IS-MINI SOUNDER 102 dB(A)
IS-mA1



Very economical acoustic alarm.

- Certified for use in Ex-Zones 0, 1 and 2!
- Compact design with a diameter of just 88 m.
- Sounder operated via certified zener barriers or galvanic isolators.
- 49 loud tones at 102 dB(A).
- 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.
- Volume control.
- Also available as mining-certified device (IM1 EEx ia).

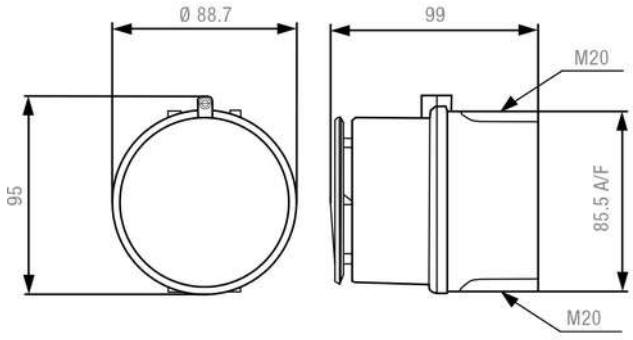
IP 65
protection system

+60 °C
–40 °C
operating temperature

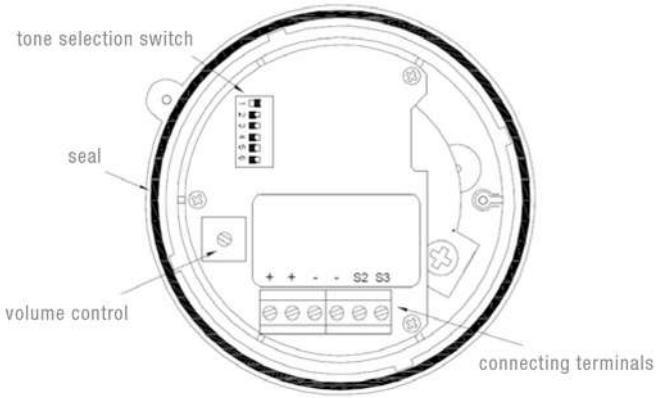
PRODUCT	IS-mA1
DATA	
Rated voltage	24 V DC
Operating range	16–28 V
Nominal current consumption	25 mA (typical for connection to 24 V DC via 28 V / 300 Ω zener barrier)
Type of protection	"ia" inherently safe
Explosion protection	II 1G EEx ia IIC T4 –40 °C ... +60 °C Ta
Category (area of use)	1G (Zone 0) / 2G (Zone 1) / 3G (Zone 2)
Certificate of conformity	SIRA 05 ATEX2084 X
Testing body	SIRA
Sound pressure level	102 dB(A)
Sound pressure level @DIN-tone	98 dB(A)
Sound level reduction	by –20 dB
Storage temperature	–40 °C ... +70 °C
Relative humidity	90 %
Protection system (EN 60529)	IP 65
Duty cycle	100 %
Material	ABS, self-extinguishing UL94V0 & 5VA, similar to RAL 3000 (flame red)
Connecting terminals	0.5–2.5 mm2
Cable entry	2x M20 (knock-outs prepared)
Weight	230 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.

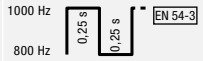
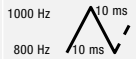
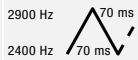
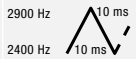
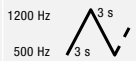
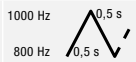
DIMENSIONS

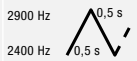
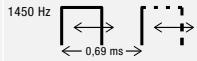
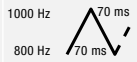
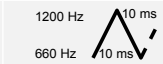
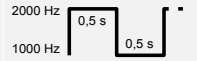
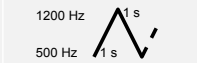


CONNECTION DIAGRAM



TONE TABLE

NO.	DESCRIPTION – FREQUENCY		STAGE 2	STAGE 3
1	Continuous tone		2	5
2	Alternating tone, UK BS5839-1 (fire alarm, railway crossing)		17	5
3	Slow whoop, evacuation alarm Netherlands NEN 2575		2	5
4	Sweeping (fast)		6	5
5	Continuous tone		3	20
6	Sweeping		7	5
7	Sweeping (fast)		10	5
8	Sweeping		2	5
9	Sawtooth, DIN-Ton 33404-3 Germany (emergency signal), PFEER PTAP		15	2
10	Alternating tone		7	5
11	Interrupted tone		2	5
12	Alternating tone		4	5
13	Interrupted tone		15	5
14	Interrupted tone		4	5
15	Continuous tone		2	5
16	Interrupted tone		18	5
17	Alternating tone, France NFS 32-001 (fire alarm)		2	27
18	Interrupted tone, Sweden SS031711 (air raid warning)		2	5
19	Sweeping, France NFC48-265		2	5
20	Continuous tone, Sweden SS031711 (all-clear signal)		2	5
21	Alternating tone		2	5
22	Interrupted tone		2	5
23	Interrupted tone		6	5
24	Sweeping (medium), UK BS5839-1		29	5

NO.	DESCRIPTION – FREQUENCY		STAGE 2	STAGE 3
25	Sweeping		29	5
26	Simulated bell		2	15
27	Continuous tone		26	5
28	Continuous tone		2	5
29	Sweeping (fast), UK BS5839-1		7	5
30	Continuous tone		2	5
31	Sweeping		26	5
32	2-tone bell sound		26	15
33	Interrupted tone		2	5
34	Alternating tone, Singapore		38	45
35	Interrupted tone, Australian alert		35	5
36	Sweeping, IMO 3d, Germany KTA3901 evacuation alarm		35	3
37	Continuous tone		9	45
38	Continuous tone		34	45
39	Interrupted tone		23	17
40	Alternating tone, France NFS 32-001 (fire alarm)		31	27
41	Motor siren		2	5
42	Motor siren		2	5
43	Continuous tone, PFEER gas alarm		2	5
44	Motor siren		2	5
45	Interrupted tone, PFEER (general alarm)		38	34
46	Sawtooth, DIN-Ton 33404-3 Germany (emergency signal)		47	37
47	Interrupted tone, PFEER (general alarm)		46	37
48	Interrupted tone, Australia AS2220, AS1610, AS1670		49	5
49	Sweeping, IMO 3d, Germany KTA3901 evacuation alarm		26	37

ARTICLE NO.	IS-mA1
Rated voltage	24 V DC
	32034800000