SOUNDER 103 dB(A)
IS-A105N



These sounders are used in workplaces where dangerous, explosive atmospheres are to be expected.

- Free selection of 49 different tones UKOOA/PFEER conform.
- High sound pressure level of 103 dB (A), can be reduced by up to 15 dB(A) via a potentiometer.
- Up to 2 tones can be selected externally in order to signal different alarms.
- Works on DC voltages between 10 and 28 V DC, rated voltage 24 V DC.
- Can also be used outdoors thanks to housing made of self-extinguishing ABS and IP 66 protection system.
- Categories 1G, 2G and 3G (Zones 0, 1 and 2).

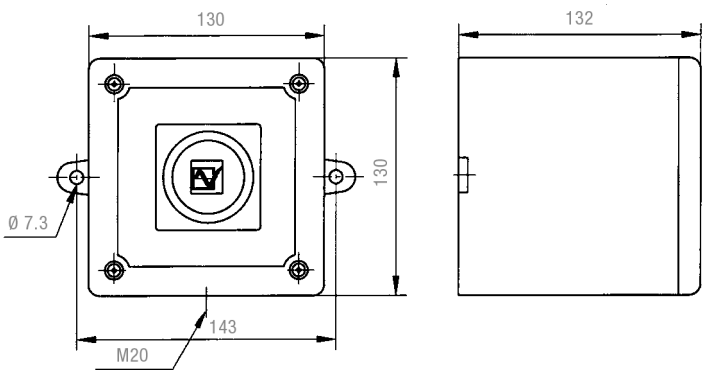
IP 66
protection system

+60 °C
–40 °C
operating temperature

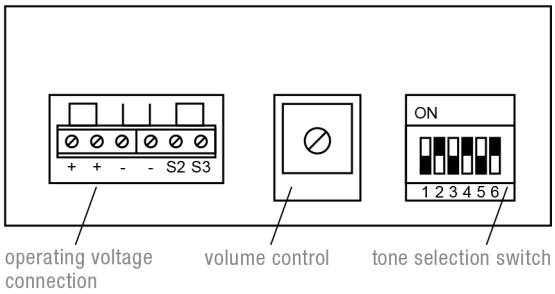
PRODUCT	IS-A105N
DATA	
Rated voltage	24 V DC
Operating range	10–28 V
Nominal current consumption	25 mA (typical for connection to 24 V DC via 28 V / 300 Ω zener barrier)
Type of protection	"ia" inherently safe
Explosion protection	II 1G Ex ia IIC T4 –40 °C ... +60 °C Ta
Category (area of use)	1G (Zone 0) / 2G (Zone 1) / 3G (Zone 2)
Certificate of conformity	SIRA 04 ATEX 2301 X
Testing body	SIRA
Sound pressure level	up to 103 dB(A) ±3 dB(A), can be reduced by up to 15 dB(A)
Sound pressure level @DIN-tone	up to 100 dB(A) ±3 dB(A), can be reduced by up to 15 dB(A)
Alarm tones	49 – can be set via DIP switch, of which 2 tones are externally selectable
Storage temperature	–40 °C ... +70 °C
Relative humidity	90 % @ +50 °C
Duty cycle	100 %
Material	ABS self-extinguishing, similar to UL 94 V0
Colour	similar to RAL 3000 (flame red), optionally grey RAL 7038 or white RAL 9010
Connecting terminals	0.5–2.5 mm2
Cable entry	20 mm
Weight	0.75 kg

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.

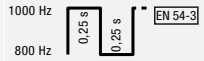
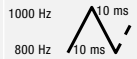
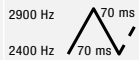
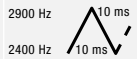
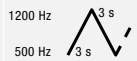
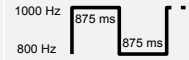
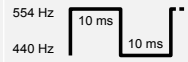
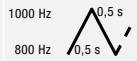
DIMENSIONS

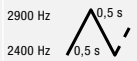
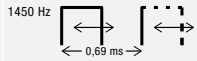
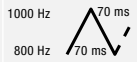
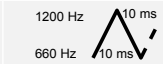
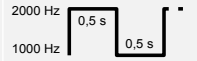
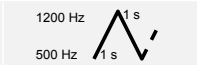


CONNECTION DIAGRAM



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-A105N
24 V DC	32033800000

MANUFACTURER'S DECLARATION

Developed and manufactured in accordance with EN 50014 (general requirements), EN 50020 (intrinsically safety), EMC Directive 89/336/EEC.