

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 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 mm²				
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 ¹	Alternating tone, UK BS5839-1 (fire alarm, railway crossing)	1000 Hz EN 54-3	17	5	19	Sweeping, France NFC48-265	1600 Hz 1400 Hz	2	5
3	Slow whoop	1200 Hz 500 Hz	2	5	20	Continuous tone, Sweden SS031711 (all-clear signal)	660 Hz	2	5
4	Sweeping (fast)	1000 Hz 800 Hz	6	5	21	Alternating tone, Sweden SS031711	554 Hz 440 Hz	2	5
5	Continuous tone	2400 Hz	3	27	22	Interrupted tone	554 Hz	2	5
6	Sweeping	2900 Hz 2400 Hz	7	5	23	Interrupted tone	800 Hz	6	5
7	Sweeping (fast)	2900 Hz 2400 Hz	10	5	24	Sweeping (medium), UK BS5839-1	1000 Hz 800 Hz	29	5
8	Sweeping	1200 Hz 500 Hz	2	5	25	Sweeping	2900 Hz 2400 Hz	29	5
9	Sawtooth, DIN tone 33404-3 Germany (emergency signal), PFEER PTAP	1200 Hz EN 54-3	15	2	26	Interrupted tone, (fast variable), bell	1450 Hz	2	1
10	Alternating tone	2900 Hz 2400 Hz	7	5	27	Continuous tone	554 Hz	26	5
11	Interrupted tone	1000 Hz	31	1	28	Continuous tone	440 Hz	2	5
12	Alternating tone	1000 Hz 800 Hz	4	5	29	Sweeping (fast), UK BS5839-1	1000 Hz 800 Hz	7	5
13	Interrupted tone	2400 Hz	15	5	30	Interrupted tone, Australia AS2220, AS1610, AS1670	420 Hz	32	5
14	Interrupted tone	800 Hz	4	5	31	Sawtooth, DIN tone 33404-3 Germany (emergency signal)	1200 Hz 500 Hz	11	1
15	Continuous tone	800 Hz	2	5	32	Slow whoop, Australian evacuation alarm AS2220	1200 Hz 500 Hz	26	1
16	Interrupted tone	660 Hz EN 54-3	18	5					
17	Alternating tone, France NFS 32-001 (fire alarm)	554 Hz EN 54-3	2	27					

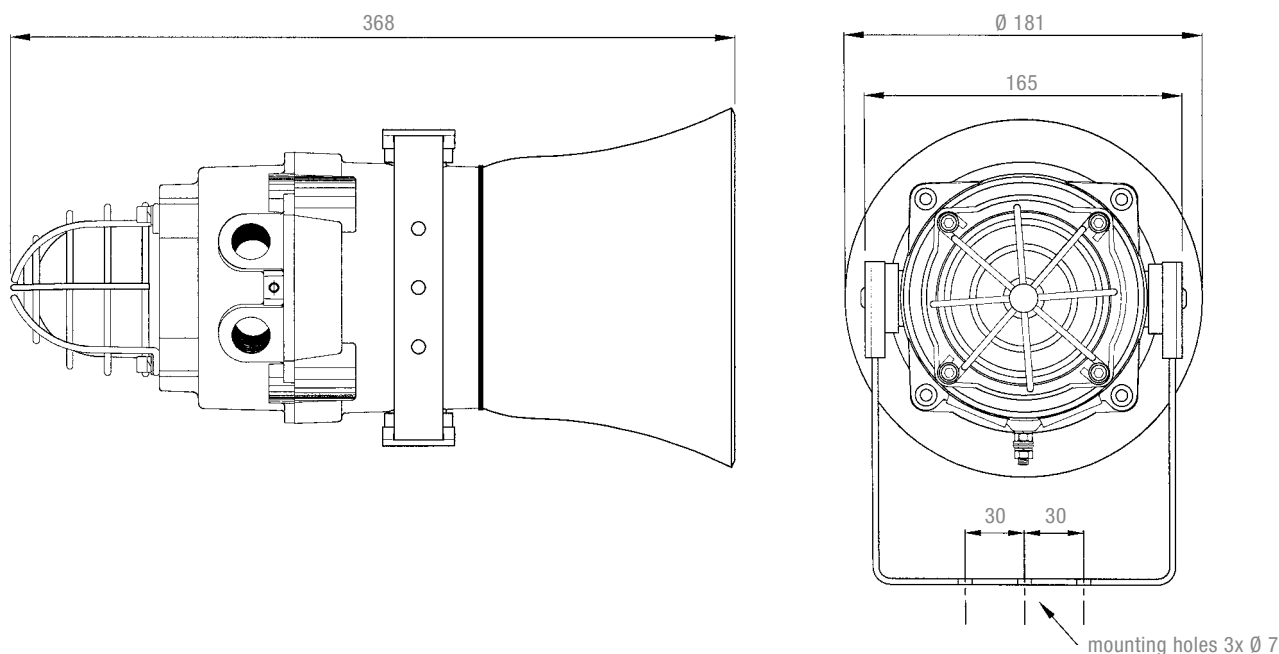
¹ factory setting

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

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

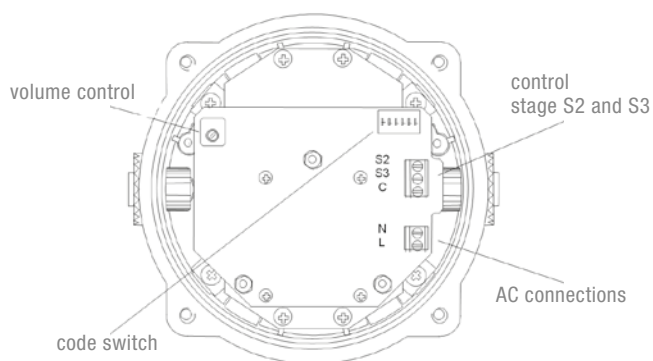
Article numbers for other colours and voltages on request.

DIMENSIONS

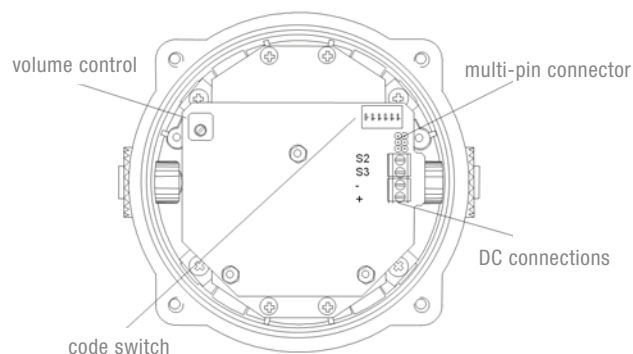


CONNECTION DIAGRAMS

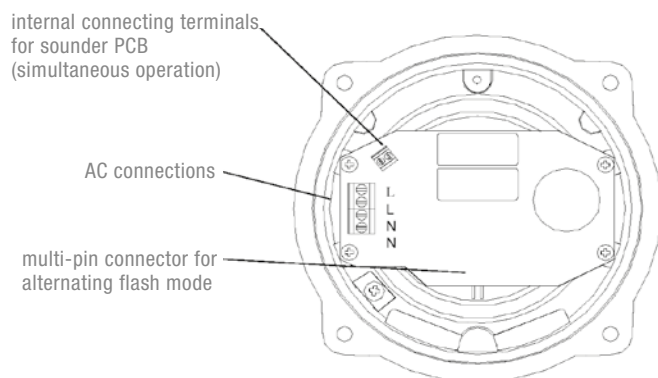
sounder – AC



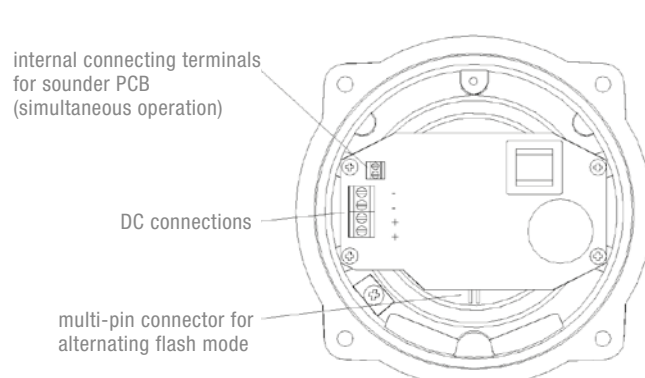
sounder – DC



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