IS-A105N/IS-L101L Intrinsically Safe Alarm Sounder & LED beacon



Intrinsically Safe combination L.E.D beacon/light & alarm horn.

The IS-A105N+IS-L101L unit is an intrinsically safe field mounting combined alarm horn with L.E.D. beacon/light which provides a a loud audible and bright flashing visual signal utilising a common zener barrier or galvanic isolator. The alarm horn features an alarm accept function - by closing a pair of external contacts (i.e push switch) the operator may silence the alarm for set periods between 5 seconds and 2 hours. If after the preset time the alarm condition still exists the sounder will activate again. Certified for use in application requiring Ex ia or Class I Div 1 equipment the IS-A105N+IS-L101L is a globally accepted solution to fire or process control signalling.

Features

- Input overload and reverse current protection
- · Prismatic Iens optimises L.E.D effectiveness
- 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
- Available with custom tone configurations and frequencies.

Approvals

- ATEX certificate: SIRA 04ATEX2 301X, EN 60079-0: 2012, EN 60079-11: 2012, IEC 60079-26: 2014
- IECEx certificate: IECEx SIR 04.0038X, IEC 60079-0: 2011, IEC 60079-11: 2011,
- IEC 60079-26: 2014
- FM approved: Class 3600 1998, Class 3610 2010, Class 3810 2005, IEC 60529: 1989
- GOST-R certificate: POCC GB.JB05.B03365







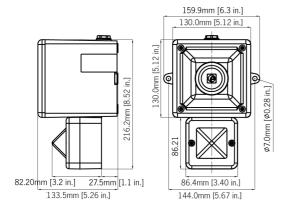












Specification

Sounder/horn:

Journaer/Horn.		
Nominal output:	105dB(A) @ 1m +/- 3dB - Tone 2* [96dB(A) @ 10ft/3m]	
No. of tones:	49 (UKOOA/PFEER compliant)	
No. of stages:	3	
Volume control:	Max. 105dB(A); Min. 96dB(A) - Tone 2	
Effective range:	60m/197ft @ 1KHz	
Beacon/light:		
Light source:	Array of 6 high intensity L.E.D's	
L.E.D. colours:	Red, Amber, Blue & Green	
Standalone mode:	2 Hz (2 double flashes per second)	
Effective intensity cd:	48cd* - measured ref. to I.E.S.	
Flash rate:	On: 1 Hz (1 double flash per second) Silenced: 2 Hz (2 double flashes per second) (alarm accepted)	
General:		
Voltage:	16-28vdc via Zener barrier or galvanic isolator	
Current:	25mA typical when powered from 24v supply via 28v 300 0 hm Zener barrier	
Ingress protection:	IP66	
Rating:	Continuous	
Housing material:	UL94V0 & 5VA FR ABS	
Housing colour:	RAL3000 Red	
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:	1.15kg/2.53lbs	
*SPL data +/-3dB(/	A). Measured at optimum voltage.	

Part Codes

S-A		

IS-A105N-R						
IS-L101L-R/[x]						
ATEX / IECEx / FM						
II 1G Ex ia IIC T4 Ga (-40°C <=Ta<= +60°C)						
IS Class I, Zone O, AEx ia IIC T4 Ta = +60°C						
IS Class I, Division 1, Groups A, B, C, D T4						
GOST-R						
0ExialICT4 IP65 -40° to +60°C						
[x]: LED colour R: Red, A: Amber, B: Blue, G: Gree	n					
May be powered from any certified Zener barrier or , galvanic isolator whose output parameters do not exceed :						
Uo : 28VDC	Po: 1.2W					

Tone	table				
S 1 T 1	Description 340 Hz Continuous	S 2 T 2	S 3 T 5	S 1 T 33	Description 745Hz @ 1Hz Intermittent
T 2	800/1000Hz @ 0.25 sec Alternating	T 17	T 5	T 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore
T 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	T 2	T 5	T 35	420Hz @ 0.625 sec Australian Alert
T 4	800/1000Hz @ 1Hz Sweeping	T 6	T 5	T 36	500-1200Hz 3.75sec /0.25sec. Australian Evac.
T 5	2 400Hz Continuous	T 3	T 20	T 37	1000Hz Continuous - PFEER Toxic Gas
T 6	2400/2900Hz@7HzSweeping	T 7	T 5	T 38	2 000Hz Continuous
T 7	2400/2900Hz @ 1Hz Sweeping	T 10	T 5	T 39	800Hz 0.25sec on, 1 sec off Intermittent
T 8	500/1200/500Hz @ 0.3Hz Sweeping	T 2	T 5	T 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001
T 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	T 15	T 2	T 41	Motor Siren - slow rise to 1200 Hz
T 10	2 400/2 900Hz @ 2 Hz Alternating	T 7	T 5	T 42	Motor Siren - slow rise to 800 Hz
T 11	1000Hz @ 1Hz Intermittent	T 2	T 5	T 43	1200 Hz Continuous
T 12	800/1000Hz @ 0.875Hz Alternating	T 4	T 5	T 44	Motor Siren - slow rise to 2 400 Hz
T 13	2 400Hz @ 1Hz Intermittent	T 15	T 5	T 45	1KHz 1s on, 1s off Intermittent - PFEER Gen
T 14	800Hz 0.25sec on, 1 sec off Intermittent	T 4	T 5	T 46	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.
T 15	800Hz Continuous	T 2	T 5	T 47	1KHz 1s on, 1s off Intermittent - PFEER Gen
T 16	660Hz 150mS on, 150mS off Intermittent	T 18	T 5	T 48	42 0Hz @ 0.625 sec Australian Alert
T 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	T 2	T 27	T 49	500-1200Hz 3.75sec /0.25sec. Australian Evac.
T 18	660Hz 1.8sec on, 1.8sec off Intermittent	T 2	T 5		
T 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265	T 2	T 5	-	
T 20	660Hz Continuous	T 2	T 5	-	
T 2 1	554Hz/440Hz @ 1Hz Alternating	T 2	T 5	-	
T 22	544Hz @ 0.875 sec. Intermittent	T 2	T 5	-	
T 23	800Hz @ 2 Hz Intermittent	T 6	T 5	-	
T 2 4	800/1000Hz @ 50Hz Sweeping	T 29	T 5	-	
T 25	2 400/2 900Hz @ 50Hz Sweeping	T 29	T 5	-	
T 26	Bell	T 2	T 15	_	
T 27	554Hz Continuous	T 26	T 5	_	
T 28	440Hz Continuous	T 2	T 5	_	
T 29	800/1000Hz @ 7Hz Sweeping	T 7	T 5	_	
T 30	300Hz Continuous	T 2	T 5	_	
T 31	660/1200Hz @ 1Hz Sweeping	T 26	T 5	_	

T 32 Two T chime.

S 2 S 3 T2 T5 T 38 T 45 T36 T5 T 35 T 5 T 45

T 9

T 2

T 2

T 2

T 34 T 45 T23 T17 T31 T27 T 2

T 5

T 5

T 5

T 5 T38 T34 T 47 T 37 T46 T37 T49 T5 T26 T37

T26 T15