

# IS-MINI LED BLINKING SOUNDER

## IS-mC1



IP 65

protection  
system

+60 °C  
-40 °C

operating  
temperature

- 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 102 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.

| PRODUCT                        |         | IS-mC1                                                                                                                                                |
|--------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| DATA                           |         |                                                                                                                                                       |
| Operating range                |         | 16–28 V DC                                                                                                                                            |
| Nominal current consumption    |         | 48 mA (typical for connection to 24 V DC via 28 V / 300 Ω zener barrier)                                                                              |
| 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           |         | 102 dB(A)                                                                                                                                             |
| Sound pressure level @DIN-tone |         | 98 dB(A)                                                                                                                                              |
| Sound level reduction          |         | by –20 dB                                                                                                                                             |
| Flash rate                     |         | can be set to 2 Hz or 1 Hz                                                                                                                            |
| Light source                   |         | LED <span style="color: yellow;">●</span> <span style="color: red;">●</span> <span style="color: green;">●</span> <span style="color: blue;">●</span> |
| Light intensity                |         | 7 cd                                                                                                                                                  |
| Storage temperature            |         | –40 °C ... +70 °C                                                                                                                                     |
| Relative humidity              |         | 90 %                                                                                                                                                  |
| Protection system (EN 60529)   |         | IP 65                                                                                                                                                 |
| Duty cycle                     |         | 100%                                                                                                                                                  |
| Material                       | housing | ABS, self-extinguishing UL94V0 & 5VA, similar to RAL 3000 (flame red)                                                                                 |
|                                | lens    | polycarbonate (PC)                                                                                                                                    |
| Connecting terminals           |         | 0.5–2.5 mm <sup>2</sup>                                                                                                                               |
| Cable entry                    |         | 2x M20 (knock-outs prepared)                                                                                                                          |
| Weight                         |         | 280 g                                                                                                                                                 |

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.

ABMESSUNGEN

ANSCHLUSSBILD

## TONE TABLE

| NO. | DESCRIPTION – FREQUENCY                                          |                    | STAGE |    | NO. | DESCRIPTION – FREQUENCY |                                                      | STAGE              |    |
|-----|------------------------------------------------------------------|--------------------|-------|----|-----|-------------------------|------------------------------------------------------|--------------------|----|
|     |                                                                  |                    | 2     | 3  |     |                         |                                                      | 2                  | 3  |
| 1   | Continuous tone                                                  | 340 Hz             |       | 2  | 5   | 25                      | Sweeping                                             | 2900 Hz            | 29 |
| 2   | Alternating tone, UK BS5839-1 (fire alarm, railway crossing)     | 1000 Hz<br>800 Hz  |       | 17 | 5   | 26                      | Simulated bell                                       | 1450 Hz            | 2  |
| 3   | Slow whoop, evacuation alarm Netherlands NEN 2575                | 1200 Hz<br>500 Hz  |       | 2  | 5   | 27                      | Continuous tone                                      | 800 Hz             | 26 |
| 4   | Sweeping (fast)                                                  | 1000 Hz<br>800 Hz  |       | 6  | 5   | 28                      | Continuous tone                                      | 440 Hz             | 2  |
| 5   | Continuous tone                                                  | 2400 Hz            |       | 3  | 20  | 29                      | Sweeping (fast), UK BS5839-1                         | 1000 Hz<br>800 Hz  | 7  |
| 6   | Sweeping                                                         | 2900 Hz<br>2400 Hz |       | 7  | 5   | 30                      | Continuous tone                                      | 300 Hz             | 2  |
| 7   | Sweeping (fast)                                                  | 2900 Hz<br>2400 Hz |       | 10 | 5   | 31                      | Sweeping                                             | 1200 Hz<br>660 Hz  | 26 |
| 8   | Sweeping                                                         | 1200 Hz<br>500 Hz  |       | 2  | 5   | 32                      | 2-tone bell sound                                    | 800 Hz<br>650 Hz   | 26 |
| 9   | Sawtooth, DIN-Ton 33404-3 Germany (emergency signal), PFEER PTAP | 1200 Hz<br>500 Hz  |       | 15 | 2   | 33                      | Interrupted tone                                     | 745 Hz             | 2  |
| 10  | Alternating tone                                                 | 2900 Hz<br>2400 Hz |       | 7  | 5   | 34                      | Alternating tone, Singapore                          | 2000 Hz<br>1000 Hz | 38 |
| 11  | Interrupted tone                                                 | 1000 Hz            |       | 2  | 5   | 35                      | Interrupted tone, Australian alert                   | 420 Hz             | 35 |
| 12  | Alternating tone                                                 | 1000 Hz<br>800 Hz  |       | 4  | 5   | 36                      | Sweeping, IMO 3d, Germany KTA3901 evacuation alarm   | 1200 Hz<br>500 Hz  | 35 |
| 13  | Interrupted tone                                                 | 2400 Hz            |       | 15 | 5   | 37                      | Continuous tone                                      | 1000 Hz            | 9  |
| 14  | Interrupted tone                                                 | 800 Hz             |       | 4  | 5   | 38                      | Continuous tone                                      | 2000 Hz            | 34 |
| 15  | Continuous tone                                                  | 800 Hz             |       | 2  | 5   | 39                      | Interrupted tone                                     | 800 Hz             | 23 |
| 16  | Interrupted tone                                                 | 660 Hz             |       | 18 | 5   | 40                      | Alternating tone, France NFS 32-001 (fire alarm)     | 554 Hz<br>440 Hz   | 31 |
| 17  | Alternating tone, France NFS 32-001 (fire alarm)                 | 554 Hz<br>440 Hz   |       | 2  | 27  | 41                      | Motor siren                                          | 1200 Hz            | 2  |
| 18  | Interrupted tone, Sweden SS031711 (air raid warning)             | 660 Hz             |       | 2  | 5   | 42                      | Motor siren                                          | 800 Hz             | 2  |
| 19  | Sweeping, France NFC48-265                                       | 1600 Hz<br>1400 Hz |       | 2  | 5   | 43                      | Continuous tone, PFEER gas alarm                     | 1200 Hz            | 2  |
| 20  | Continuous tone, Sweden SS031711 (all-clear signal)              | 660 Hz             |       | 2  | 5   | 44                      | Motor siren                                          | 2400 Hz            | 2  |
| 21  | Alternating tone                                                 | 554 Hz<br>440 Hz   |       | 2  | 5   | 45                      | Interrupted tone, PFEER (general alarm)              | 1000 Hz            | 38 |
| 22  | Interrupted tone                                                 | 554 Hz             |       | 2  | 5   | 46                      | Sawtooth, DIN-Ton 33404-3 Germany (emergency signal) | 1200 Hz<br>500 Hz  | 47 |
| 23  | Interrupted tone                                                 | 800 Hz             |       | 6  | 5   | 47                      | Interrupted tone, PFEER (general alarm)              | 1000 Hz            | 46 |
| 24  | Sweeping (medium), UK BS5839-1                                   | 1000 Hz<br>800 Hz  |       | 29 | 5   | 48                      | Interrupted tone, Australia AS2220, AS1610, AS1670   | 420 Hz             | 49 |
|     |                                                                  |                    |       |    |     | 49                      | Sweeping, IMO 3d, Germany KTA3901 evacuation alarm   | 1200 Hz<br>500 Hz  | 26 |

| ARTICLE NO. | IS-mC1      |
|-------------|-------------|
| LED colour  | 24 V DC     |
|             | 32035804000 |
|             | 32035805000 |
|             | 32035806000 |
|             | 32035807000 |