

STExC1X05R Radial Alarm Horn & Xenon Strobe

The STExC1X05R is a high output 115dB(A) alarm horn with omni-directional radial horn & 5 Joule Xenon strobe. The robust Type 4/4X, IP66 316L enclosure ensures suitability for all IECEx & ATEX Zone 1, 2, 21 & 22 applications.

The alarm horn & Xenon strobe allow simultaneous or independent operation. Featuring 64 first stage/channel alarm sounds, the alarm tone frequencies for the first 2 stages are independently selectable. Each of the available 4 stage/channels can be remotely triggered e.g. via an external relay.

Features

- Robust corrosion proof 316L stainless steel enclosure
- High output; up to 115dB(A)
- 4 remotely selectable alarm stages/channels
- Positive or negative line stage/channel switching
- Choice of 64 alarm tone frequencies
- User selectable strobe flash rates
- Field replaceable lens colour filter
- Automatic synchronisation on multi-beacon & sounder systems
- Continuously rated
- Compact form factor
- Stainless steel fixings
- Ratchet adjustable 316 stainless steel bracket
- 316 Stainless steel stopping plugs included
- 3 x cable entries
- Duplicate cable terminations (in & out for daisy-chain installations)
- Available with custom tone configurations and frequencies

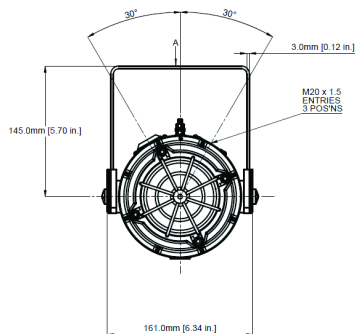
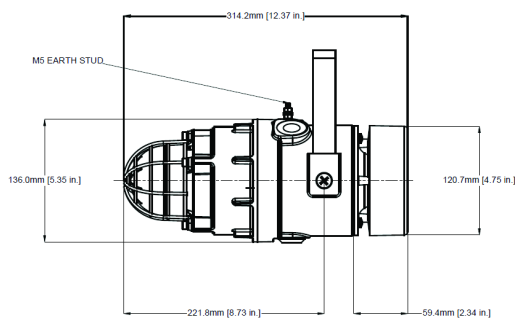
Approvals

- IECEx ULD 16.0017X
IEC 60079-0 : 2011
IEC 60079-1 : 2014
IEC 60079-31 : 2013
- ATEX DEMKO 16 ATEX 1466X
EN 60079-0 : 2012 + A11 : 2013
EN 60079-1 : 2014
EN 60079-31 : 2014
- TR-CU Ex EAC certificate: RU C-GB.AA71.B.00109

Coding

- II 2G Ex db IIC Gb T6 Ta -50°C to +40°C
- II 2G Ex db IIC Gb T5 Ta -50°C to +55°C
- II 2G Ex db IIC Gb T4 Ta -50°C to +70°C
- II 2D Ex tb IIIC Db T110°C Ta -50°C to +70°C





Specification

Alarm Horn:

Maximum output: 115dB(A) @ 1 metre [106dB(A) @ 10ft/3m]

Nominal output: 110dB(A) @ 1m +/- 3dB - Tone 2 [101dB(A) @ 10ft/3m]

No. of tones: 64 (UK00A / PFEER compliant)

No. of stages: 4

Volume control: Adjustable -12dB(A)

Effective range: 125m/410ft @ 1KHz

Supply Voltages: 12Vdc, 24Vdc, 48Vdc; 230Vac

Stage switching: DC units: negative or positive
AC units: common supply line

Strobe Beacon:

Energy: 5 Joules (5Ws)

Flash rates: Option 1: 1Hz (60 fpm)
Option 2: 1.5Hz (90 fpm)
Option 3: Double Strike

Peak Candela: 500,000 cd - calculated from energy (J)

Eff. Intensity: 250 cd - calculated from energy (J)

Peak Candela: 46,976 cd* - measured ref. to I.E.S.

Eff. Intensity: 143 cd* - measured ref. to I.E.S.

Lens colours: Amber, Blue, Clear, Green, Magenta, Red & Yellow

Tube life : Emissions are reduced to 70% after 5 million flashes

General:

Ingress protection: EN60529: IP66

Enclosure matl: 316L Stainless Steel

Enclosure finish: Chromated & powder coated

Colour: RAL3000 Red

Cable entries: 3 x M20 ISO (2 x stopping plugs included as standard)
Adaptors to M25, 1/2" & 3/4" NPT can be specified

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: 95% - Additional tropicalisation is recommended

Part Codes

Version: _____ Part code: _____

Product type: STExC1X05

Horn type: R Radial - omnidirectional horn

Voltage: DC012 12V dc
DC024 24V dc
DC048 48V dc
AC230 230V ac

Cable Entry Type: A 3 x M20x1.5mm
[e] B 2 x 1/2" NPT - adaptors
C 2 x 3/4" NPT - adaptors
D 2 x M25x1.5mm - adaptors
E 1 x 1/2" NPT - adaptor
F 1 x 3/4" NPT - adaptor
G 1 x M25x1.5mm - adaptor

Adaptor/Stopping B Brass
plug material: [m] N Nickel Plated
S Stainless Steel (standard)

Bracket/Guard 1 A2 304 Stainless Steel
matl & tag: [s] 2 A4 316 Stainless Steel (default)
3 A2 304 St/St with Equip. Tag
4 A4 316 St/St with Equip. Tag

Product version: [v]A1 IECEx & ATEX Group II 2G/D Zone 1, 2, 21 & 22

Enclosure colour: R Red RAL3000
[x]

Lens colour: [y] A Amber
B Blue
C Clear
G Green
M Magenta
R Red
Y Yellow

Accessories: SP65-0001-A2 Pole Mount Bracket Kit 2" St/St A2 (304)
SP65-0001-A4 Pole Mount Bracket Kit 2" St/St A4 (316)
SP65-0003-A2 Sunshade - St/St A2 (304)
SP65-0003-A4 Sunshade - St/St A4 (316)

Current Consumption

Voltage:	Range:	Alarm Horn	Xenon Strobe	Combined
12V dc	10-14Vdc	146mA	678mA	824mA
24V dc	20-28Vdc	185mA	323mA	508mA
48V dc	42-54Vdc	138mA	198mA	336mA
230V ac	220-240Vac 50/60Hz	21mA	79mA	106mA

Nominal current. Alarm horn sounder: Tone 2, Xenon Strobe: 1Hz Flash Rate

Tone table

S 1	Description	S 2	S 3	S 4	S 1	Description	S 2	S 3	S 4
T1	1000 Continuous PFEER Toxic Gas	Any	T2	T44	T33	800 (0.25s on, 1.00s off) Intermittent	Any	T24	T8
T2	1200/500 @ 1Hz Sweeping DIN/PFEER P.T.A.P.	Any	T3	T44	T34	800 @ 2Hz (0.25s on, 0.25s off) IMO code 3.a ...	Any	T24	T8
T3	1000 @ 0.5Hz (1s on, 1s off) Intermittent PFE...	Any	T2	T44	T35	1000 @ 1Hz (0.50s on, 0.50s off) Intermittent	Any	T24	T8
T4	1.4KH-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s NF C 48-265	Any	T24	T1	T36	2400 @ 1Hz (0.50s on, 0.50s off) Intermittent	Any	T24	T8
T5	544(100mS)/440 (400mS) NF S 32-001	Any	T19	T1	T37	2900 @ 5Hz (0.10s on, 0.10s off) Intermittent	Any	T24	T8
T6	1500/500 - (0.5s on, 0.5s off) x3 + 1s gap A...	Any	T44	T1	T38	363/518 @ 1Hz (0.50s/0.50s) Alternating	Any	T8	T19
T7	500-1500Hz Sweeping 2 sec on 1 sec off AS4428	Any	T44	T1	T39	450/500 @ 2Hz (0.25s/0.25s) Alternating	Any	T8	T19
T8	500/1200Hz @ 0.26Hz(3.3s on, 0.5s off) NEN 2575	Any	T24	T35	T40	554/440 @ 1Hz (0.50s/0.50s) Alternating	Any	T24	T19
T9	1000 (1s on, 1s off)x7 + (7s on, 1s off) IMO ...	Any	T34	T1	T41	554/440 @ 0.65Hz (0.76s/0.76s) Alternating	Any	T8	T19
T10	1000 (1s on, 1s off)x7 + (7s on, 1s off) IMO ...	Any	T34	T1	T42	561/760 @ 0.83Hz (0.60s/0.60s) Alternating	Any	T8	T19
T11	420(0.5s on, 0.5s off)x3 + 1s gap ISO 8201 Te...	Any	T1	T8	T43	780/600 @ 0.96Hz (0.52s/0.52s) Alternating	Any	T8	T19
T12	1000(0.5s on, 0.5s off)x3 + 1s gap ISO 8201 T...	Any	T1	T8	T44	800/1000 @ 2Hz (0.25s/0.25s) Alternating	Any	T24	T19
T13	422/775 (0.85 on, 0.5 off) x3 + 1s gap NFPA T...	Any	T1	T8	T45	970/800 @ 2Hz (0.25s/0.25s) Alternating	Any	T8	T19
T14	1000/2000 @ 1Hz - Singapore	Any	T3	T35	T46	800/1000 @ 0.875Hz (0.57s/0.57s) Alternating	Any	T24	T19
T15	300 Continuous	Any	T24	T35	T47	2400/2900 @ 2Hz (0.25s/0.25s) Alternating	Any	T24	T19
T16	440 Continuous	Any	T24	T35	T48	500/1200 @ 0.3Hz (1.67s/1.67s) Sweeping	Any	T24	T12
T17	470 Continuous	Any	T24	T35	T49	560/1055 @ 0.18Hz (2.73s/2.73s) Sweeping	Any	T24	T12
T18	500 Continuous IMO code 2 (Low)	Any	T24	T35	T50	560/1055 @ 3.3Hz (0.15s/0.15s) Sweeping	Any	T24	T12
T19	554 Continuous	Any	T24	T35	T51	600/1250 @ 0.125Hz (4s/4s) Sweeping	Any	T24	T12
T20	660 Continuous	Any	T24	T35	T52	660/1200 @ 1Hz (0.50s/0.50s) Sweeping	Any	T24	T12
T21	800 Continuous IMO code 2 (High)	Any	T24	T35	T53	800/1000 @ 1Hz (0.50s/0.50s) Sweeping	Any	T24	T12
T22	1200 Continuous	Any	T24	T35	T54	800/1000 @ 7Hz (0.07s/0.07s) Sweeping	Any	T24	T12
T23	2000 Continuous	Any	T3	T35	T55	800/1000 @ 50Hz (0.01s/0.01s) Sweeping	Any	T24	T12
T24	2400 Continuous	Any	T20	T35	T56	2400/2900 @ 7Hz (0.07s/0.07s) Sweeping	Any	T24	T12
T25	440 @ 0.83Hz (0.60s on, 0.60s off) Intermittent	Any	T44	T8	T57	2400/2900 @ 1Hz (0.50s/0.50s) Sweeping	Any	T24	T12
T26	470 @ 0.9Hz (0.55s on, 0.55s off) Intermittent	Any	T44	T8	T58	2400/2900 @ 50Hz (0.01s/0.01s) Sweeping	Any	T24	T12
T27	470 @ 5Hz (0.10s on, 0.10s off) Intermittent	Any	T44	T8	T59	2500/3000 @ 2Hz (0.25s/0.25s) Sweeping	Any	T24	T12
T28	544 @ 1.14Hz (0.43s on, 0.44s off) Intermittent	Any	T24	T8	T60	2500/3000 @ 7.7Hz (0.65s/0.65s) Sweeping	Any	T24	T12
T29	655 @ 0.875Hz (0.57s on, 0.57s off) Intermittent	Any	T44	T8	T61	800Hz Motor Siren	Any	T24	T12
T30	660 @ 0.28Hz (1.80s on, 1.80s off) Intermittent	Any	T24	T8	T62	1200Hz Motor Siren	Any	T24	T12
T31	660 @ 3.3Hz (0.15s on, 0.15s off) Intermittent	Any	T24	T8	T63	2400Hz Motor Siren	Any	T24	T12
T32	745 @ 1Hz (0.50s on, 0.50s off) Intermittent	Any	T24	T8	T64	Simulated Bell	Any	T21	T12