

SOUNDER 117 dB(A) BExS 120 d/e | BExDS 120 d/e



- 32 different tones can be set; UK00A/PFEER conform.
- 110/117 dB(A) ± 3 dB(A) sound pressure.
- 3 externally selectable tones – positive and negative control possible in the case of DC devices.
- Quartz-stabilised tone synchronisation.
- Adjustable volume (except 12 V DC).
- ATEX and optionally IECEx approval.
- Housing made of die-cast aluminium LM6, horn made of ABS.
- Stainless steel mounting bracket for 360° positioning.
- Categories 2G and 3G (Zones 1 and 2).
- Also available as categories 2D & 3D (Zones 21 & 22) for dust zones.
- Amendment 2; extended approval/temperature range +70 °C.

IP 66
IP 67

protection
system

+70 °C
-50 °C

operating
temperature

EN
54-3

Exd
24 V DC

VdS
G209081

Exd
24 V DC

EAC

PRODUCT	BExS 120 d/e / BExDS 120 d/e				
Rated voltage	230 V	115 V	48 V	24 V	12 V
	AC 50 60 Hz		DC		
Operating range	±10 %		±25 %		
Nominal current consumption	90 mA	180 mA	420 mA	800 mA	850 mA
PRODUCT	BExS 120 d/e		BExDS 120 d/e		
Protection system	“d” = IP 67; or “e” = IP 66				
Explosion protection	II 2G Ex d IIC T4 / II 2G Ex de IIC T4 II 2G Ex d IIB T4 / II 2G Ex de IIB T4		II 2G/D Ex d IIC T4 100°C / II 2G/D Ex de IIC T4 100°C II 2G/D Ex d IIB T4 115°C / II 2G/D Ex de IIB T4 115°C		
Category (area of use)	2G (Zone 1) 3G (Zone 2)		2G (Zone 1) / 2D (Zone 21) 3G (Zone 2) / 3D (Zone 22)		
Certificate of conformity	KEMA 99 ATEX 7906		KEMA 99 ATEX 6312		
Testing body	KEMA		KEMA		
Sound pressure level	117 dB(A) ±3 dB(A)		117 dB(A) ±3 dB(A)		
Sound level reduction	by −9 dB		by −9 dB		
Temperature class T	IIC: T4 @ −50 °C ... +55 °C Ta IIB: T4 @ −50 °C ... +70 °C Ta		T4 @ −50 °C ... +55 °C Ta		
Storage temperature	−50 °C ... +70 °C				
Relative humidity	90 %				
Duty cycle	100 %				
Material	housing	die-cast aluminium LM6, similar to RAL 3000 (flame red)			
	horn	ABS self-extinguishing, similar to UL 94 V0 & 5VA FR ABS, Ex II 2D anti-static ABS, black			
Connecting terminals	Exd	1x 4 mm² or 2x 2.5 mm²			
	Exde	2x 2.5 mm²			
Cable entry	2 / 1x closed, 1x open (M20), optionally PG13.5 or 1/2" NPT				
Weight	Exd	AC: 3.88 kg DC: 3.42 kg			
	Exde	AC: 4.14 kg DC: 3.38 kg			

OPTIONS/ACCESSORIES

IECEx
No. SIM
04.0001

Exd
BExDS

TONE TABLE

NO.	DESCRIPTION – BASIC TONE		STAGE		NO.	DESCRIPTION – BASIC TONE		STAGE	
			2	3				2	3
1	Continuous tone	1000 Hz	31	11	18	Interrupted tone, Sweden SS031711 (air raid warning)	660 Hz	2	5
2 ¹	Alternating tone, UK BS5839-1 (fire alarm, railway crossing)	1000 Hz EN 54-3 800 Hz	17	5	19	Sweeping, France NFC48-265	1600 Hz 1 s 1400 Hz 0.5 s	2	5
3	Slow whoop	1200 Hz 3 s 500 Hz 0.5 s	2	5	20	Continuous tone, Sweden SS031711 (all-clear signal)	660 Hz	2	5
4	Sweeping (fast)	1000 Hz 10 ms 800 Hz 10 ms	6	5	21	Alternating tone, Sweden SS031711	554 Hz 0.5 s 440 Hz 0.5 s	2	5
5	Continuous tone	2400 Hz	3	27	22	Interrupted tone	554 Hz 0.875 s	2	5
6	Sweeping	2900 Hz 70 ms 2400 Hz 70 ms	7	5	23	Interrupted tone	800 Hz 0.25 s	6	5
7	Sweeping (fast)	2900 Hz 10 ms 2400 Hz 10 ms	10	5	24	Sweeping (medium), UK BS5839-1	1000 Hz 0.5 s 800 Hz 0.5 s	29	5
8	Sweeping	1200 Hz 3 s 500 Hz 3 s	2	5	25	Sweeping	2900 Hz 0.5 s 2400 Hz 0.5 s	29	5
9	Sawtooth, DIN tone 33404-3 Germany (emergency signal), PFEER PTAP	1200 Hz 1 s EN 54-3 500 Hz	15	2	26	Interrupted tone, (fast variable), bell	1450 Hz 0.69 ms	2	1
10	Alternating tone	2900 Hz 0.25 s 2400 Hz 0.25 s	7	5	27	Continuous tone	554 Hz	26	5
11	Interrupted tone	1000 Hz 0.25 s	31	1	28	Continuous tone	440 Hz	2	5
12	Alternating tone	1000 Hz 1.14 s 800 Hz 1.14 s	4	5	29	Sweeping (fast), UK BS5839-1	1000 Hz 70 ms 800 Hz 70 ms	7	5
13	Interrupted tone	2400 Hz 10 ms	15	5	30	Interrupted tone, Australia AS2220, AS1610, AS1670	420 Hz 0.625 s	32	5
14	Interrupted tone	800 Hz 0.25 s 1 s	4	5	31	Sawtooth, DIN tone 33404-3 Germany (emergency signal)	1200 Hz 1 s 500 Hz	11	1
15	Continuous tone	800 Hz	2	5	32	Slow whoop, Australian evacuation alarm AS2220	1200 Hz 3.75 s 500 Hz 0.25 s	26	1
16	Interrupted tone	660 Hz 150 ms EN 54-3 150 ms	18	5					
17	Alternating tone, France NFS 32-001 (fire alarm)	554 Hz 0.1 s EN 54-3 440 Hz 0.4 s	2	27					

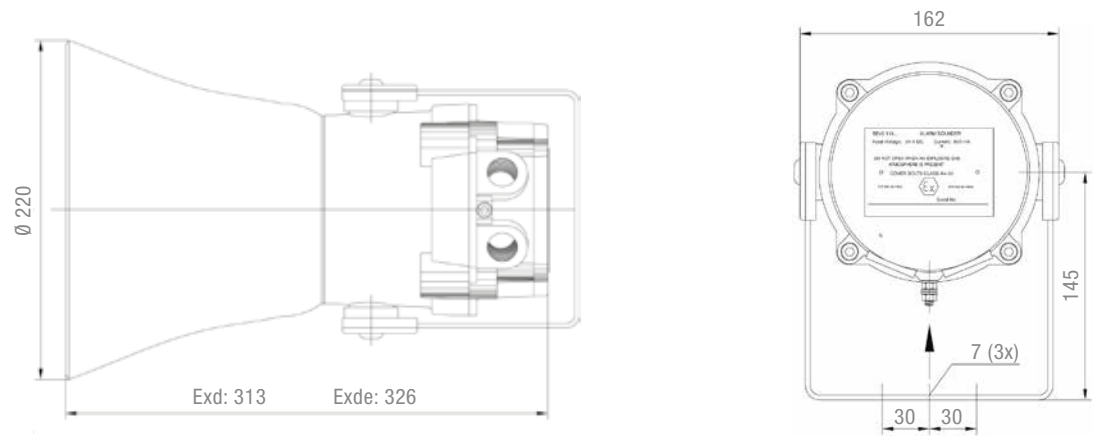
¹ factory setting

The sounder can be set externally to the respective tones of stage 2 & 3. Tone 2 is preset.

ARTICLE NO.	BExS 120D		BExS 120E		BExDS 120D	BExDS 120E
Rated voltage	230 V AC	24 V DC	230 V AC	24 V DC	230 V AC	230 V AC
	32076100000	32076800000	32078100000	32078800000	32089100000	32081100000

Article numbers for other voltages on request.

DIMENSIONS



CONNECTION DIAGRAMS

AC

DC

