BExCS110-05-R / BExDCS110-05-R

Omni-directional Alarm Sounder & Xenon Combination

The flameproof BExCS110-05-R combination alarm sounder and Xenon beacon with omni-directional horn is suitable for Zone 1 & Zone 2 applications and the BExDCS110-05-R version also for Zone 21 & 22.

The unique radial horn on the compact BExCS110-05-R distributes the audible warning signal omni-directionally allowing the visual signal to be orientated optimally. Sound level outures are up to 117dB(A) at 1 metre with a choice of 32 alarm tones and 3 remotely selectable stages. Sounder & beacon may be connected from a single supply for simultaneous operation or from separate supplies for independent operation.

Tone table:

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

Country specific or custom tone configurations and alarm frequencies are available upon request.

Effective Candela lens colour factor:

| 1 | Amber | Blue | Clear | Green | Red | Yellow |
|---|-------|------|-------|-------|------|--------|
| (| 0.51 | 0.12 | 1.00 | 0.49 | 0.15 | 0.86 |

Part codes:

| Part Code: | Classification: |
|------------------------|------------------------------------|
| BExCS11005DR** | ATEX / IECEx: |
| | II 2G Ex d IIB T4 Ta50° to +70°C |
| | GOST-R: |
| | 1ExdIIBT4 Ta50° to +55°C |
| BExDCS11005DR** | ATEX / IECEx: |
| | II 2G Ex d IIB T4 Ta50°C to. +70°C |
| | II 2D Ex tD A21 IP67 T115°C |
| | based on max Ta. of +70°C |
| | GOST-R: |
| | 1ExdIIBT4 Ta50° to +55°C |
| | DIP A21 Ta T5 |
| ** = Voltage reference | <u>;</u> |
| | |
| Options: | 12DC, 24DC, 48DC, 115AC, 230AC |

Add '-P' to part number for Programmable version

Alarm Sounder

Current consumption:

| Version: | | Voltage: | Current: |
|----------|---------|----------|----------|
| 12V dc | | +/-25% | 195mA |
| 24V dc | | +/-25% | 265mA |
| 48V dc | | +/-25% | 130mA |
| 115V ac | 50/60Hz | +/-10% | 110mA |
| 230V ac | 50/60Hz | +/-10% | 56mA |

| Kenon Bea | con | | |
|-----------|---------|----------|----------|
| ersion: | | Voltage: | Current: |
| 2V dc | | 10-14V | 750mA |
| 24V dc | | 20-28V | 300mA |
| 18V dc | | 42-54V | 180mA |
| 15V ac | 50/60Hz | +/-10% | 140mA |
| 230V ac | 50/60Hz | +/-10% | 55mA |



Sounder/Horn:

| Sounder/ norm. | |
|---------------------|-----------------------------------------|
| Maximum output: | 117dB(A) @ 1 metre |
| Nominal output: | 110dB(A) @ 1m +/- 3dB - Tone 2 |
| No. of tones: | 32 (UKOOA / PFEER compliant) |
| No. of stages: | 3 |
| Volume control: | Max. 110dB(A); Min. 72dB(A) - Tone 2 |
| Effective range: | 100m @ 1KHz |
| Voltages DC: | 12vdc; 24vdc; 48vdc |
| Voltages AC: | 115vac; 230vac |
| Stage switching: | Negative or positive |
| Beacon: | |
| Energy: | 5 Joules (5Ws) |
| Flash rate: | 1Hz (60 fpm) |
| Peak Candela: | 500,000 cd - calc. from energy (J) |
| Effective candela: | 250 cd - calc. from energy (J) |
| Peak Candela: | 34,812 cd* - measured ref. to I.E.S. |
| Effective candela: | 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 |
| General: | |
| Ingrace protection: | ID66 /67 |

| Ingress protection: | IP66/67 |
|---------------------|---------------------------------------------------------------|
| Housing material: | Marine grade copper free LM6 |
| Housing finish: | Phosphated & powder coated |
| BExCS110-05 flare: | High impact UL94 V0 & 5VA FR ABS (Red) |
| BExDCS110-05 flare: | Anti-Static High impact ABS (Black) |
| Cable entries: | Dual M20 ISO (one stopping plug inc |
| Terminals: | 0.5 to 4.0mm ² cables. |
| Line monitoring : | Min. 500 Ohm 2w, or 3k3 Ohm 0.5w res. or diode (dc versions). |
| Weight: | DC: 4.80kg AC: 5.00kg |

*Candela measurements representative of performance with clear

lens at optimum voltage.

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-eatures:

- Omni-directional sound output.
- 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







