

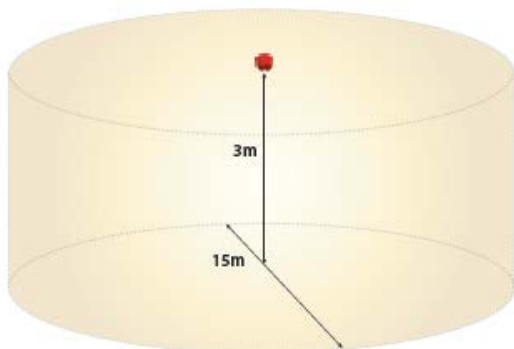
ESB AND ESC Audible and Visual Alarm Devices for FX 3NET Fire Detection System

Electronic alarm devices are used to alert the fire alarms and danger of fire. ESB and ESC alarm devices are EN54-3 and EN54-23 approved with LED light indication and 32 different type of tones to choose from.

Ceiling mounting

ESB and ESC ceiling mounted Visual Alarm Devices are available as fire beacons or combined sounder beacons. With an EN54-23 approved coverage pattern of C-3-15, each ceiling mounted device can be mounted up to 3m high and provide a 15m cylinder diameter coverage, which can cover a 11.3m x 11.3m square room with a single device.

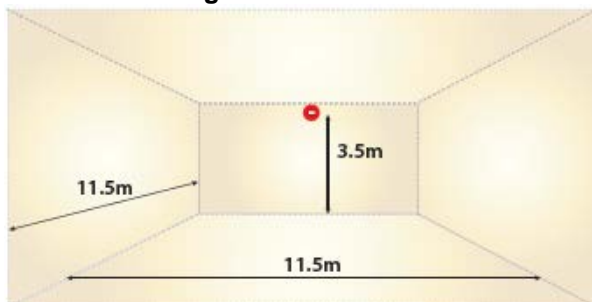
EN54-23 Coverage: C-3-15



Wall mounting

ESB and ESC wall mounted Visual Alarm Devices are available as fire beacons or combined sounder beacons. With an EN54-23 approved coverage pattern of W-3.5-11.5, each wall mounted device can be mounted up to 3.5m high and can cover an 11.5m x 11.5m square room with a single device.

EN54-23 Coverage: W-3.5-11.5



Ceiling mounting




Wall mounting

Product codes

Product	Name	Body colour	Code
Wall Beacon Deep Base White Flash	ESB-5003	Red	ESB-5003
Wall Beacon Shallow Base White Flash	ESB-5004	Red	ESB-5004
Ceiling Beacon Deep Base White Flash	ESB-5007	Red	ESB-5007
Ceiling Beacon Shallow Base White Flash	ESB-5008	Red	ESB-5008
Wall Sounder Beacon Deep Base White Flash	ESC-5003	Red	ESC-5003
Wall Sounder Beacon Shallow Base White Flash	ESC-5004	Red	ESC-5004
Ceiling Sounder Beacon Deep Base White Flash	ESC-5007	Red	ESC-5007
Ceiling Sounder Beacon Shallow Base White Flash	ESC-5008	Red	ESC-5008
Wall Beacon Deep Base Red Flash	ESD-5003	Red	ESD-5003
Wall Beacon Shallow Base Red Flash	ESD-5004	Red	ESD-5004
Ceiling Beacon Deep Base Red Flash	ESD-5007	Red	ESD-5007
Ceiling Beacon Shallow Base Red Flash	ESD-5008	Red	ESD-5008
Wall Sounder Beacon Deep Base Red Flash	ESF-5003	Red	ESF-5003
Wall Sounder Beacon Shallow Base Red Flash	ESF-5004	Red	ESF-5004
Ceiling Sounder Beacon Deep Base Red Flash	ESF-5007	Red	ESF-5007
Ceiling Sounder Beacon Shallow Base Red Flash	ESF-5008	Red	ESF-5008

Electrical connections

Sounder Beacon

Line	Terminal Marking
Common Positive Supply IN	(3) IN+
Sounder Negative Supply	(2) _ or COM-
Beacon Negative Supply	(1) 

LED beacon

Line	Terminal Marking
Common Positive Supply (24 VDC)	(3) IN+
Beacon Negative Supply	(1) or LED-

Technical data

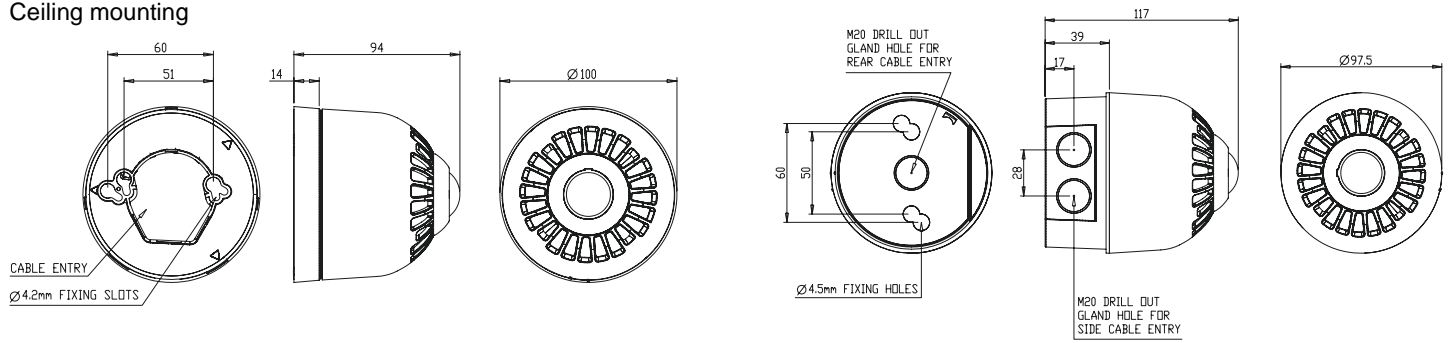
Supply Voltage Range	17 – 60Vdc
Switch on Surge @ 24Vdc	<1.2mA
Current:	
Alarm /Sounder/Beacon) @ 24Vdc 0.5 Hz	25.1mA
Alarm /Sounder/Beacon) @ 24Vdc 1 Hz	45.1mA
Sounder:	
Number of Tones	32
Peak Sound Level	97dBA @ 1m*
Frequency Range	400 – 2850 Hz*
Beacon:	
Flash Rate	0.5Hz/1Hz
Flash Colour	White/Red
Coverage (C)	C-3-15
Coverage (W)	W-3.5-11.5
Environmental:	
Humidity	5% to 95%
Temperature	-25°C to +70°C
Casing	High Impact Polycarbonate
IP Rating	IP21 (shallow base) IP65 (deep base)
Synchronisation	Automatic

*EN54-3 certified on tones 1, 2, 3, 4, 5, 6, 7 and 13

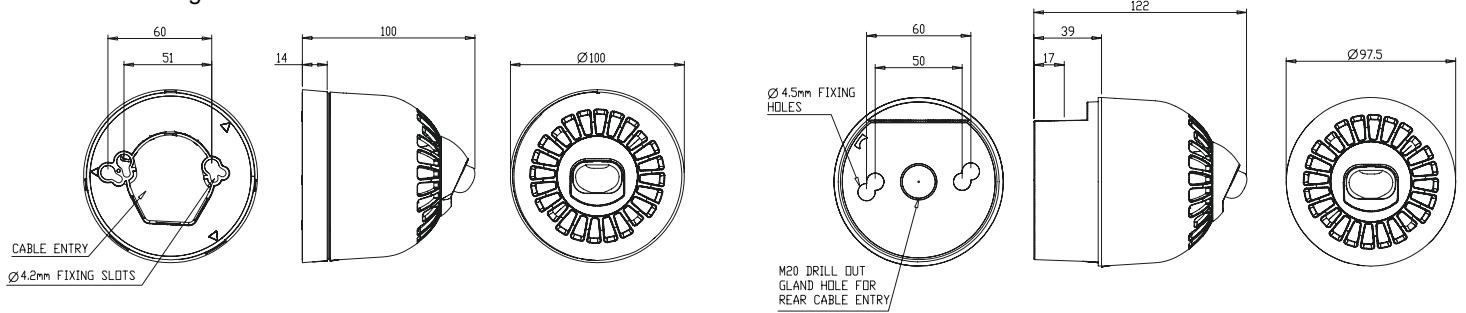
Schneider Electric Fire & Security Oy reserves the right to modifications

Dimensions

Ceiling mounting



Wall mounting



Tone selection

The tone is selected using the 5 way dipswitch on the bottom of the sounder head. Refer to the table below for details of the available tones and the switch settings required to select them.

Volume control

The sound output of the unit can be reduced by adjusting the potentiometer on the bottom of the sounder.

Tone	Tone type	Tone description/application	2 nd stage tone	DIP Switch 1-2-3-4-5	Sound level dBA@1m	Average current mA
1	————	970Hz (BS5839-1:2002)	4	0-0-0-0-0	97	18
2	□□□□	800Hz/970Hz @ 2Hz (BS5839-1:2002)	1	0-0-0-0-1	97	17
3	∕∕∕∕	800Hz - 970Hz @ 2Hz (BS5839-1:2002)	1	0-0-0-1-0	98	17
4	-----	970Hz 1s OFF/1s ON Apollo Fire Systems Alert Tone, (BS5839-1:2002)	1	0-0-0-1-1	96	11
5	□□□□	970Hz 0,5s/630Hz 0,5s Apollo Fire Systems Alert Tone, (BS5839-1:2002)	4	0-0-1-0-0	97	16
6	□□□□	544Hz 0,1s/440Hz 0,4s (France – AFNOR NF S 32 001)	1	0-0-1-0-1	96	10
7	∕∕∕∕	500 – 1200Hz 3,5s/o,5s OFF (Netherlands – NEN 2575:200)	1	0-0-1-1-0	99	13
8	-----	420Hz 0,625s ON/0,625s OFF (Australian AS2220 Alert tone)	9	0-0-1-1-1	93	8
9	∕∕∕∕	500 – 1200 Hz 3,75s/o,25s OFF (Australian AS2220 Evacuation tone)	8	0-1-0-0-0	99	13
10	□□□□	550Hz/440Hz @ 0,5 Hz	1	0-1-0-0-1	99	11
11	--- ---	970Hz 0,5s ON/0,5s OFF x 3/1,5s OFF (ISO 8201 Low tone)	12	0-1-0-1-0	97	9
12	--- ---	2850Hz 0,5s ON/0,5s OFF x 3/1,5s OFF (ISO 8201 High tone)	11	0-1-0-1-1	93	20
13	∕∕∕∕	1200Hz – 500Hz @ 1Hz (DIN 33 404)	1	0-1-1-0-0	97	14
14	————	400Hz	6	0-1-1-0-1	92	10
15	□□□□	550Hz 0,7s/1000Hz 0.33s (“SafeSound”)	1	0-1-1-1-0	99	14
16	∕∕∕∕	1500Hz – 2700Hz @ 3Hz (Vandal Alarm)	1	0-1-1-1-1	105	32
17	————	750Hz	27	1-0-0-0-0	98	15
18	————	2400Hz	26	1-0-0-0-1	106	35
19	-----	750Hz 0,33Hz ON/0,51s OFF	1	1-0-0-1-0	98	8
20	-----	750Hz 0,33Hz ON/0,33s OFF	1	1-0-0-1-1	98	10
21	-----	750Hz 0,33Hz ON/0,2s OFF	1	1-0-1-0-0	97	9
22	□□□□	510Hz 0,5s/610Hz 0,5Hz	4	1-0-1-0-1	95	12
23	□□□□	550Hz 0,33Hz/1000Hz 0,7Hz	1	1-0-1-1-0	99	17
24	∕∕∕∕	250Hz – 1200Hz @ 12Hz	18	1-0-1-1-1	94	10
25	∕∕∕∕	500Hz – 1200Hz @ 0.33Hz	18	1-1-0-0-0	99	14
26	∕∕∕∕	2500Hz – 2850Hz @ 7Hz	18	1-1-0-0-1	98	45
27	∕∕∕∕	600Hz – 900Hz/0,9s	1	1-1-0-1-0	97	15
28	∕∕∕∕	660Hz – 680Hz/0,9s	1	1-1-0-1-1	95	14
29	∕∕∕∕	670Hz – 725Hz/0,9s	1	1-1-1-0-0	96	15
30	∕∕∕∕	920Hz – 750Hz/0,9s	1	1-1-1-0-1	98	16
31	∕∕∕∕	700Hz – 900Hz 0,3s/0,6s OFF	1	1-1-1-1-0	97	7
32	∕∕∕∕	900Hz – 760Hz 0,6s/0,3s OFF	1	1-1-1-1-1	98	11