

# FLASHING SOUNDERS

## BExCS 110-05D | BExDCS 110-05D



Combination devices for visual and acoustic alarms


- 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 67**


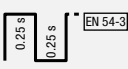

















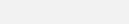





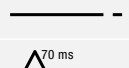
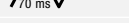



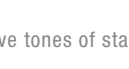

protection system

**+70 °C**  
**-50 °C**

operating temperature


PRODUCT	BEx(D)CS 110-05D sounder				
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
PRODUCT	BEx(D)CS 110-05D 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
PRODUCT	BExCS 110-05D		BExDCS 110-05D		
Explosion protection	II 2G Ex d IIB T4 -50 °C ... +70 °C Ta		II 2GD Ex d IIB T4 T100°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 03 ATEX 2545 X		KEMA 01 ATEX 2223 X		
Testing body	KEMA		KEMA		
Sound pressure level	110 dB(A)				
Sound level reduction	-9 dB				
Flash energy	5 J				
Flash rate	approx. 1 Hz = 60 flashes/min				
Storage temperature	-50 °C ... +70 °C				
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 V0 & 5VA FR ABS, Ex II 2D anti-static ABS, black			
Connecting terminals	0.5–4.0 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		
2 <sup>1</sup>	Alternating tone, UK BS5839-1 (fire alarm, railway crossing)	1000 Hz 800 Hz	 EN 54-3	17	5		
3	Slow whoop	1200 Hz 500 Hz		2	5		
4	Sweeping (fast)	1000 Hz 800 Hz		6	5		
5	Continuous tone	2400 Hz		3	27		
6	Sweeping	2900 Hz 2400 Hz		7	5		
7	Sweeping (fast)	2900 Hz 2400 Hz		10	5		
8	Sweeping	1200 Hz 500 Hz		2	5		
9	Sawtooth, DIN tone 33404-3 Germany (emergency signal), PFEER PTAP	1200 Hz 500 Hz	 EN 54-3	15	2		
10	Alternating tone	2900 Hz 2400 Hz		7	5		
11	Interrupted tone	1000 Hz		31	1		
12	Alternating tone	1000 Hz 800 Hz		4	5		
13	Interrupted tone	2400 Hz		15	5		
14	Interrupted tone	800 Hz		4	5		
15	Continuous tone	800 Hz		2	5		
16	Interrupted tone	660 Hz	 EN 54-3	18	5		
17	Alternating tone, France NFS 32-001 (fire alarm)	554 Hz 440 Hz	 EN 54-3	2	27		
18	Interrupted tone, Sweden SS031711 (air raid warning)	660 Hz		2	5		
19	Sweeping, France NFC48-265	1600 Hz 1400 Hz		2	5		
20	Continuous tone, Sweden SS031711 (all-clear signal)	660 Hz		2	5		
21	Alternating tone, Sweden SS031711	554 Hz 440 Hz		2	5		
22	Interrupted tone	554 Hz		2	5		
23	Interrupted tone	800 Hz		6	5		
24	Sweeping (medium), UK BS5839-1	1000 Hz 800 Hz		29	5		
25	Sweeping	2900 Hz 2400 Hz		29	5		
26	Interrupted tone, (fast variable), bell	1450 Hz		2	1		
27	Continuous tone	554 Hz		26	5		
28	Continuous tone	440 Hz		2	5		
29	Sweeping (fast), UK BS5839-1	1000 Hz 800 Hz		7	5		
30	Interrupted tone, Australia AS2220, AS1610, AS1670	420 Hz		32	5		
31	Sawtooth, DIN tone 33404-3 Germany (emergency signal)	1200 Hz 500 Hz		11	1		
32	Slow whoop, Australian evacuation alarm AS2220	1200 Hz 500 Hz		26	1		

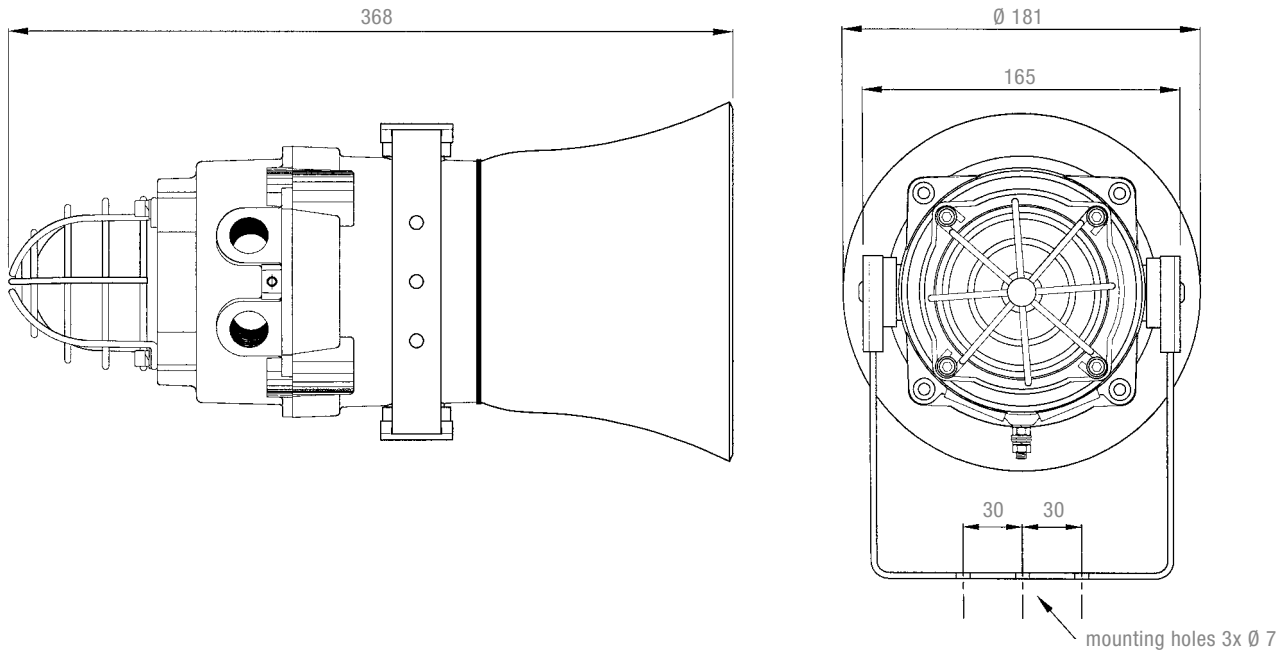
<sup>1</sup> factory setting

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

ARTICLE NO.	BExCS 110-05D		
Lens colour	230 V AC	115 V AC	24 V DC
	32074105000	32074155000	32074805000

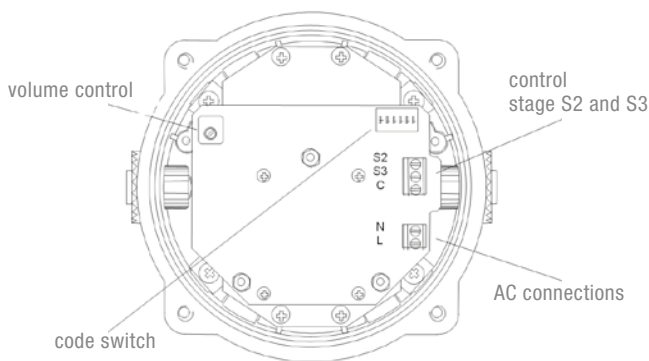
Article numbers for other colours and voltages on request.

DIMENSIONS

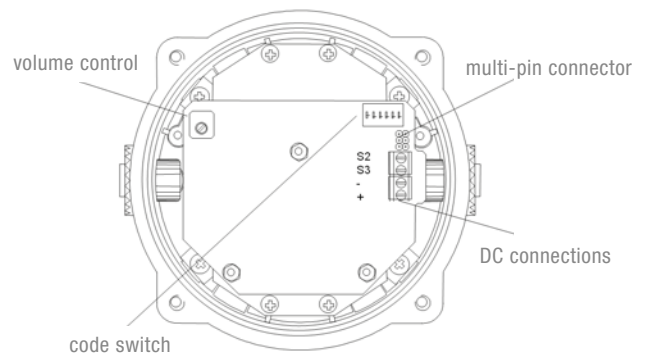


CONNECTION DIAGRAMS

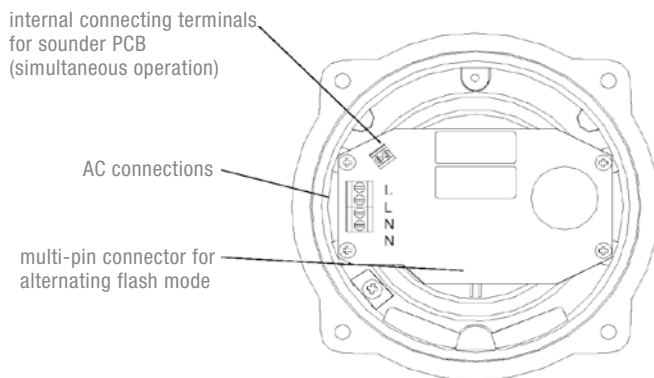
sounder – AC



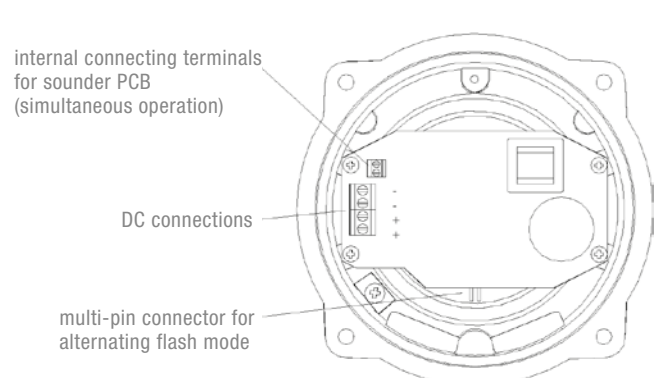
sounder – DC



flashing light – AC



flashing light – DC



MANUFACTURER'S DECLARATION

We hereby declare that the explosion-protected flashing light with the type designation **BExCS 110-05 D, BExDCS 110-05D** has been developed and manufactured in accordance with section 5.1.2 of EN 50014.

**This declaration is based on compliance with the following regulations and standards:**

- |              |   |
|--------------|---|
| 94/9/EG      | CE conformity   |
| EN 50014     | Electrical equipment for areas at risk of explosions – General requirements |
| EN 50018     | Pressure-resistant encapsulation “d”  |
| EN 50281-1-1 | Electrical equipment for use in areas with combustible dust                 |