

# Ex-Proof Electronic Multi Tone Siren dMS



II 2 G Ex d e IIB+H2 T6 Gb  
 II 2 D Ex tb IIIC T85° C Db  
 -55 °C ≤ Ta ≤ +60°C  
 Zone 1, 2, 21, 22

## Features

- ▶ Loud electronic multi tone siren for warning and audible signalling
- ▶ For use in explosion endangered areas zones 1, 2, 21 and 22
- ▶ Flame-proof robust housing made of copper-free seawater resistant aluminium
- ▶ Sound guide made of impact resistant polyamide
- ▶ 32 signal tones, 2 different tones switchable/addressable (2-stage alarm)
- ▶ Volume max. 115 dB (A) in 1 m – volume adjustable/reducible in 3 steps each by 10 dB
- ▶ High protection class IP66
- ▶ Terminal compartment made in protection class increased safety „e“



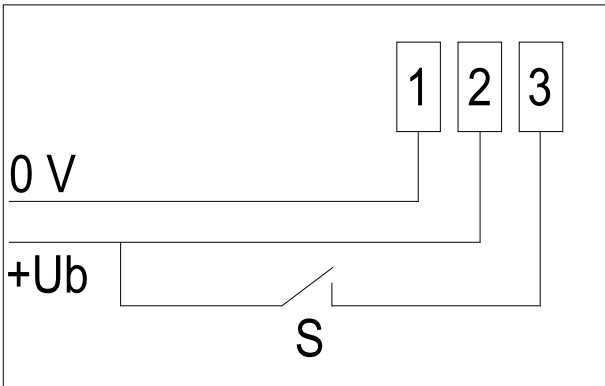
## Technical data

Type	dMS
Housing, colour	copper-free seawater resistant aluminium, yellow/blue sound guide polyamide, black
Terminals	≤ 2,5 mm <sup>2</sup>
Cable entry	cable gland M20 x 1,5 (5,5-13 mm)
Protection class	IP66
Insulation class	I
Sound pressure	max. 115 dB (A) in 1 m reducible in 3 steps by each 10 dB
Signal tones	32
Tone selection	by DIP switch
Nominal current	93-460 mA according to model
Power consumption	max. 14 W
Duty cycle factor	continuous operation
Weight	2,8 kg
Approval	PTB 14 ATEX 1005

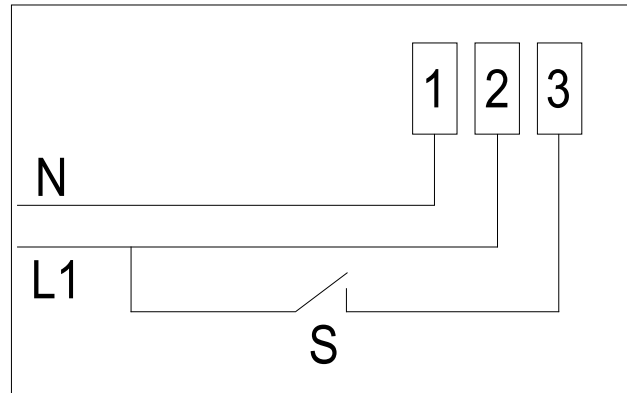


**Switching of signal stages**

Multi tone siren for DC voltage



Multi tone siren for AC voltage

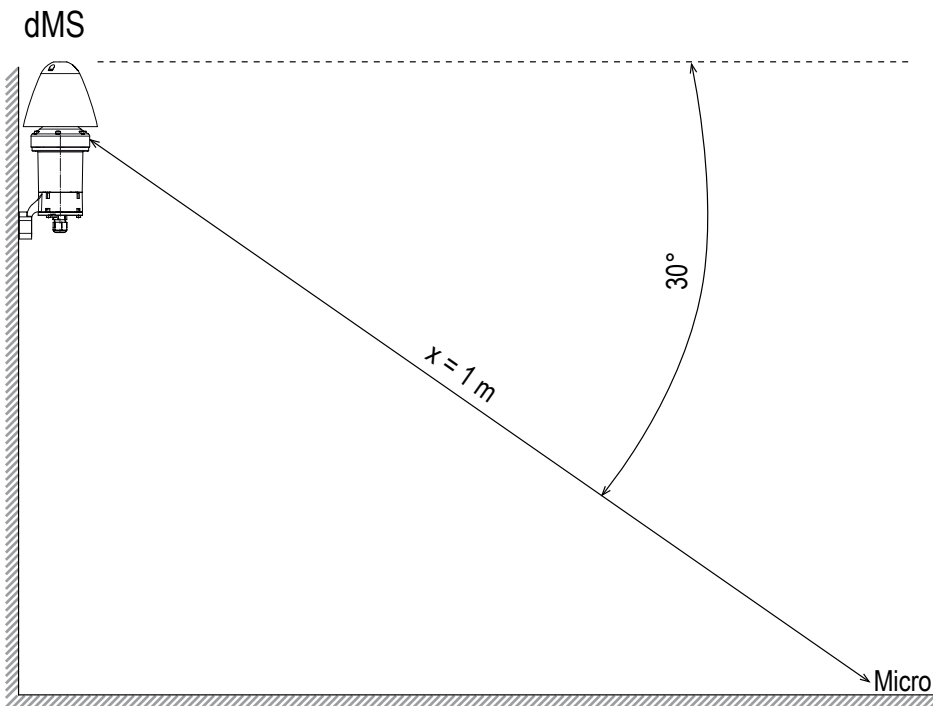


Terminals in terminal compartment

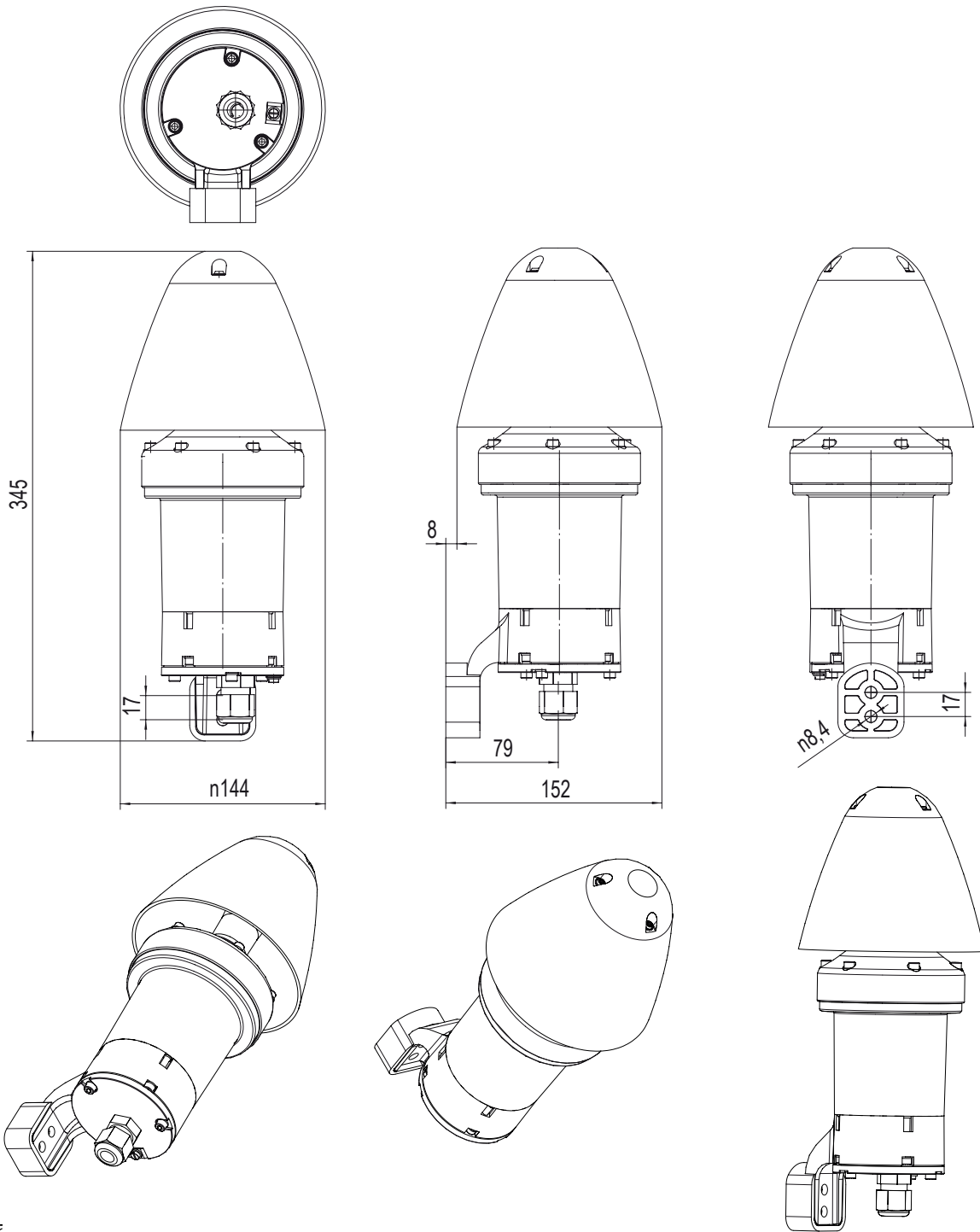
External switching

- 1. Stage/tone: switch S open
- 2. Stage/tone: switch S closed

**Sound pressure measuring**



# Ex-Proof Electronic Multi Tone Siren dMS



## Order data

Type	Denomination	Nominal/operating Voltage (V)	Nominal current (A)	Order No.
dMS1	Ex-proof electronic multi tone siren	85-265 V AC	0,093	371 000 313
dMS2	Ex-proof electronic multi tone siren	24 V DC	0,460	371 000 005



## Accessory

Type	Denomination	Order No.
MK-dMS	Mounting kit for vibration applications	371 000 900

Tone table					
No.	DIP switch	Tone type/description	Vol. dB (A)	Current consumption mA	
				230 V	24 V
0		Continuous 440 Hz	100	82	456
1		Continuous 554 Hz	106	80	425
2		Continuous 660 Hz	107	80	428
3		Continuous 800 Hz	107	81	412
4		Continuous 1000 Hz	97	73	328
5		Continuous 2400 Hz	110	77	380
6		Intermittent 420 Hz @ 0,800 Hz, (0,625 s on   0,625 s off)	101	86	460
7		Intermittent 554 Hz @ 0,875 Hz, (0,571 s on   0,571 s off)	105	80	452
8		Intermittent 660 Hz @ 3,333 Hz, (0,150 s on   0,150 s off)	107	82	400
9		Intermittent 660 Hz @ 0,278 Hz, (1,800 s on   1,800 s off)	108	82	425
10		Intermittent 800 Hz @ 0,800 Hz, (0,250 s on   0,250 s off)	107	82	408
11		Intermittent 800 Hz @ 2,000 Hz, (0,250 s on   0,250 s off)	107	83	408
12		Intermittent 1000 Hz @ 0,500 Hz, (1,000 s on   1,000 s off)	97	76	328
13		Intermittent 1000 Hz @ 1,000 Hz, (0,500 s on   0,500 s off)	98	76	328
14		Intermittent 2400 Hz @ 1,000 Hz, (0,500 s on   0,500 s off)	110	81	380
15		Alternating 554/440 Hz @ 1,000 Hz, (0,500 s f1   0,500 s f2)	105	90	448
16		Alternating 554/440 Hz @ 2,000 Hz, (0,100 s f1   0,400 s f2)	103	92	450
17		Alternating 800/1000 Hz @ 4,000 Hz, (0,125 s f1   0,125 s f2)	106	84	396
18		Alternating 800/1000 Hz @ 0,875 Hz, (0,571 s f1   0,571 s f2)	107	87	408
19		Alternating 2400/2900 Hz @ 2,000 Hz, (0,250 s f1   0,250 s f2)	109	83	392
20		Sweeping 500/1200 Hz @ 0,300 Hz (1,667 s rise   1,667 s fall)	107	87	452
21		Sweeping 800/1000 Hz @ 1,000 Hz (1,500 s rise   1,500 s fall)	106	84	396
22		Sweeping 800/1000 Hz @ 7,000 Hz (0,071 s rise   0,071 s fall)	104	83	388
23		Sweeping 800/1000 Hz @ 50,00 Hz (0,010 s rise   0,010 s fall)	103	82	384
24		Sweeping 1200/500 Hz @ 1,000 Hz (1,000 s fall   0,000 s rise)	106	86	436
25		Sweeping 1400/1600 Hz @ 0,667 Hz (1,000 s rise   0,500 s fall)	115	86	408
26		Sweeping 2400/2900 Hz @ 1,000 Hz (0,500 s rise   0,500 s fall)	109	80	396
27		Sweeping 2400/2900 Hz @ 7,000 Hz (0,071 s rise   0,071 s fall)	107	80	388
28		Sweeping 2400/2900 Hz @ 50,00 Hz (0,010 s rise   0,010 s fall)	106	81	388
29		Slow Whoop 500/1200 Hz @ 0,300 Hz (2,833 s rise   0,000 s fall   0,500 s off)	108	88	448
30		Slow Whoop 500/1200 Hz @ 0,267 Hz (2,833 s rise   0,000 s fall   0,250 s off)	108	86	444
31		Siren 830 Hz (4,720 s rise   48,96 s hold   4,725 fall   10,00 s off)	107	75	328

	0	Maximale volume
	1	Attenuated volume -10 dB (A)
	2	Attenuated volume -20 dB (A)
	3	Attenuated volume -30 dB (A)

	1 2 3 4 5 6 7 8 9 10 11 12
	S0 Sound
	S1 Sound
	Vol

