

File Information

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Comments:	Remove SPL from tones 3 7 14 29 and 30 from en54 part 3 column of the tones table

Rev:	-
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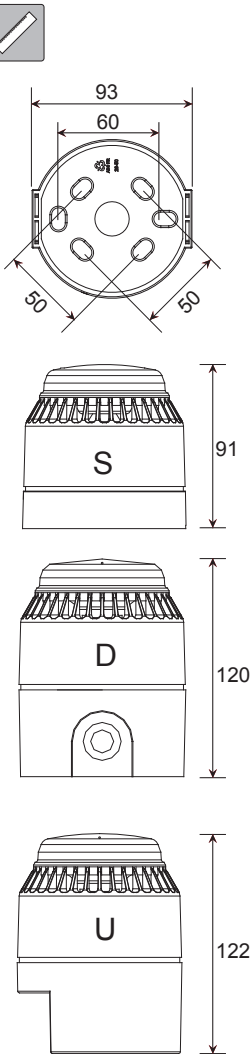
Flashni (FL/SV)

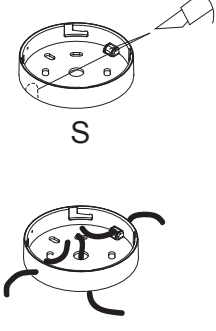
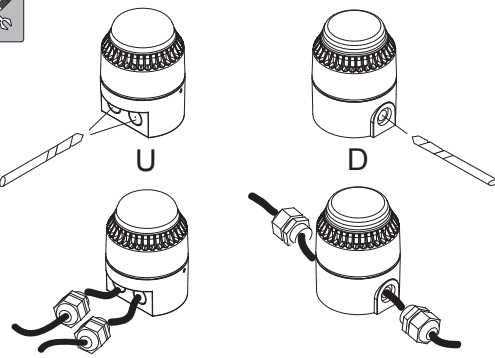


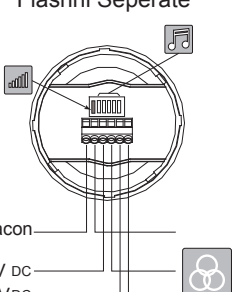
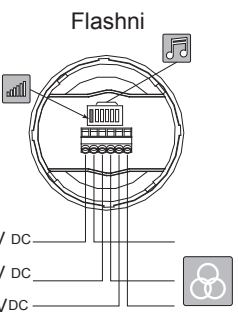
Flashni (FL/SV) : 0786-CPD-21167 (9~15V & 18~28V)
EN54-3 Fire Alarm Device - Sounder
Dispositif d'alarme incendie EN54-3 – Avertisseur d'incendie
EN54-3 Feueralarmgerät – Töner
Dispositivo di allarme antincendio a norma EN54-3 - Sirena
EN54-3 Brandalarm – sounder
Dispositivo de alarma de incendios EN54-3 – Timbre de alarma
EN54-3 Brandvarnare – Signalgivare
EN54-3 Urządzenie systemów SAP - Sygnalizator

			
EN54-3	EN54-3	EN54-3	EN54-3
	12Vnom (9 ~ 15VDC)		24Vnom (18 ~ 28VDC)
	111 mA max		85 mA max
	0.28mm ² ~ 2.5mm ²		0.28mm ² ~ 2.5mm ²
	Type A - 10 c°~ +55 c°		Type A - 10 c°~ +55 c°
	ABS V0		ABS V0
	Type A = IP21C		Type A = IP21C
	6		32

Product exceeds minimum requirements of EN54-3
See www.fullleon.com
Le produit dépasse les exigences minimum de EN54-3
Voir www.fullleon.com
Das Erzeugnis erfüllt die Mindestanforderungen von EN54-3.
Siehe www.fullleon.com
Il prodotto supera i requisiti minimi previsti dalla norma EN54-3
Vedi www.fullleon.com
Product overtreft de minimale vereisten van EN54-3.
Zie www.fullleon.com
El producto excede los requisitos mínimos de la norma EN54-3
Véase www.fullleon.com
Produkten överträffar minsta krav enligt EN54-3
Se www.fullleon.com
Parametry techniczne produktu przekraczają minimalne
wymagania normy PN EN54-3, szczegóły www.fullleon.com







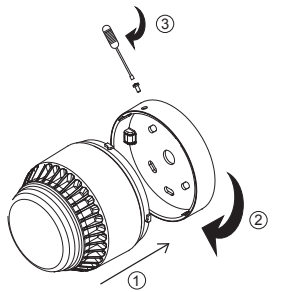


Switch Variants

Example of Tone 3 setting

1	High Vol	1	1	1	1	1	1	ON	CIT
1	Low Vol	1	1	1	1	1	1	1	2

2	High Vol	1	1	1	1	1	1	ON	CIT
2	Low Vol	1	1	1	1	1	1	1	2



				Main Application		12V @20 c°			24V @20 c°		
Pattern	Frequency Hz	Rate	Depiction			mA	dB(A)		mA	dB(A)	dB(A)
1	14	11111	Alternating	800 & 970	2Hz (250ms-250ms)	BS Fire	86	91	68	100	*
2	14	11110	Sweep	800 to 970	7Hz (7/s)	BS Fire	86	93	68	101	*
3	14	11101	Sweep	800 to 970	1Hz (1/s)	BS Fire	86	95	68	101	*
4	14	11100	Continuous	2850	Steady	General Purpose	93	95	82	110	*
5	4	11011	Sweep	2400 to 2850	7Hz	General Purpose	94	101	80	110	*
6	4	11010	Sweep	2400 to 2850	1Hz	General Purpose	92	104	80	110	*
7	14	11001	Slow whoop	500 to 1200	3s sweep, 0.5 s silence, then repeat	Dutch fire (NEN 2575)	84	95	70	98	*
8	14	11000	Sweep (DIN)	1200 to 500	1Hz	German fire (DIN 33 404)	87	94	66	98	94
9	4	10111	Alternating	2400 & 2850	2Hz (250ms-250ms)	General Purpose	92	95	80	109	*
10	14	10110	Intermittent	970	0.5Hz (1s On/1s Off)	PFEER alert	85	92	62	100	*
11	14	10101	Alternating	800 & 970	1Hz (500ms-500ms)	BS Fire	85	92	68	100	*
12	4	10100	Intermittent	2850	0.5Hz (1s On/1s Off)	General Purpose	88	95	74	109	*
13	14	10011	Intermittent	970	0.8Hz (250ms On/1s Off)	General Purpose	83	91	58	96	*
14	14	10010	Continuous	970	Steady	PFEER toxic gas	85	92	70	101	*
15	14	10001	Alternating	554 & 440	100ms-400ms	French fire (NFS 32-001)	87	93	62	93	*
16	16	10000	Intermittent	660	3.3Hz (150ms On/150ms Off)	Swedish (Air Raid)	84	92	59	86	*
17	17	01111	Intermittent	660	0.28Hz(1.8s On/1.8s Off)	Swedish (Local warning)	84	93	62	88	*
18	18	01110	Intermittent	660	0.05Hz (13s Off / 6.5Hz On)	Swedish (Pre-mess)	85	93	64	88	*
19	19	01101	Continuous	660	Steady	Swedish (All clear)	84	93	64	89	*
20	20	01100	Alternating	554 & 440	0.5Hz (1s On/1s Off)	Swedish (Turn out)	86	93	63	96	*
21	21	01011	Intermittent	660	1Hz (500ms-500ms)	Swedish general purpose	84	92	60	100	*
22	14	01010	Intermittent	2850	4Hz (150ms On/100ms Off)	Pelican crossing	90	94	72	109	*
23	14	01001	Sweep	800 to 970	50Hz	BS Fire	85	92	68	101	*
24	4	01000	Sweep	2400 to 2850	50Hz	General Purpose	93	101	75	110	*
25	25	00111	Intermittent	970	3 x 500ms pulses, 1.5s silence, then repeat	ISO 8201	83	92	64	99	*
26	26	00110	Intermittent (I*)	800 to 970	3 x 500ms pulsed sweep, 1.5s silence, then repeat	ISO 8201	84	94	70	108	*
27	27	00101	Intermittent (I*)	970 & 800	3 x 500ms pulsed sweep, 1.5s silence, then repeat	ISO 8201	83	91	85	83	*
28	10	00100	Alternating	800 & 970	2Hz (250ms-250ms)	BS Fire	86	91	67	100	*
29	988Hz	00011	Alternating	990 & 650	2Hz (250ms-250ms) (Symphoni tones)	BS Fire	87	95	71	99	*
30	510Hz	00010	Alternating	510 & 610	2Hz (250ms-250ms) (Squashni Micro tones)	BS Fire	86	91	65	96	*
31	14	00001	Sweep	300 to 1200	1Hz	General Purpose	87	95	71	96	*
32	510Hz	00000	Alternating	510 & 610	1Hz (500ms-500ms)	BS Fire	86	92	85	83	*

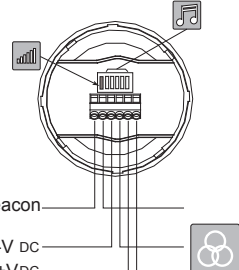
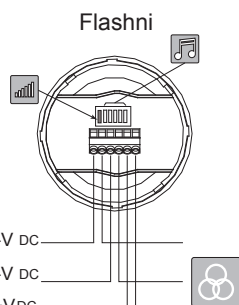
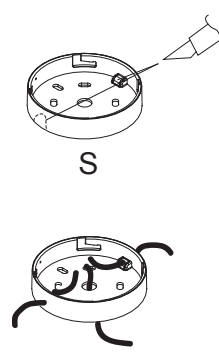
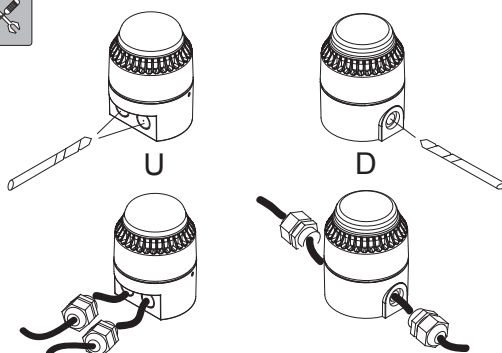
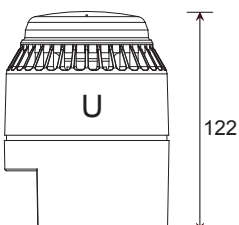
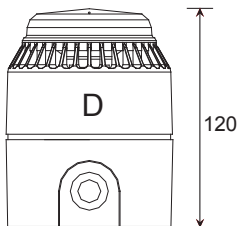
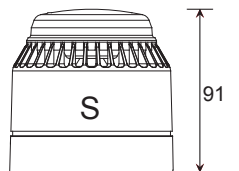
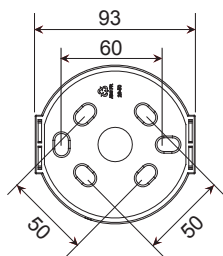
- (i) Tones certified under the CPD (Fire Alarm Applications) are shown in the column marked EN54-3
(ii) All other SPL measurements are taken 'on axis' & are not third party verified.
(iii) Detailed EN54-3 polar SPL measurements are available in M05-014
(iii) A SPL of at least 65dB(A) is achieved in at least one direction at minimum volume/voltage.
- (i) Les tons certifiés dans le cadre de la DPC (application alarme incendie) sont indiqués dans la colonne intitulée EN54-3. NPA sont relevées « sur axe » et ne sont pas vérifiées par un tiers.
(ii) Toutes les autres mesures NPA polaires détaillées EN54-3 sont disponibles dans M05-014
(iii) Les mesures N
- (i) Die nach CPD (Feuermelderanwendung) zertifizierten Töne sind in Spalte EN54-3.
(ii) Alle anderen Schalldruckmessungen wurden vom akustischen Mittelpunkt ab gelesen und von keiner unabhängigen Stelle verifiziert.
(iii) Detaillierte Polar-SPL-Messungen gemäß EN54-3 sind erhältlich in M05-014
- (i) I toni della sirena certificati CPD (applicazione allarme antincendio) sono indicate nella colonna contrassegnata con EN54-3.
(ii) Tutte le altre misurazioni SPL sono state rilevate "sull'asse" e non sono state verificate da terzi.
(iii) Le misurazioni SPL polari ai sensi della norma EN54-3 sono disponibili in M05-014
- (i) U vindt tonen die onder CPD (brandalarmtoepassing) zijn gecertificeerd, in de kolom waar EN54-3 staat vermeld.
(ii) Alle andere SPL-afmetingen zijn via de 'as' gedaan en niet door derden geverifieerd.
(iii) Uitgebreide polaire SPL-afmetingen voor EN54-3 zijn beschikbaar in M05-014

- (i) Los sonidos certificados por el CPD (aplicación para alarmas de incendios) se muestran en la columna marcada con EN54-3.
(ii) Cualquier otra medida del SPL (nivel de intensidad acústica) se toma "sobre el eje" y no está verificada por terceras partes.
(iii) Las medidas detalladas del SPL polar EN54-3 están disponibles en M05-014
- (i) Signaler som är certifierade för CPD (brandvarnare) visas i kolumnen märkt EN54-3.
(ii) Alla övriga mätningar av ljudtrycket har genomförts "direkt intill" och är inte bekräftade av tredje part.
(iii) Detaljerade polära mätningar av ljudtrycket enligt EN54-3 finns under M05-014

- (i) Sygnaly tonowe zgodne z certyfikatem CPD dla systemów sygnalizacji pożaru wskazane są w kolumnie EN54-3.
(ii) Wszystkie pomiary SPL są wykonane w osi sygnalizatora i nie były poddane weryfikacji przez inną stronę.
(iii) Szczegóły pomiarów kątowych SPL wg EN54-3 dostępne są w M05-014.

CE marking under the CPD was affixed on: (see batch code on product)
La marque CE dans le cadre de la DPC a été apposée le : (voir code de lot sur le produit)
CE-Kennzeichnung unter dem CPD angebracht am: (siehe Chargencode am Erzeugnis).
La marcatura CE ai sensi della direttiva CPD è stata apposta su: (vedi codice sul prodotto)
CE-markering onder CPD is toegewezen d.d.: (zie batchcode op het product)
CE-märkning enligt CPD fästes på: (se satskod på produkten)
Oznakowanie CE i CPD zostało naniesione na produktu.





Example of Tone 3 setting

Example of 10-bit setting

1

High
Level
Low
Vol

1	1	1	1	1	0	1
1	2	3	4	5	6	

ON CIT

ON						CIT
1	2	3	4	5	6	

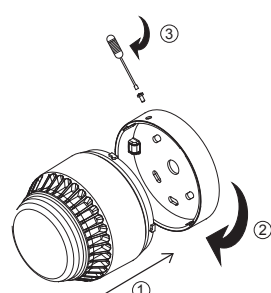
2

High
Level
Low
Vol

1	1	1	1	0	1
V	1	2	3	4	5

ON CIT

ON					CIT
Vol	1	2	3	4	5



							Main Application	12V @20 c°			24V @20 c°			
				Pattern	Frequency Hz	Rate		Depiction	mA	dB(A)		mA	dB(A)	EN54-3
														Min SPL @ 28Vdc @ Max Volume @ Loudest note (dB)
1	14	11111	Alternating	800 & 970	2Hz (250ms-250ms)		BS Fire	86	91		68	100	*	
2	14	11110	Sweep	800 to 970	7Hz (7/s)		BS Fire	86	93		68	101	-	
3	14	11101	Sweep	800 to 970	1Hz (1/s)		BS Fire	86	95		68	101	-	
4	14	11100	Continuous	2850	Steady		General Purpose	93	95		82	110	-	
5	4	11011	Sweep	2400 to 2850	7Hz		General Purpose	94	101		80	110	-	
6	4	11010	Sweep	2400 to 2850	1Hz		General Purpose	92	104		80	110	-	
7	14	11001	Slow whoop	500 to 1200	3s sweep, 0.5 s silence, then repeat		Dutch fire (NEN 2575)	84	95		70	98	-	
8	14	11000	Sweep (DIN)	1200 to 500	1Hz		German fire (DIN 33 404)	87	94		66	98	94	
9	4	10111	Alternating	2400 & 2850	2Hz (250ms-250ms)		General Purpose	92	95		80	109	-	
10	14	10110	Intermittent	970	0.5Hz (1s On/1s Off)		PFEER alert	85	92		62	100	-	
11	14	10101	Alternating	800 & 970	1Hz (500ms-500ms)		BS Fire	85	92		68	100	-	
12	4	10100	Intermittent	2850	0.5Hz (1s On/1s Off)		General Purpose	88	95		74	108	-	
13	14	10011	Intermittent	970	0.8Hz (250ms On/1s Off)		General Purpose	83	91		58	96	-	
14	14	10010	Continuous	970	Steady		PFEER toxic gas	85	92		70	101	-	
15	14	10001	Alternating	554 & 440	100ms-400ms		French fire (NFS 32-001)	87	93		62	93	-	
16	16	10000	Intermittent	660	3.3Hz (150ms On/150ms Off)		Swedish (Air Raid)	84	92		59	86	-	
17	17	01111	Intermittent	660	0.28Hz(1.8s On/1.8s Off)		Swedish (Local warning)	84	93		62	88	-	
18	18	01110	Intermittent	660	0.05Hz (13s Off / 6.5Hz On)		Swedish (Pre-mess)	85	93		64	88	-	
19	19	01101	Continuous	660	Steady		Swedish (All clear)	84	93		64	89	-	
20	20	01100	Alternating	554 & 440	0.5Hz (1s On/1s Off)		Swedish (Turn out)	86	93		63	96	-	
21	21	01011	Intermittent	660	1Hz (500ms-500ms)		Swedish general purpose	84	92		60	100	-	
22	14	01010	Intermittent	2850	4Hz (150ms On/100ms Off)		Pelican crossing	90	94		72	109	-	
23	14	01001	Sweep	800 to 970	50Hz		BS Fire	85	92		68	101	-	
24	4	01000	Sweep	2400 to 2850	50Hz		General Purpose	93	101		75	110	-	
25	25	00111	Intermittent	970	3 x 500ms pulses, 1.5s silence, then repeat		ISO 8201	83	92		64	99	-	
26	26	00110	Intermittent (1*)	800 to 970	3 x 500ms pulsed sweep, 1.5s silence, then repeat		ISO 8201	84	94		70	108	-	
27	27	00101	Intermittent (1*)	970 & 800	3 x 500ms pulsed sweep, 1.5s silence, then repeat		ISO 8201	83	91		85	83	-	
28	10	00100	Alternating	800 & 970	2Hz (250ms-250ms)		BS Fire	86	91		67	100	-	
29	988Hz	00011	Alternating	890 & 650	2Hz (250ms-250ms) (Symphoni tones)		BS Fire	87	95		71	99	-	
30	510Hz	00010	Alternating	510 & 610	2Hz (250ms-250ms) (Squashni Micro tones)		BS Fire	86	91		65	96	-	
31	14	00001	Sweep	300 to 1200	1Hz		General Purpose	87	95		71	96	-	
32	510Hz	00000	Alternating	510 & 610	1Hz (500mS-500mS)		BS Fire	86	92		85	83	-	

- (i) Tones certified under the CPD (Fire Alarm Applications) are shown in the column marked EN54-3.
- (ii) All other SPL measurements are taken 'on axis' & are not third party verified.
- (iii) Detailed EN54-3 polar SPL measurements are available in M05-014
- (iii) A SPL of at least 65dB(A) is achieved in at least one direction at minimum volume/voltage.
- (i) Les tons certifiés dans le cadre de la DPC (application alarme incendie) sont indiqués dans la colonne intitulée EN54-3. NPA sont relevées « sur axe » et ne sont pas vérifiées par un tiers.
- (ii) Toutes les autres mesures NPA polaires détaillées EN54-3 sont disponibles dans M05-014
- (iii) Les mesures N
- (i) Die nach CPD (Feuermelderanwendung) zertifizierten Töne sind in Spalte EN54-3.
- (ii) Alle anderen Schalldruckmessungen wurden vom akustischen Mittelpunkt ab gelesen und von keiner unabhängigen Stelle verifiziert.
- (iii) Detaillierte Polar-SPL-Messungen gemäß EN54-3 sind erhältlich in M05-014
- (i) I toni della sirena certificati CPD (applicazione allarme antincendio) sono indicate nella colonna contrassegnata con EN54-3.
- (ii) Tutte le altre misurazioni SPL sono state rilevate "sull'asse" e non sono state verificate da terzi.
- (iii) Le misurazioni SPL polari ai sensi della norma EN54-3 sono disponibili in M05-014
- (i) U vindt tonen die onder CPD (brandalarmtoepassing) zijn gecertificeerd, in de kolom waar EN54 staat vermeld.
- (ii) Alle andere SPL-metingen zijn via de 'as' gedaan en niet door derden geïnterveerd.
- (iii) Uitbreide polaire SPL-metingen voor EN54-3 zijn beschikbaar in M05-014

- (i) Los sonidos certificados por el CPD (aplicación para alarmas de incendios) se muestran en la columna marcada con EN54-3.
 - (ii) Cualquiera otra medida del SPL (nivel de intensidad acústica) se toma "sobre el eje" y no está verificada por terceras partes.
 - (iii) Las medidas detalladas del SPL polar EN54-3 están disponibles en M05-014
-
- (i) Signaler som är certifierade för CPD (brandvarnare) visas i kolumnen märkt EN54-3.
 - (ii) Alla övriga mätningar av ljudtrycket har genomförts "direkt intill" och är inte bekräftade av tredje part.
 - (iii) Detaljerade mätningar av ljudtrycket enligt EN54-3 finns under M05-014

- (i) Sygnały tonowe zgodne z certyfikatem CPD dla systemów sygnalizacji pożaru wskazane są w kolumnie EN54-3.
(ii) Wszystkie pomiary SPL są wykonane w osi sygnalizatora i nie były poddane weryfikacji przez inną stronę.
(iii) Szczegóły pomiarów katowych SPL wg EN54-3 dostępne są w M05-014.

CE marking under the CPD was affixed on: (see batch code on product)
 La marque CE dans le cadre de la DPC a été apposée le : (voir code de lot sur le produit)
 CE-Kennzeichnung unter dem CPD angebracht am: (siehe Chargencode am Erzeugnis).
 La marcatura CE ai sensi della direttiva CPD è stata apposta su: (vedi codice sul prodotto)
 CE-markering onder CPD is toegevoegd n.d.: (zie batchcode op het product)
 CE-märkning enligt CPD fästes på: (se satskod på produkten)
 Oznakowanie CE j CPD zostało naniesione na produkту.