

GNExS2 Alarm Horn Sounder 123dB(A)

The flameproof GNExS2 alarm sounder is suitable for Zone 1 & Zone 2 applications – certified to ATEX and IECEx. Sound level outputs up to 123dB(A) at 1 metre with a choice of 64 alarm tones and 4 remotely selectable stages.

The alarm tone frequencies for the first 2 stages are independently selectable. The GNEx range features enclosures manufactured from GRP (glass reinforced polyester), moulded in natural red, but also available in other colours.

The re-entrant flare horn is high impact, fire retardant ABS. All models contain dual cable entries, large termination areas containing in & out terminals and an ingress protection of IP66/67. SIL1 compliant to IEC61508 (2010) as standard.

Features

- Automatic synchronisation on multi-sounder system.
- Very large termination area.
- Ratchet adjustable stainless steel 'U' bracket.
- IN & OUT terminals.
- Independently selectable tones for 1st & 2nd stages.
- Four remotely switched stages/channels.
- SIL1 compliant to IEC61508 (2010).

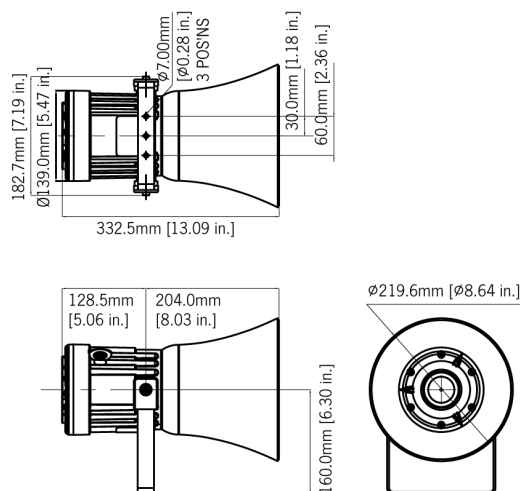
Approvals

- ATEX certificate: SIRA 13ATEX1139X, EN 60079-0 : 2012, EN 60079-1 : 2007
- IECEx certificate: IECEx SIR 13.0029X, IEC 60079-0 : 2011 (Ed6), IEC 60079-1 : 2007 (Ed6)
- TR-CU Ex EAC certificate: RU C-GB.AA71.B.00109

Coding

- II 2G Ex d IIC T4 Ta. -60° to +50°C
- II 2G Ex d IIC T3 Ta. -60° to +58°C
- II 2G Ex d IIB T6 Ta. -60° to +50°C
- II 2G Ex d IIB T5 Ta. -60° to +58°C





Specification

| | |
|---------------------|--|
| Maximum output: | 123dB(A) @ 1 metre [114dB(A) @ 10ft/3m] |
| Nominal output: | 117dB(A) @ 1m +/- 3dB - Tone 2 [108dB(A) @ 10ft/3m] |
| No. of tones: | 64 (UKOOA / PFEER compliant) |
| No. of stages: | 4 |
| Volume control: | Max. 117dB(A); Min. 108dB(A) - Tone 44 |
| Effective range: | 200m/656ft @ 1KHz |
| Voltages DC: | 24vdc (10-30vdc), 48vdc (38-60vdc) |
| Voltages AC: | 230vac (100-260vac) |
| Stage switching: | Negative or positive |
| Ingress protection: | IP66/67 |
| Enclosure matl: | GRP (glass reinforced polyester) |
| Colour: | RAL3000 Red (others available on request) |
| Flare matl: | High impact UL94 V0 & 5VA FR ABS (Red) |
| Cable entries: | Dual M20 ISO |
| Terminals: | 0.5 - 2.5mm ² (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 |
| Relative humidity: | 95% - Additional tropicalisation is recommended for applications where both high relative humidity and high ambient temperatures exist |
| Weight: | DC: 3.35kg/7.37lbs AC: 3.55kg/7.81lbs |

Part Codes

| Version: | Part code: | Description |
|-----------------------------|--------------|--|
| Product type: | GNExS2 | GNExS2 with Flare horn |
| Voltage: | DC024 | 10-30V dc |
| | DC048 | 35-60V dc |
| | AC230 | 110-260V 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 |
| Stopping plug material: [m] | B | Brass |
| | N | Nickel Plated |
| | S | Stainless Steel |
| Bracket material: [s] | 1 | A2 304 Stainless Steel |
| | 2 | A4 316 Stainless Steel |
| | 3 | A2 304 St/St with Equip. Tag |
| | 4 | A4 316 St/St with Equip. Tag |
| Product version: [v] | A1 | Approval to ATEX & IECEx (default) |
| Enclosure colour: [x] | R | Red |
| 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

| Version: | Voltage: | Current: |
|--------------------|------------|----------------|
| 24V dc | 10-30Vdc | 811mA @ 24Vdc |
| 48V dc | 38-60Vdc | 434mA @ 48Vdc |
| 115V ac 50/60Hz | 100-230Vac | 297mA @ 115Vac |
| 230V ac 50/60Hz | 100-230Vac | 196mA @ 230Vac |

Tone table

| S 1 | Description | S 2 | S 3 | S 4 | S 1 | Description | S 2 | S 3 | S 4 |
|------|--|-----|------|------|------|---|-----|------|------|
| T 2 | 1200/500 @ 1Hz Sweeping - DIN / PFEER P.T.A.P. | Any | T 3 | T 44 | T 34 | 800 @ 2Hz (0.25s on, 0.25s off) - IMO code 3... | Any | T 24 | T 8 |
| T 3 | 1000 @ 0.5Hz (1s on, 1s off) Intermittent - P... | Any | T 2 | T 44 | T 35 | 1000 @ 1Hz (0.50s on, 0.50s off) Intermittent | Any | T 24 | T 8 |
| T 4 | 1.4KH-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s - NF C 48... | Any | T 24 | T 1 | T 36 | 2400 @ 1Hz (0.50s on, 0.50s off) Intermittent | Any | T 24 | T 8 |
| T 5 | 544(100mS)/440 (400mS) - NF S 32-001 | Any | T 19 | T 1 | T 37 | 2900 @ 5Hz (0.10s on, 0.10s off) Intermittent | Any | T 24 | T 8 |
| T 6 | 1500/500 - (0.5s on , 0.5s off) x3 + 1s gap -... | Any | T 44 | T 1 | T 38 | 363/518 @ 1Hz (0.50s / 0.50s) Alternating | Any | T 8 | T 19 |
| T 7 | 500-1500Hz Sweeping 2 sec on 1 sec off - AS4428 | Any | T 44 | T 1 | T 39 | 450/500 @ 2Hz (0.25s / 0.25s) Alternating | Any | T 8 | T 19 |
| T 8 | 500/1200Hz @ 0.26Hz(3.3s on, 0.5s off) - NEN ... | Any | T 24 | T 35 | T 40 | 554/440 @ 1Hz (0.50s / 0.50s) Alternating | Any | T 24 | T 19 |
| T 9 | 1000 (1s on, 1s off)x7 + (7s on, 1s off) - IM... | Any | T 34 | T 1 | T 41 | 554/440 @ 0.65Hz (0.76s / 0.76s) Alternating | Any | T 8 | T 19 |
| T 10 | 1000 (1s on, 1s off)x7 + (7s on, 1s off) - IM... | Any | T 34 | T 1 | T 42 | 561/760 @ 0.83Hz (0.60s / 0.60s) Alternating | Any | T 8 | T 19 |
| T 11 | 420(0.5s on, 0.5s off)x3 + 1s gap - ISO 8201 ... | Any | T 1 | T 8 | T 43 | 780/600 @ 0.96Hz (0.52s / 0.52s) Alternating | Any | T 8 | T 19 |
| T 12 | 1000(0.5s on, 0.5s off)x3 + 1s gap - ISO 8201... | Any | T 1 | T 8 | T 44 | 800/1000 @ 2Hz (0.25s / 0.25s) Alternating | Any | T 24 | T 19 |
| T 13 | 422/775 - (0.85 on, 0.5 off) x3 + 1s gap - ... | Any | T 1 | T 8 | T 45 | 970/800 @ 2Hz (0.25s / 0.25s) Alternating | Any | T 8 | T 19 |
| T 14 | 1000/2000 @ 1Hz - Singapore | Any | T 3 | T 35 | T 46 | 800/1000 @ 0.875Hz (0.57s / 0.57s) Alternating | Any | T 24 | T 19 |
| T 15 | 300 Continuous | Any | T 24 | T 35 | T 47 | 2400/2900 @ 2Hz (0.25s / 0.25s) Alternating | Any | T 24 | T 19 |
| T 16 | 440 Continuous | Any | T 24 | T 35 | T 48 | 500/1200 @ 0.3Hz (1.67s / 1.67s) Sweeping | Any | T 24 | T 12 |
| T 17 | 470 Continuous | Any | T 24 | T 35 | T 49 | 560/1055 @ 0.18Hz (2.73s / 2.73s) Sweeping | Any | T 24 | T 12 |
| T 18 | 500 Continuous - IMO code 2 (Low) | Any | T 24 | T 35 | T 50 | 560/1055 @ 3.3Hz (0.15s / 0.15s) Sweeping | Any | T 24 | T 12 |
| T 19 | 554 Continuous | Any | T 24 | T 35 | T 51 | 600/1250 @ 0.125Hz (4s / 4s) Sweeping | Any | T 24 | T 12 |
| T 20 | 660 Continuous | Any | T 24 | T 35 | T 52 | 660/1200 @ 1Hz (0.50s / 0.50s) Sweeping | Any | T 24 | T 12 |
| T 21 | 800 Continuous - IMO code 2 (High) | Any | T 24 | T 35 | T 53 | 800/1000 @ 1Hz (0.50s / 0.50s) Sweeping | Any | T 24 | T 12 |
| T 22 | 1200 Continuous | Any | T 24 | T 35 | T 54 | 800/1000 @ 7Hz (0.07s / 0.07s) Sweeping | Any | T 24 | T 12 |
| T 23 | 2000 Continuous | Any | T 3 | T 35 | T 55 | 800/1000 @ 50Hz (0.01s / 0.01s) Sweeping | Any | T 24 | T 12 |
| T 24 | 2400 Continuous | Any | T 20 | T 35 | T 56 | 2400/2900 @ 7Hz (0.07s / 0.07s) Sweeping | Any | T 24 | T 12 |
| T 25 | 440 @ 0.83Hz (0.60s on, 0.60s off) Intermittent | Any | T 44 | T 8 | T 57 | 2400/2900 @ 1Hz (0.50s / 0.50s) Sweeping | Any | T 24 | T 12 |
| T 26 | 470 @ 0.9Hz (0.55s on, 0.55s off) Intermittent | Any | T 44 | T 8 | T 58 | 2400/2900 @ 50Hz (0.01s / 0.01s) Sweeping | Any | T 24 | T 12 |
| T 27 | 470 @ 5Hz (0.10s on, 0.10s off) Intermittent | Any | T 44 | T 8 | T 59 | 2500/3000 @ 2Hz (0.25s / 0.25s) Sweeping | Any | T 24 | T 12 |
| T 28 | 544 @ 1.14Hz (0.43s on, 0.44s off) Intermittent | Any | T 24 | T 8 | T 60 | 2500/3000 @ 7.7Hz (0.65s / 0.65s) Sweeping | Any | T 24 | T 12 |
| T 29 | 655 @ 0.875Hz (0.57s on, 0.57s off) Intermittent | Any | T 44 | T 8 | T 61 | 800Hz Motor Siren | Any | T 24 | T 12 |
| T 30 | 660 @ 0.28Hz (1.80s on, 1.80s off) Intermittent | Any | T 24 | T 8 | T 62 | 1200Hz Motor Siren | Any | T 24 | T 12 |
| T 31 | 660 @ 3.3Hz (0.15s on, 0.15s off) Intermittent | Any | T 24 | T 8 | T 63 | 2400Hz Motor Siren | Any | T 24 | T 12 |
| T 32 | 745 @ 1Hz (0.50s on, 0.50s off) Intermittent | Any | T 24 | T 8 | T 64 | Simulated Bell | Any | T 21 | T 12 |
| T 33 | 800 (0.25s on, 1.00s off) Intermittent | Any | T 24 | T 8 | | | | | |