

# IS-mC1 IS-minialert

The IS-mC1 is a compact combined 100dB(A) alarm sounder and L.E.D. beacon – only one Zener barrier or galvanic isolator required to run both sounder & beacon or alternatively the unit can be operated as individual signals.

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.

## Features

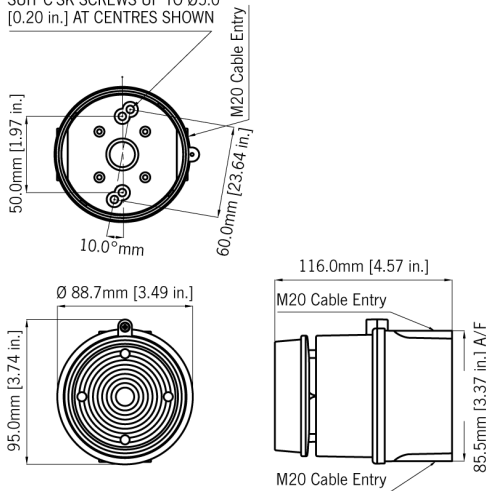
- Input overload and reverse current protection
- End of line resistor certified
- Auto synchronised sound output
- Prismatic lens optimises L.E.D effectiveness
- Available with custom tone configurations and frequencies

## Approvals

- ATEX certificate: SIRA 05ATEX2084X
- IECEx certificate: IECEx SIR 06.0045X
- FM approved
- GOST-R certificate: POCC GB.JB05.B03365



2 PAIRS OF MOUNTING HOLES TO SUIT C'SK SCREWS UP TO Ø5.0 [0.20 in.] AT CENTRES SHOWN



## Specification

Alarm sounder:

Nominal output: 100dB(A) @ 1m +/- 3dB - Tone 2\* [91dB(A) @ 10ft/3m]

No. of tones: 49 (UK00A/PFEER compliant)

No. of stages: 3

Volume control: Max. 100dB(A); Min. 90dB(A) - Tone 2

Effective range: 40m/131ft @ 1KHz

L.E.D. Beacon:

Light source: Array of 6 high intensity L.E.D's.

L.E.D. colours: Red, Amber, Blue, Green & Clear

Flash modes: Double flash at 2Hz and 1Hz

Effective intensity 23cd\* - measured ref. to I.E.S. cd:

General:

Voltage: 16-28Vdc via Zener barrier or galvanic isolator

Combined current: approx. 30mA typical when powered from 24V< supply via 28V 3000ohm Zener barrier.

Ingress protection: IP65

Rating: Continuous

Enclosure material: UL94V0 & 5VA FR ABS & PC

Enclosure colour: RAL3000 Red

Fixings: Stainless Steel

Cable entries: 2 x M20 clearance gland knockouts. Custom configurations also available.

MTBF: 141.63 years / 1,240,694 hours - MIL 217

Terminals: 0.5 to 2.5mm<sup>2</sup>

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]

## Part Codes

ISmC1-R/[y]

ATEX / IECEx / FM

II 1G Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +60°C)

IS Class I, Division 1, Groups A, B, C, D T4

IS Class I, Zone 0, AEx ia IIC T4 Ta = +60°C

GOST-R

0ExialICT4 IP65 -40° to +60°C

[y]: Lens colour: A: Amber

B: Blue

G: Green

R: Red

C: Clear (white LED)

Combined or Sounder only:

May be powered from any certified Zener barrier or galvanic isolator whose output parameters do not exceed :

Uo: 28Vdc Io: 93mA Po: 660mW

Beacon only:

May be powered from any certified Zener barrier or galvanic isolator whose output parameters do not exceed:

Uo: 28Vdc Io: 660mA Po: 1.2W

## Tone table

S 1	Description	S 2	S 3	S 1	Description	S 2	S 3
T 1	340 Hz Continuous	T 2	T 5	T 33	745Hz @ 1Hz Intermittent	T 2	T 5
T 2	800/1000Hz @ 0.25 sec Alternating	T 17	T 5	T 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore	T 38	T 45
T 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	T 2	T 5	T 35	420Hz @ 0.625 sec Australian Alert	T 36	T 5
T 4	800/1000Hz @ 1Hz Sweeping	T 6	T 5	T 36	500-1200Hz 3.75sec /0.25sec. Australian Evac.	T 35	T 5
T 5	2400Hz Continuous	T 3	T 20	T 37	1000Hz Continuous - PFEER Toxic Gas	T 9	T 45
T 6	2400/2900Hz @ 7Hz Sweeping	T 7	T 5	T 38	2000Hz Continuous	T 34	T 45
T 7	2400/2900Hz @ 1Hz Sweeping	T 10	T 5	T 39	800Hz 0.25sec on, 1 sec off Intermittent	T 23	T 17
T 8	500/1200/500Hz @ 0.3Hz Sweeping	T 2	T 5	T 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001	T 31	T 27
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 2	T 5
T 10	2400/2900Hz @ 2Hz Alternating	T 7	T 5	T 42	Motor Siren - slow rise to 800 Hz	T 2	T 5
T 11	1000Hz @ 1Hz Intermittent	T 2	T 5	T 43	1200 Hz Continuous	T 2	T 5
T 12	800/1000Hz @ 0.875Hz Alternating	T 4	T 5	T 44	Motor Siren - slow rise to 2400 Hz	T 2	T 5
T 13	2400Hz @ 1Hz Intermittent	T 15	T 5	T 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. ...	T 38	T 34
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 47	T 37
T 15	800Hz Continuous	T 2	T 5	T 47	1KHz 1s on, 1s off Intermittent - PFEER Gen. ...	T 46	T 37
T 16	660Hz 150mS on, 150mS off Intermittent	T 18	T 5	T 48	420Hz @ 0.625 sec Australian Alert	T 49	T 5
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 26	T 37
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 21	554Hz/440Hz @ 1Hz Alternating	T 2	T 5				
T 22	544Hz @ 0.875 sec. Intermittent	T 2	T 5				
T 23	800Hz @ 2Hz Intermittent	T 6	T 5				
T 24	800/1000Hz @ 50Hz Sweeping	T 29	T 5				
T 25	2400/2900Hz @ 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.	T 26	T 15				

## E2S Warning Signals

No liability is accepted for any consequence of the use of this document. The technical specification of this unit is subject to change without notice due to our policy of continual product development. All dimensions are approximate. This unit is sold subject to our standard conditions of sale, a copy of which is available on request.

6 Jan 2022