

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

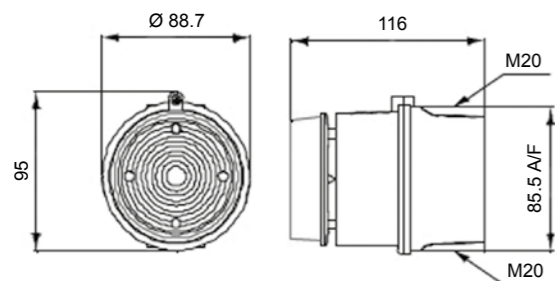
Operating temperature

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

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	