

LED Blinking Light/Sounder Combination

IS-Mini Serie IS-mC1



- Very economical visual and acoustic alarm
- certified for use in Ex-Zones 0, 1 and 2!
 - compact design with a diameter of just 88 mm
 - alarm operated via certified zener barriers or galvanic isolators
 - 49 loud tones at 100 dB (A); super-bright LEDs in red, green, blue and yellow/amber for all applications
 - volume control
 - can be operated as combination unit or separately
 - very well suited for fire alarm systems and direct control due to low power consumption
 - self-synchronising sounder for clear tone perception
 - 2 different externally controllable tones

See pages 234 and 235 for suitable zener barriers

max. covering distance

Protection system

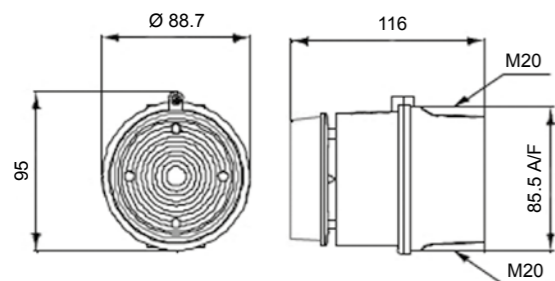
Operating temperature

Electrical data	IS-mC1
Rated voltage	24 V DC
Operating range	16 – 28 V
Nominal current consumption	48 mA (typical for connection to 24 V DC via 28 V / 300 Ω zener barrier)

Power must be connected via a zener barrier (max. 28 V DC, 93 mA DC, 0.66 W) or a galvanic isolator, specified by the system certificate (see page 235)

Mechanical data	IS-mC1
Type of protection	"ia" inherently safe
Explosion protection	II 1G Ex ia IIC T4 - 40 °C ... + 60 °C Ta
Category (area of use)	1G (Zone 0) / 2G (Zone 1) / 3G (Zone 2)
Certificate / Testing body	SIRA 05 ATEX2084 X / SIRA
Sound pressure level	100 dB (A)
Sound level reduction	by - 20 dB
Flash rate	can be set to 2 Hz or 1 Hz
Lens colour	clear, with red, yellow/amber, blue or green LEDs
Storage temperature	- 40 °C ... + 70 °C
Relative humidity	90%
Protection system according to EN 60529	IP 65
Duty cycle	100%
Material	housing: ABS, self-extinguishing UL94VO & 5VA, similar to RAL 3000 (flame red) lens: polycarbonate (PC)
Connecting terminals	0.5 – 2.5 mm ²
Cable entry	2 x M20 (knock-outs prepared)
Weight	280 g

Dimensions



Tone table							
Tone	Description - Frequency	Stage 2	Stage 3	Tone	Description - Frequency	Stage 2	Stage 3
1	Continuous tone	340 Hz		25	Sweeping	2900 Hz	29
2	Alternating tone, UK BS5839-1 (fire alarm, railway crossing)	1000 Hz, 800 Hz	0.25 s	17	5	1480 Hz	2
3	Slow whoop, evacuation alarm Netherlands NEN 2575	1200 Hz, 500 Hz	3.5 s, 0.5 s	2	5	1480 Hz	15
4	Sweeping (fast)	1000 Hz, 800 Hz	10 ms	6	5	800 Hz	26
5	Continuous tone	2400 Hz		3	20	440 Hz	5
6	Sweeping	2900 Hz, 2400 Hz	70 ms	7	5	1000 Hz, 800 Hz	7
7	Sweeping (fast)	2900 Hz, 2400 Hz	10 ms	10	5	1000 Hz, 800 Hz	5
8	Sweeping	1200 Hz, 500 Hz	3 s	2	5	300 Hz	2
9	Sawtooth, DIN tone 33404-3 Germany (emergency signal), PFEER PTAP	1200 Hz, 500 Hz	1 s	15	2	1200 Hz, 660 Hz	26
10	Alternating tone	2900 Hz, 2400 Hz	20 ms	7	5	300 Hz	5
11	Interrupted tone	1000 Hz	10 ms	2	5	1200 Hz, 660 Hz	26
12	Alternating tone	1000 Hz, 800 Hz	0.875 s	4	5	300 Hz	5
13	Interrupted tone	2400 Hz	10 ms	15	5	1200 Hz, 660 Hz	26
14	Interrupted tone	800 Hz	0.25 s	4	5	300 Hz	5
15	Continuous tone	800 Hz		2	5	745 Hz	2
16	Interrupted tone	660 Hz	150 ms	18	5	2000 Hz, 1000 Hz	38
17	Alternating tone, France NFS 32-001 (fire alarm)	554 Hz, 440 Hz	0.4 s	2	27	2000 Hz, 1000 Hz	45
18	Interrupted tone, Sweden SS031711 (air raid warning)	660 Hz	1.8 s	2	5	420 Hz	36
19	Sweeping, France NFC48-265	1600 Hz, 1400 Hz	1 s, 0.5 s	2	5	1200 Hz, 500 Hz	35
20	Continuous tone, Sweden SS031711 (all-clear signal)	660 Hz		2	5	1000 Hz	9
21	Alternating tone	554 Hz, 440 Hz	10 ms	2	5	2000 Hz	34
22	Interrupted tone	544 Hz	0.875 s	2	5	800 Hz	23
23	Interrupted tone	800 Hz	20 ms	6	5	800 Hz	17
24	Sweeping (medium), UK BS5839-1	1000 Hz, 800 Hz	0.5 s	29	5	745 Hz	5
25	Sweeping	2900 Hz, 2400 Hz	0.5 s	29	5	745 Hz	5
26	Simulated bell	1480 Hz	0.69 ms	2	15	745 Hz	5
27	Continuous tone	800 Hz		26	5	745 Hz	5
28	Continuous tone	440 Hz		2	5	745 Hz	5
29	Sweeping (fast), UK BS5839-1	1000 Hz, 800 Hz	70 ms	7	5	745 Hz	5
30	Continuous tone	300 Hz		2	5	745 Hz	5
31	Sweeping	1200 Hz, 660 Hz	10 ms	26	5	745 Hz	5
32	2-tone bell sound			26	15	745 Hz	5
33	Interrupted tone	745 Hz	10 ms	2	5	745 Hz	5
34	Alternating tone, Singapore	2000 Hz, 1000 Hz	0.5 s	38	45	745 Hz	5
35	Interrupted tone – Australian alert	420 Hz	0.625 s	36	5	745 Hz	5
36	Sweeping, IMO 3d, Germany KTA3901 evacuation alarm	1200 Hz, 500 Hz	1 s	35	5	745 Hz	5
37	Continuous tone	1000 Hz		9	45	745 Hz	5
38	Continuous tone	2000 Hz		34	45	745 Hz	5
39	Interrupted tone	800 Hz	0.25 s	23	17	745 Hz	5
40	Alternating tone, France NFS 32-001 (fire alarm)	554 Hz, 440 Hz	0.4 s	31	27	745 Hz	5
41	Motor siren	1200 Hz	const.	2	5	745 Hz	5
42	Motor siren	800 Hz	const.	2	5	745 Hz	5
43	Continuous tone, PFEER gasalarm	1200 Hz		2	5	745 Hz	5
44	Motor siren	2400 Hz	const.	2	5	745 Hz	5
45	Interrupted tone, PFEER (general alarm)	1000 Hz	1 s	38	34	745 Hz	5
46	Sawtooth, DIN tone 33404-3 Germany (emergency signal), PFEER PTAP	1200 Hz, 500 Hz	1 s	47	37	745 Hz	5
47	Interrupted tone, PFEER (general alarm)	1000 Hz	1 s	46	37	745 Hz	5
48	Interrupted tone, Australia AS2220, AS1610, AS1670	420 Hz	0.625 s	49	5	745 Hz	5
49	Sweeping, IMO 3d, Germany KTA3901 evacuation alarm	1200 Hz, 500 Hz	1 s	26	37	745 Hz	5

Ordering details

Article numbers		IS-mC1
Colour LED	Rated voltage	24 V DC
yellow/amber		320 35 80 4 000
red		320 35 80 5 000
green		320 35 80 6 000
blue		320 35 80 7 000