

IS-A105N Alarm Sounder

The IS-A105N is a high output, 105dB(A) alarm sounder. Approvals include ATEX, IECEx and GOST-R for Zone 0 applications and FM approval for Class I Division 1 and Class I Zone 0 applications.

The IS-A105N is suitable for all intrinsically safe signalling applications including fire, security and process control.

Features

- Input overload and reverse current protection
- Auto synchronised sound output
- Unit can be mounted using external lugs or internal BESA compatible fixing positions.
- Duplicate cable terminations (in & out for daisy-chain installations).
- Available with custom tone configurations and frequencies.

Approvals

- ATEX certificate: SIRA 04ATEX2301X
- IECEx certificate: IECEx SIR 04.0038X
- FM approved:
- Ex EAC certificate: POCC GB.JB05.B03365



Specification

Nominal output:	105dB(A) @ 1m +/- 3dB - Tone 2* [96dB(A) @ 10ft/3m]
No. of tones:	49 (UK00A/PFEER compliant)
No. of stages:	3
Volume control:	Max. 105dB(A); Min. 96dB(A) - Tone 2
Effective range:	60m/197ft @ 1KHz
Voltage:	16-28vdc via Zener barrier or galvanic isolator
Current:	25mA typical when powered from 24v supply via 28v 300 Ohm Zener barrier
Ingress protection:	IP66
Rating:	Continuous
Housing material:	UL94V0 & 5VA FR ABS
Housing colour:	RAL3000 Red, RAL7038 Grey and White
Fixings:	Stainless Steel
Cable entries:	2 x M20 clearance gland knockouts. Custom configurations also available.
Terminals:	0.5 to 2.5mm ²
Operating temp:	-40° to +60°C [-40 to +140°F]
Storage temp:	-40° to +70°C [-40 to +158°F]
Relative humidity:	90% at 20°C [68°F]
Weight :	0.75kg/1.65lbs

Part Codes

ISA105N-[x]	
ATEX / IECEx / FM	
II 1G Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +60°C)	
IS Class I, Zone 0, AEx ia IIC T4 Ta = +60°C	
IS Class I, Division 1, Groups A, B, C, D T4	
Ex EAC	
0ExialICT4 IP66 -40° to +60°C	
[x] : Housing colour:	R: Red G: Grey
May be powered from any certified Zener barrier or galvanic isolator whose output parameters do not exceed:	
Uo : 28VDC Io : 93mA Po : 660mW	

Tone table

S 1 Description

T 1	340 Hz Continuous
T 2	800/1000Hz @ 0.25 sec Alternating
T 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop
T 4	800/1000Hz @ 1Hz Sweeping
T 5	2400Hz Continuous
T 6	2400/2900Hz @ 7Hz Sweeping
T 7	2400/2900Hz @ 1Hz Sweeping
T 8	500/1200/500Hz @ 0.3Hz Sweeping
T 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.
T 10	2400/2900Hz @ 2Hz Alternating
T 11	1000Hz @ 1Hz Intermittent
T 12	800/1000Hz @ 0.875Hz Alternating
T 13	2400Hz @ 1Hz Intermittent
T 14	800Hz 0.25sec on, 1 sec off Intermittent
T 15	800Hz Continuous
T 16	660Hz 150mS on, 150mS off Intermittent
T 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001
T 18	660Hz 1.8sec on, 1.8sec off Intermittent
T 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265
T 20	660Hz Continuous
T 21	554Hz/440Hz @ 1Hz Alternating
T 22	544Hz @ 0.875 sec. Intermittent
T 23	800Hz @ 2Hz Intermittent
T 24	800/1000Hz @ 50Hz Sweeping
T 25	2400/2900Hz @ 50Hz Sweeping
T 26	Bell
T 27	554Hz Continuous
T 28	440Hz Continuous
T 29	800/1000Hz @ 7Hz Sweeping
T 30	300Hz Continuous
T 31	660/1200Hz @ 1Hz Sweeping
T 32	Two T chime.

S 1 Description

T 33	745Hz @ 1Hz Intermittent
T 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore
T 35	420Hz @ 0.625 sec Australian Alert
T 36	500-1200Hz 3.75sec /0.25sec. Australian Evac.
T 37	1000Hz Continuous - PFEER Toxic Gas
T 38	2000Hz Continuous
T 39	800Hz 0.25sec on, 1 sec off Intermittent
T 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001
T 41	Motor Siren - slow rise to 1200 Hz
T 42	Motor Siren - slow rise to 800 Hz
T 43	1200 Hz Continuous
T 44	Motor Siren - slow rise to 2400 Hz
T 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. ...
T 46	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.
T 47	1KHz 1s on, 1s off Intermittent - PFEER Gen. ...
T 48	420Hz @ 0.625 sec Australian Alert
T 49	500-1200Hz 3.75sec /0.25sec. Australian Evac.