

SOUNDER 105 dB(A)
IS-A105N



protection
system



operating
temperature



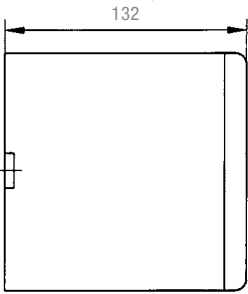
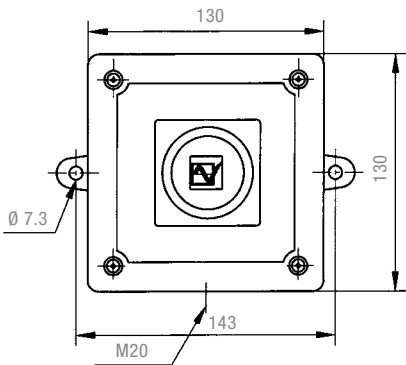
These sounders are used in workplaces where dangerous, explosive atmospheres are to be expected.

- Free selection of 49 different tones UK00A/PFEER conform.
- High sound pressure level of 105 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).

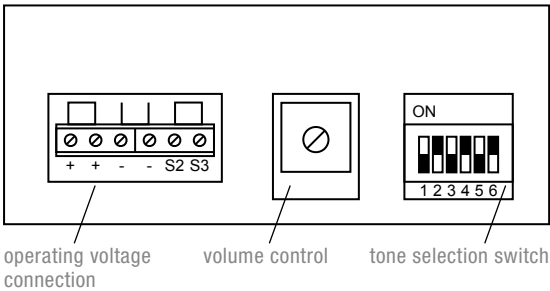
PRODUCT	IS-A105N
Rated voltage	24 V DC
Operating range	10–28 V
Nominal current consumption	25 mA (typical for connection to 24 V DC via 28 V / 300 Ω zener barrier)
Type of protection	“ia” inherently safe
Explosion protection	II 1G Ex ia IIC T4 –40 °C ... +60 °C Ta
Category (area of use)	1G (Zone 0) / 2G (Zone 1) / 3G (Zone 2)
Certificate of conformity	SIRA 04 ATEX 2301 X
Testing body	SIRA
Sound pressure level	up to 105 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 mm ²
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.

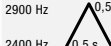
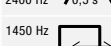
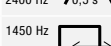
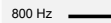
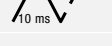
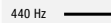
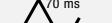
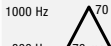
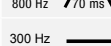
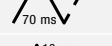
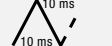
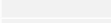
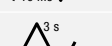
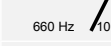
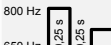
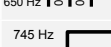
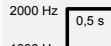
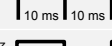
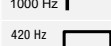
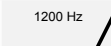
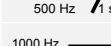
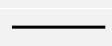
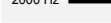
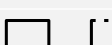
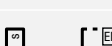
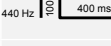
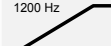
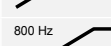
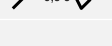
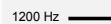
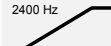
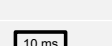
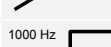
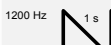
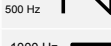
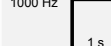
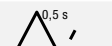
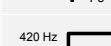
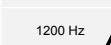
DIMENSIONS



CONNECTION DIAGRAM



TONE TABLE

NO.	DESCRIPTION – FREQUENCY		STAGE		NO.	DESCRIPTION – FREQUENCY		STAGE	
			2	3				2	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	1450 Hz  0,69 ms	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	800 Hz  650 Hz 	26	15
9	Sawtooth, DIN-Ton 33404-3 Germany (emergency signal), PFEER PTAP	1200 Hz  500 Hz 	15	2	33	Interrupted tone	745 Hz  10 ms	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  10 ms	2	5	35	Interrupted tone, Australian alert	420 Hz  0,625 s	35	5
12	Alternating tone	1000 Hz  800 Hz 	4	5	36	Sweeping, IMO 3d, Germany KTA3901 evacuation alarm	1200 Hz  500 Hz 	35	3
13	Interrupted tone	2400 Hz  10 ms	15	5	37	Continuous tone	1000 Hz 	9	45
14	Interrupted tone	800 Hz  0,25 s	4	5	38	Continuous tone	2000 Hz 	34	45
15	Continuous tone	800 Hz 	2	5	39	Interrupted tone	800 Hz  0,25 s	23	17
16	Interrupted tone	660 Hz  150 ms	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  const.	2	5
18	Interrupted tone, Sweden SS031711 (air raid warning)	660 Hz  1,8 s	2	5	42	Motor siren	800 Hz  const.	2	5
19	Sweeping, France NFC48-265	1600 Hz  1400 Hz 	2	5	43	Continuous tone, PFEER gas alarm	1200 Hz 	2	5
20	Continuous tone, Sweden SS031711 (all-clear signal)	660 Hz 	2	5	44	Motor siren	2400 Hz  const.	2	5
21	Alternating tone	554 Hz  440 Hz 	2	5	45	Interrupted tone, PFEER (general alarm)	1000 Hz  1 s	38	34
22	Interrupted tone	554 Hz  0,875 s	2	5	46	Sawtooth, DIN-Ton 33404-3 Germany (emergency signal)	1200 Hz  500 Hz 	47	37
23	Interrupted tone	800 Hz  20 ms	6	5	47	Interrupted tone, PFEER (general alarm)	1000 Hz  1 s	46	37
24	Sweeping (medium), UK BS5839-1	1000 Hz  800 Hz 	29	5	48	Interrupted tone, Australia AS2220, AS1610, AS1670	420 Hz  625 ms	49	5
					49	Sweeping, IMO 3d, Germany KTA3901 evacuation alarm	1200 Hz  500 Hz 	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.