

[DEMO] E2S BEXCS110-05 EXPLOSION PROOF ALARM & STROBE

\$2,700.00 – \$3,000.00

The flameproof BExCS110-05 combination alarm horn sounders and Xenon strobe beacons are suitable for Zone 1, 2, 21 & 22. Approved to IECEx, ATEX, Ex EAC, and INMETRO standards.



SKU: N/A

Categories: [Beacon Sounder](#), [Fire Alarm System](#), [Fire, Gas & Security](#)
Tags: [Combined Beacon Sounder](#), [e2s](#), [Explosion proof](#), [Fire Alarm System](#), [flameproof](#), [beacon](#), [horn](#), [sounder](#)



Sound level outputs are up to 117dB(A) at 1 meter with a choice of 32 alarm tones and 3 remotely selectable stages. Alarm horn & Xenon beacon may be connected from a single power supply for simultaneous operation or from separate supplies for independent operation. The BEx explosion proof Ex d range features enclosures manufactured from corrosion proof, marine grade copper free LM6 aluminum with a chromate and powder coat finish. All models have dual cable entries, large termination areas containing in & out terminals and an ingress protection of IP66/67.

Downloads

Datasheet	Datasheet.pdf
Installation manual	D210-00-601-IS_Issue_5_BExCS11005DP_BExCS11005DP-R_.pdf
IECEx certificate	IECEx_KEM_10.0025X_Issue_4_BExCS.pdf
ATEX certificate	KEMA_01ATEX2223X_Issue_6_BExCS.pdf
INMETRO certificate	E2S_CoC_IEx_16.0034X_R1_17062019.pdf

Russian Ex certificate	_RU_C_GB.71.B.00109.pdf
RTN permit	RTN_permit_PPC_00-29227.pdf
Russian Fire certificate	Russian_Fire_Certificate_-GB.25_.03286.PDF
Russian Maritime register	19.00195.278.pdf
CCOE PESO	CCOE_P471505_BExCS_110-05_BExCS_110-L2.pdf
Declaration of Conformity	DC-005_Issue_M_BExCS.pdf
2D drawing (PDF)	SK0116_Issue_B.pdf
2D drawing (DWG)	SK0116_Issue_B.dwg
3D drawing (IGS)	SK0116-3D_Issue_A.IGS
3D drawing (STEP)	SK0116-3D_Issue_A.STEP
Pipe Mount Drawing (PDF)	D217-05-601_Issue_B_BExCS.pdf

Features

- Marine grade, corrosion proof, LM6 aluminum enclosure
- Automatic synchronization 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
 - Very large termination area.
 - Dual M20 cable entries – adaptors available.
 - Stopping plug included.
 - Ratchet adjustable stainless steel 'U' bracket.
 - Reverse polarity diode fitted.
 - IP66/67 ingress protection.
 - 120 candela effective light intensity.
 - UV stable PC, field replaceable, color lens filters.
- 'Stage Programmable' version available with 45 tones & 4 remotely selectable stages.

Specification

Alarm Horn Sounder:

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:	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 – calculated from energy (J)
 Eff. Intensity: 250 cd – calculated from energy (J)
 Peak Candela: 39,463 cd* – measured ref. to I.E.S.
 Eff. Intensity: 120 cd* – measured ref. to I.E.S.
 Lens colors: Amber, Blue, Clear, Green, Magenta, Red & Yellow
 Tube life : Emissions are reduced to 70% after 5 million flashes

General:

Ingress protection: IP66/67
 Enclosure matl: Marine grade copper free LM6 Aluminum
 Enclosure finish: Chromate & powder coated
 Horn material: High impact UL94 V0 & 5VA FR ABS (Red)
 Cable entries: Dual M20 ISO (one stopping plug included)
 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
 Temperature range: -50° to +70°C (-58°F to +158°F)
 Relative humidity: 95% – Additional tropicalisation is recommended for
 applications where both high relative humidity and high ambient temperatures
 exist
 Weight: DC: 4.80kg/10.56lbs AC: 5.00kg/11lbs
 SPL data +/-3dB(A), Candela with clear lens – at optimum
 voltage

Part Codes

Version:	Part code:	Description:
Product type:	BExCS11005	Explosion proof Alarm Horn Sounder & 5J Xenon Beacon
Type:	DPF	Ex d, UV stable PC Colour Lens, Flare Horn
Voltage:	DC012 DC024 DC048 AC115 AC230	12V dc 24V dc 48V dc 115V ac 240V ac
Cable Entry Type:[e]	A B C D E F G	2 x M20x1.5mm 2 x 1/2" NPT – adaptors 2 x 3/4" NPT – adaptors 2 x M25x1.5mm – adaptors 1 x 1/2" NPT – adaptor 1 x 3/4" NPT – adaptor 1 x M25x1.5mm – adaptor
Adaptor/Stopping plug material: [m]	B N S	Brass Nickel Plated Stainless Steel

Bracket/Guard matl & tag: [s]	1 2 3 4	A2 304 Stainless Steel A4 316 Stainless Steel A2 304 St/St with Equip. Tag A4 316 St/St with Equip. Tag
Product version: [v]	A1 P1 T1	Default – IECEX, ATEX, Ex EAC & INMETRO Stage programmable – IECEX, ATEX, Ex EAC & INMETRO Tropicalised – IECEX, ATEX, Ex EAC & INMETRO
Enclosure colour: [x]	R S	Red RAL3000 Special – contact E2S
Lens colour: [y]	A B C G M R Y	Amber Blue Clear Green Magenta Red Yellow
Accessories:	SP65-0001-A2 SP65-0001-A4 SP65-0003-A2 SP65-0003-A4	Pole Mount Bracket Kit 2" St/St A2 (304) Pole Mount Bracket Kit 2" St/St A4 (316) Sunshade – St/St A2 (304) Sunshade – St/St A4 (316)

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

Approvals

- IECEX KEM 10.0025X
- ATEX KEMA 01ATEX2223X
- TR-CU Ex EAC certificate: RU C-GB.AA71.B.00109
- INMETRO certificate: 16-IEEx-0034
- PESO CCOE certified: P471505

Coding

- II 2G Ex db IIB T5 Gb Ta. -50°C to +40°C
- II 2G Ex db IIB T4 Gb Ta. -50°C to +70°C
- II 2D Ex tb IIIC T110°C Db Ta. -50°C to +55°C
- II 2D Ex tb IIIC T125°C Db Ta. -50°C to +70°C

Effective Candela lens color factor

Amber Blue Clear Green Red Yellow

0.70

0.24

1.00

0.25

0.23

0.93

Tone Table

Stage 1	WAV file	Frequency Description.	Stg 2	Stg 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 repeated	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 1400Hz sweep down over 0.5s	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 Australian alert signal	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

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



ADDITIONAL INFORMATION

Weight	N/A
Dimensions	N/A
Voltage Level	12V DC, 24V DC, 48V DC, 115V AC, 230V AC
Cable Entry	1 x 1/2" NPT – adaptor, 1 x 3/4" NPT – adaptor, 1 x M20 x 1.5mm, 1 x M25 x 1.5mm – adaptor, 2 x 1/2" NPT – adaptors, 2 x 3/4" NPT – adaptors, 2 x M20 x 1.5mm
Type	Ex d, UV stable PC Colour Lens, Flare Horn
Adaptor / Plug Material	Brass, Nickel Plated, Stainless Steel
Enclosure Color	Red RAL3000, Special – Contact Us
Bracket / Guard Material & Tag	304 Stainless Steel, 304 Stainless Steel with Equip Tag, 316 Stainless Steel, 316 Stainless Steel with Equip Tag
Lens Color	Amber, Blue, Clear, Green, Magenta, Red, Yellow