1-23-090 / Stainless Steel Explosion/Flameproof

STExC1X05F Alarm Horn & Xenon Strobe

117dB(A) horn & 5 Joule Xenon. The STExC1X05F is a high output alarm horn sounder with re-entrant flare horn combined with a 500,000cd Xenon strobe beacon. The robust IP66 316L stainless steel enclosure ensures the STExC1X05F is suitable for all IECEx & ATEX Zone 1, 2, 21 & 22 explosion proof signaling 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 117dB(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

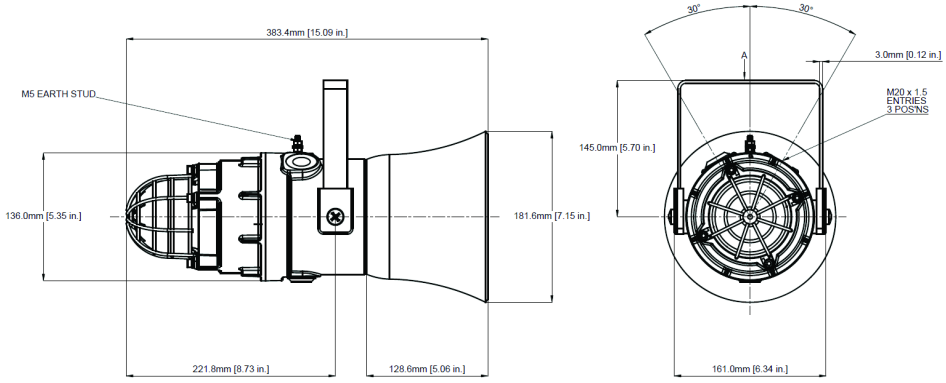
- IECEx ULD 16.0017X
  IEC 60079-0 : 2011
  IEC 60079-1 : 2014
  IEC 60079-31 : 2013

- 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:	117dB(A) @ 1 metre [108dB(A) @ 10ft/3m]
Nominal output:	113dB(A) @ 1m +/- 3dB - Tone 2 [104dB(A) @ 10ft/3m]
No. of tones:	64 (UKOOA / PFEER compliant)
No. of stages:	4
Volume control:	Adjustable -12dB(A)
Effective range:	125m/410ft @ 1KHz
Supply Voltages:	24Vdc; 115Vac; 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 supplied) 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 for applications where both high relative humidity and

Part Codes

Version:	Part code:	
Product type:	STExC1X05	
Horn type:	F	Flare re-entrant horn
Voltage:	DC012	12V dc
	DC024	24V dc
	DC048	48V dc
	AC230	230V ac
Cable Entry Type: [e]	A	3 x M20x1.5mm
	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
Note:		*M20 stopping plugs for unused entries supplied*
Adaptor/Stopping plug material: [m]	B	Brass
	N	Nickel Plated
	S	Stainless Steel (standard)
Bracket/Guard material: [s]	1	A2 304 Stainless Steel
	2	A4 316 Stainless Steel (default)
	3	A2 304 St/St with Equip. Tag
	4	A4 316 St/St with Equip. Tag (304)
Product version: [v]	A1	IECEx & ATEX Group II 2G/D Zone 1, 2, 21 & 22
Enclosure colour: [x]	R	Red RAL3000
Lens colour: [y]	A	Amber
	B	Blue
	C	Clear
	G	Green
	M	Magenta
	R	Red
	Y	Yellow
Example part code:	STExC1X05FAC230 [e][m][s][v][x]/[y] STExC1X05FAC230AS2A1R/R	

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