/-10%        | 56mA     | +/-10%       | 55mA     |

## Tone table

| S 1  | Description                                      | S 2  | S 3  |
|------|--------------------------------------------------|------|------|
| T 1  | Continuous 1000Hz Toxic Gas Alarm                | T 31 | T 11 |
| T 2  | Alternating 800/1000Hz at 0.25s intervals        | T 17 | T 5  |
| T 3  | Slow Whoop 500/1200Hz at 0.3Hz with 0.5s gap ... | T 2  | T 5  |
| T 4  | Sweeping 800/1000 at 1Hz                         | T 6  | T 5  |
| T 5  | Continuous at 2400Hz                             | T 3  | T 27 |
| T 6  | Sweeping 2400/2900Hz at 7Hz                      | T 7  | T 5  |
| T 7  | Sweeping 2400/2900Hz at 1Hz                      | T 10 | T 5  |
| T 8  | Siren 500/1200/500Hz at 0.3Hz                    | T 2  | T 5  |
| T 9  | Sawtooth 1200/500Hz at 1Hz                       | T 15 | T 2  |
| T 10 | Alternating 2400/2900Hz at 2Hz                   | T 7  | T 5  |
| T 11 | Intermittent 1000Hz at 0.5Hz General alarm       | T 31 | T 1  |
| T 12 | Alternating 800/1000Hz at 0.875Hz                | T 4  | T 5  |
| T 13 | Intermittent 2400Hz at 1Hz                       | T 15 | T 5  |
| T 14 | Intermittent 800Hz 0.25s on 1s off               | T 4  | T 5  |
| T 15 | Continuous at 800Hz                              | T 2  | T 5  |
| T 16 | Intermittent 660Hz 150mS on, 150mS off           | T 18 | T 5  |
| T 17 | Alternating 544Hz (100mS)/440Hz(400mS)           | T 2  | T 27 |
| T 18 | Intermittent 660Hz 1.8s on, 1.8s off             | T 2  | T 5  |
| T 19 | 1400Hz to 1600Hz sweep up over 1s -1600Hz to ... | T 2  | T 5  |
| T 20 | Continuous 660Hz                                 | T 2  | T 5  |
| T 21 | Alternating 554/440Hz at 1Hz                     | T 2  | T 5  |
| T 22 | Intermittent 554Hz at 0.875Hz                    | T 2  | T 5  |
| T 23 | 800Hz pulsing at 2Hz                             | T 6  | T 5  |
| T 24 | Sweeping 800/1000Hz at 50Hz                      | T 29 | T 5  |
| T 25 | Sweeping 2400/2900Hz at 50Hz                     | T 29 | T 5  |
| T 26 | Simulated bell sound                             | T 2  | T 1  |
| T 27 | Continuous 554Hz                                 | T 26 | T 5  |
| T 28 | Continuous 440Hz                                 | T 2  | T 5  |
| T 29 | Sweeping 800/1000Hz at 7Hz                       | T 7  | T 5  |
| T 30 | 420Hz repeating 0.625s on, 0.625s off Austral... | T 32 | T 5  |
| T 31 | 1200/500Hz at 1 Hz Prepare to Abandon Platform   | T 11 | T 1  |
| T 32 | Sweeping 500/1200Hz 3.75s on, 0.25s off 15Hz     | T 26 | T 1  |