

# FLASHING SOUNDERS BExCS110-05D ATEX



Combination devices for visual and acoustic alarms

- Ex ATEX categories 2G (Zones 1 and 2), 2D (Zones 21 and 22) certified
- Stainless steel protective cage and stainless steel mounting bracket for 360° positioning.
- Extremely intensive light reflection due to 5 joules xenon flash.
- 32 different tones incl. DIN tone, UK00A/PFEER conformant, 2 externally controllable tones (via plus or minus in DC version).
- Acoustic and visual signal can be controlled separately.
- Synchronised flash frequency (1 Hz) or alternating flash mode in system operation.
- Highly resistant to corrosion and suitable for the toughest environments.
- Adjustable volume (except 12 V DC version).
- Flashing light is insensitive to vibration, impact and shock.

IP 66  
IP 67


protection system

+70 °C  
-50 °C



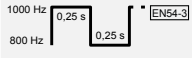


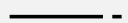

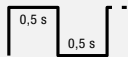







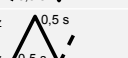

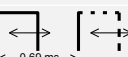




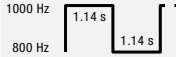


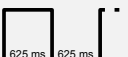







Ex-certified

+70 °C  
-40 °C

operating temperature


PRODUCT		BExCS110-05D sounder				
DATA						
Rated voltage		230 V	115 V	48 V	24 V	12 V
		AC 50   60 Hz		DC		
Operating range		±10 %	±10 %	±25 %	±25 %	±25 %
Nominal current consumption		56 mA	110 mA	130 mA	250 mA	195 mA
		BExCS110-05D flashing light				
Rated voltage		230 V	115 V	48 V	24 V	12 V
		AC 50   60 Hz		DC		
Operating range		±10 %	±10 %	42–54 V	20–28 V	10–14 V
Nominal current consumption		55 mA	140 mA	180 mA	270 mA	750 mA
		BExCS110-05D				
Type of protection		„D“ = Ex db / Ex tb				
Explosion protection		see certificate				
Category (area of use)		2G (Zone 1) / 2D (Zone 21) / 3G (Zone 2) / 3D (Zone 22)				
Certificate of conformity		KEMA 03 ATEX 2545 X				
Sound pressure level		110 dB(A)				
Sound level reduction		max. -9 dB (A) (not for 12V DC units)				
Flash energy		5 Joule				
Flash rate		approx. 1 Hz = 60 flashes/min				
Temperature class T		IIB T5 @ Ta -50°C...+40°C ; IIIC T110°C @ Ta -50°C...+50°C further details see certificate and installation instructions				
Operating temperature		-40 °C ... +70 °C				
Storage temperature		-50 °C ... +70 °C				
Ex-certified ambient temperature		max. -50°C...+70°C (see also temperature classes)				
Relative humidity		90 %				
Protection system (EN 60529)		IP 66/67				
Duty cycle		100 %				
Service life of the light source		light emission still 70 % after 8,000,000 flashes				
Material	lens	 glass				
	housing	die-cast aluminium LM6, similar to RAL 3000 (flame red)				
	horn	ABS self-extinguishing, similar to UL 94 VO & 5VA FR ABS, red				
Connecting terminals		0.5–2.5 mm <sup>2</sup>				
Cable entry		2 / 1x closed, 1x open (M20), optionally PG13.5 or 1/2" NPT				
Weight	AC	5.0 kg				
	DC	4.8 kg				

**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	Alternating tone, UK BS5839-1 (fire alarm, railway crossing)	1000 Hz		17	5	19	Sweeping, France NFC48-265	1600 Hz		2	5
3	Slow whoop	1200 Hz		2	5	20	Continuous tone, Sweden SS031711 (all-clear signal)	660 Hz		2	5
4	Sweeping (fast)	1000 Hz		6	5	21	Alternating tone, Sweden SS031711	554 Hz		2	5
5	Dauerton	2400 Hz		3	20	22	Interrupted tone	544 Hz		2	5
6	Wobbelton	2900 Hz		7	5	23	Interrupted tone	800 Hz		6	5
7	Wobbelton (schnell)	2900 Hz		10	5	24	Sweeping (medium), UK BS5839-1	1000 Hz		29	5
8	Wobbelton	1200 Hz		2	5	25	Sweeping	2900 Hz		29	5
9	Sägezahn, DIN-Ton 33404-3 Deutschland (Notsignal), PFEER PTAP	1200 Hz		15	2	26	Interrupted tone, (fast variable), bell	1450 Hz		2	1
10	Wechselton	2900 Hz		7	5	27	Continuous tone	554 Hz		26	5
11	Unterbrochener Ton	1000 Hz		31	1	28	Continuous tone	440 Hz		2	5
12	Wechselton	1000 Hz		4	5	29	Sweeping (fast), UK BS5839-1	1000 Hz		7	5
13	Unterbrochener Ton	2400 Hz		15	5	30	Interrupted tone, Australia AS2220, AS1610, AS1670	420 Hz		32	5
14	Unterbrochener Ton	800 Hz		4	5	31	Sawtooth, DIN tone 33404-3 Germany (emergency signal)	1200 Hz		11	1
15	Dauerton	800 Hz		2	5	32	Slow whoop, Australian evacuation alarm AS2220	1200 Hz		26	1
16	Unterbrochener Ton	660 Hz		18	5			500 Hz			
17	Wechselton, Frankreich NFS 32-001 (Feueralarm)	554 Hz		2	27						

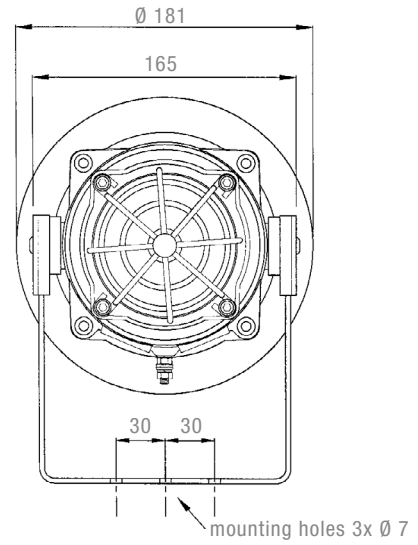
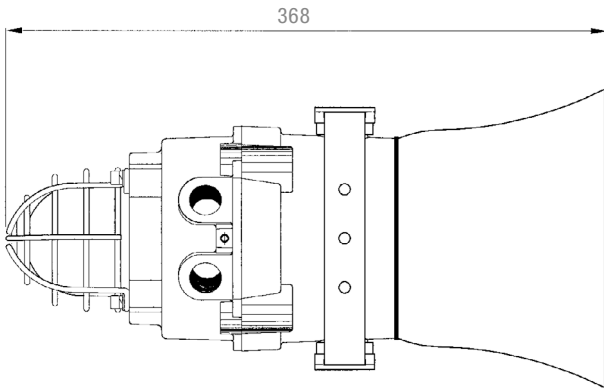
<sup>1</sup> factory setting

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

ARTICLE-NO.	BExCS110-05D		
Lens colour	230 V AC	115 V AC	24 V DC
	32074105000	32074155000	32074805000

Article numbers for other colours and voltages on request.

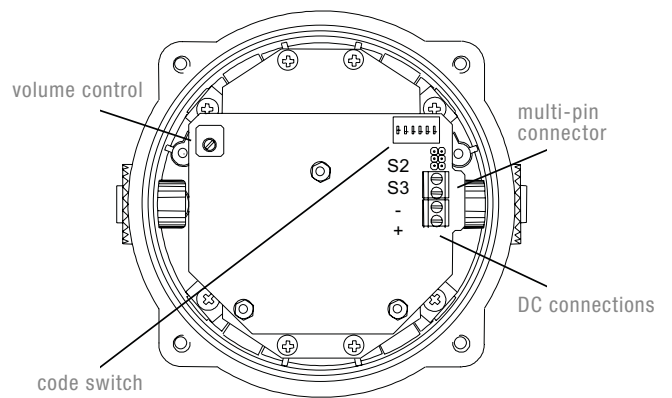
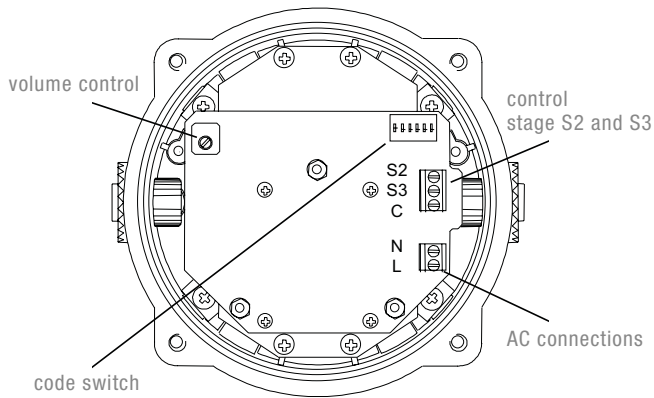
DIMENSIONS



CONNECTION DIAGRAMS

sounder – AC

sounder – DC



flashing light – AC

flashing light – DC

