Features

- Omni-directional sound output.
- Glass dome with optically enhanced prismatic PC lens.
- Stainless Steel guard.
- Very large termination area.
- Ratchet adjustable stainless steel ‘U’ bracket.
- The sounder & beacon may be connected from a single supply for simultaneous operation or from separate supplies for independent operation.
- ‘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,

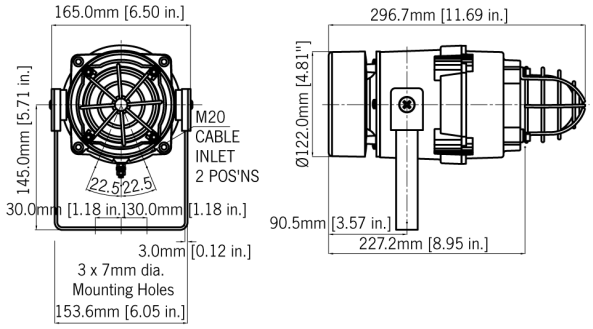
  EN 60079-0 : 2006, EN 60079-1 : 2007,

  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

Sounder/Horn:	
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 (UKOOA / PFEER compliant)
No. of stages:	3
Volume control:	Max. 110dB(A); Min. 72dB(A) – Tone 2
Effective range:	100m/328ft @ 1KHz
Voltages DC:	12V dc; 24V dc; 48V dc
Voltages AC:	115V ac; 230V ac
Stage switching:	Negative or positive
L.E.D. Beacon:	
Light source:	Array of 32 high output L.E.D.s
Eff. Candela:	11cd* – measured ref. to I.E.S.
Lens colours:	Amber, Blue, Green, Red & Yellow
Voltages DC:	10-50V dc
Voltages AC:	115V ac; 230V ac
General:	
Ingress protection:	IP66/67
Enclosure matl:	Marine grade copper free LM6 Aluminium
Enclosure finish:	Chromate & powder coated
BExCS110-L1:	Horn – High impact UL94 V0 & 5VA FR ABS (Red)
BExDCS110-L1:	Horn – Anti-Static High impact ABS (Black)
Cable entries:	Dual M20 ISO (one stopping plug inc)
Terminals:	0.5 – 2.5mm² (20-14 AWG)
Enclosure volume:	<2 litres
Line monitoring:	Blocking diode included 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]
Weight:	DC: 4.80kg/10.56lbs AC: 5.00kg/11lbs

Part Codes

Part Code:	Classification:			
BExCS110L1DR**	ATEX / IECEx: II 2G Ex d IIB T4 Ta. -50° to +70°C |	GOST-R: 1ExdIIBT4 Ta. -50° to +55°C |	ATEX / IECEx: II 2G Ex d IIB T4 Ta. –50°C to. +70°C II 2D Ex tD A21 IP67 T115°C based on max Ta. of +70°C |	GOST-R: 1ExdIIBT4 Ta. -50° to +55°C DIP A21 Ta T5 |

BExDCS110L1DR**

\2. ** = Voltage reference:

Options:	12DC, 24DC, 48DC, 115AC, 230AC
Add '-P' to part number for Programmable version	

Current Consumption

	Alarm Sounder		L.E.D. Beacon	
Version:	**Voltage:**	**Current:**	**Voltage:**	**Current:**
12V dc	+/-25%	195mA	10-50V	750mA
24V dc	+/-25%	265mA	10-50V	400mA
48V dc	+/-25%	130mA	10-50V	210mA
115V ac 50/60Hz	+/-10%	110mA	+/-10%	135mA
230V ac 50/60Hz	+/-10%	56mA	+/-10%	65mA

Beacon modes

Mode:	Stage 1: [Selectable on board]	Stage 2: [Remotely selectable]	Stage 3: [Remotely selectable]
Mode 1	All L.E.D's on	Mode: 9	Mode: 6
Mode 2	Rotating: Slow1	Mode: 9	Mode: 1
Mode 3	Single Flash: 2Hz	Mode: 7	Mode: 1
Mode 4	Rotating: Fast 1	Mode: 3	Mode: 1
Mode 5	Rotating: Slow 2	Mode: 6	Mode: 1
Mode 6	Double Flash: 1Hz	Mode: 7	Mode: 1
Mode 7	Rotating: Fast 2	Mode: 8	Mode: 1
Mode 8	Double Flash: 2Hz	Mode: 9	Mode: 1
Mode 9	Alt. Side Flash: 2Hz	Mode: 7	Mode: 1

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

No liability is accepted for any consequence of the use of this document. The technical specification of this unit is subject to change without notice due to our policy of continual product development. All dimensions are approximate. This unit is sold subject to our standard conditions of sale, a copy of which is available on request.