

LIBRA+	COLOUR	NUMBER OF TUNES AVAILABLE	TUNE NAMES	BATTERIES	SOUND LEVEL dB@1m
D913 100m Silver Wirefree Portable Chime Kit	Silver	3	Ding-Dong, St. Clements, Westminster	Chime: 3 x LR6 (AA) Push: 1 x CR2032 Lithium inc.	80
D914 200m Silver Wirefree Portable Chime Kit	Silver	6	Ding-Dong, St. Clements, Westminster, Tube Chime, Warm Brass, Fantasy	Chime: 4 x LR14 (C) Push: 1 x CR2032 Lithium inc.	90
D917 200m Silver Wirefree Portable Chime	Silver	6	Ding-Dong, St. Clements, Westminster, Tube Chime, Warm Brass, Fantasy	Chime: 4 x LR14 (C)	90

ADDITIONAL INFORMATION: Operating frequency for all Libra+ is 868MHz. Operating temperature range for all chimes is 0°C to + 30°C. Operating temperature range for all pushes is -10°C to + 40°C. All Libra+ chimes are packed in containers of 4 units. All Libra+ pushes come in standard packs of 6 units. Design of Friedland products may be subject to change without prior notice.

EVO+	COLOUR	NUMBER OF TUNES AVAILABLE	TUNE NAMES	BATTERIES	SOUND LEVEL dB@1m
D3001 Evo+ 150m Wirefree Portable White Door Chime Kit	White	2	Ding Dong, Basclarinet	Chime: 3 x LR6(AA)Push: 1 x CR2032 Lithium inc	72
D3002UK Evo+ 150m Wirefree Plug-in White Door Chime Kit	White	2	Ding Dong, Basclarinet	Push: 1 x CR2032 Lithium inc	72
D3003 Evo+ 150m Wirefree White Door Chime Kit	White	4	Ding Dong, Flute 3, Minibell 2 note, Flugelhorn	Chime: 3 x LR6(AA)Push: 1 x CR2032 Lithium inc	82
D3006UK Evo+ 150m Wirefree Plug-in White Door Chime Kit	White	4	Ding Dong, Flute 3, Minibell 2 note, Flugelhorn	Push: 1 x CR2032 Lithium inc	82
D3004 Evo+ 150m Wirefree Portable Black Door Chime Kit	Black	4	Ding Dong, Flute 3, Minibell 2 note, Flugelhorn	Chime: 3 x LR6(AA)Push: 1 x CR2032 Lithium inc	82
D3005 Evo+ Wirefree Portable Metal Door Chime Kit	Metal	4	Ding Dong, Flute 3, Minibell 2 note, Flugelhorn	Chime: 3 x LR6(AA)Push: 1 x CR2032 Lithium inc	82
D3007 Evo+ Wirefree Portable Glossy White Door Chime Kit	Glossy White	6	Ding Dong, Flute 3, Minibell 4 note, Big Ben 2 note, Altosax, Bird 1	Chime: 3 x LR6(AA)Push: 1 x CR2032 Lithium inc	82
D3010UK Evo+ Wirefree Plug-in Glossy White Door Chime Kit	Glossy White	6	Ding Dong, Flute 3, Minibell 4 note, Big Ben 2 note, Altosax, Bird 1	Push: 1 x CR2032 Lithium inc	82
D3008 Evo+ Wirefree Portable Glossy Black Door Chime Kit	Glossy Black	6	Ding Dong, Flute 3, Minibell 4 note, Big Ben 2 note, Altosax, Bird 1	Chime: 3 x LR6(AA)Push: 1 x CR2032 Lithium inc	82
D3009 Evo+ Wirefree Glossy Metal Portable Door Chime Kit	Glossy Metal	6	Ding Dong, Flute 3, Minibell 4 note, Big Ben 2 note, Altosax, Bird 1	Chime: 3 x LR6(AA)Push: 1 x CR2032 Lithium inc	82
D3100UK Evo+ Home and Garden Kit	White	4	Ding Dong, Flute 3, Minibell 2 note, Flugelhorn	Portable Chime: 3 x LR6(AA) Push: 1 x CR2032 Lithium inc	82
D3110 Evo+ Front and Back Door Kit	White	4	Ding Dong, Flute 3, Minibell 2 note, Flugelhorn	Chime: 3 x LR6(AA)Push: 1 x CR2032 Lithium inc	82
D3120 Evo+ Chime and PIR Kit	White	6	Ding Dong, Flute 3, Minibell 4 note, Big Ben 2 note, Altosax, Bird1	Chime: 3 x LR6(AA)Push: 1 x CR2032 Lithium inc PIR: 1 x 9V PP3 Alkaline	82
D3200N Evo+ Wirefree PIR	White			PIR: 1 x 9V PP3 Alkaline	

DÉCOR	COLOUR	NUMBER OF TUNES AVAILABLE	TUNE NAMES	BATTERIES	SOUND LEVEL dB@1m
D500 Symphony	Beech/Chrome	3	Big Ben 8 note, Big Ben 4 note, Big Ben 2 note, Big Ben 1 note Mini Bell 2 note, Mini Bell 4 note echo, Altosax	Chime: 4 x LR14 (C) Push: 1 x CR2032 Lithium inc.	78/80
D503 Fantasia	White	6	Joy To The World, We Wish You a Merry, Christmas, Auld Lang Syne – New Year, Happy Birthday, Hail! Hail! The Gang's All Here, Greensleeves, Mozart's Sonata in C, Beethoven 5th, Minuet in C, Blue Danube, Star Spangled Banner – USA, God Save the Queen – UK, La Marseillaise – France, Deutschlandlied – Germany, O Canada, Twinkle Twinkle Little Star, Three Blind Mice, Pop Goes the Weasel, Row Row Row Your Boat, Cradle Song, Ding, Ding Dong, Westminster 4 note, Westminster Echo	Chime: 3 x LR14 (C) Push: 1 x CR2032 Lithium inc.	78/80

ADDITIONAL INFORMATION: Operating radio frequency for all Décor products is 433MHz. Operating temperature range for all Chimes is 0°C to +30°C. Operating temperature range for all Pushes is -10°C to +50°C. All Décor products come in standard packs of 2 units.

*** Sound levels are measured in free field conditions. Design of Friedland products may be subject to change without prior notice.

EVO+ AND DÉCOR EXTENDER/ ONVERTER	COLOUR	BATTERIES
D3202N Evo+ Wirefree Converter/ extender	White	EXTENDER/CONVERTER 1 x CR2032 Lithium coin cell battery (included)

EVO+ AND DÉCOR WIREFREE PUSHES	COLOUR	BATTERIES
D3203N Evo+ Wirefree Slimline White Push	White	Push: 1 x CR2032 Lithium inc
D3204N Evo+ Wirefree Solid Brass Push	Brass	Push: 1 x CR2032 Lithium inc

ADDITIONAL INFORMATION: Operating radio frequency for all Evo+ and Décor products is 433MHz. Operating temperature range for all Chimes is 0°C to +30°C. Operating temperature range for all Pushes is -10°C to +50°C. All Décor products come in standard packs of 4 units.

MINI WIRED CHIMES	COLOUR	NUMBER OF TUNES	TUNE NAMES	BATTERIES	TRANSFORMERS	SOUND LEVEL dB@1m***	MAX POWER VA/W
D846 Oakland	White	2	3 Note Gong	Chime: 3 x 1.5v LR6 (AA)	D753 or D780	75	2W
D142 Atlanta	White	1	Ding-Dong	Chime: 4 x 1.5v LR6 (AA)	D753 or D780	75	8VA
D143 Denver	White	1	Ding-Dong	Chime: 4 x 1.5v LR6 (AA)	D753 or D780	75	8VA

CHIMES, BELLS, BUZZERS AND KITS	VOLTAGE	SIGNAL 1	SIGNAL 2	BATTERIES	FRIEDLAND TRANSFORMER	MAX POWER VA/W	SOUND LEVEL dB@1m MAX.	SOUND FREQUENCY NOTE 1 HZ	SOUND FREQUENCY NOTE 2 HZ
D107 Facet	6V DC/8V AC	2-Note		4 x R14/C	D753 or D780	6 W	80	740	587
D113 Surf	6V DC/8V AC	2-Note		4 x R14/C	D753 or D780	6 W	80	740	587
D117 Ding Don	6V DC/8V AC	2-Note		4 x R14/C	D753 or D780	6 W	80	740	587
D230 Big Ben	6V DC/8V AC	2-Note	1-Note	4 x R14/C	D753 or D780	6 W	80	740	587
D239 Bandera	6V DC/8V AC	2-Note	1-Note	4 x R14/C	D753 or D780	6 W	80	740	587
D454 Warbler	6V DC/8V AC	Warbling	1-Note	4 x R14/C	D753 or D780	6 W	87	740	587
D182 Minibuzzer	8V AC	Buzzer		n/a	D743 or D770		80		
D422 Surf Kit	6V DC/8V AC	2-Note		4 x R14/C	D753 or D780	6 W	80	740	587
D424 Facet Kit	6V DC/8V AC	2-Note		4 x R14/C	D753 or D780	6 W	80	740	587
D792 Underdome	8V AC	Bell		n/a	D743 or D770		85		
D902 Bell-in-One	3V DC	Bell		2 x R20/D	n/a		80		
D973 Bell Kit	3V DC	Bell		2 x R20/D	n/a		80		
D128 Hockey Chime	6V DC/8V AC	2-Note		4 x R14/C	D753 or D780	6 W	80	740	587

MAINS VOLTAGE CHIMES WITH BUILT-IN TRANSFORMERS	VOLTAGE	SIGNAL 1	MAX POWER VA/W	SOUND LEVEL dB@1m MAX.	SOUND FREQUENCY NOTE 1 HZ	SOUND FREQUENCY NOTE 2 HZ
D3126 Festival (incl. Transformer)	220-240V AC 50Hz	2-Note	15W	80	740	587
D3230 Big Ben (incl. Transformer)	220-240V AC 50Hz	2-Note	15W	80	740	587

PUSHES		LIGHTED	SPARE LAMP	FINISH	SPARE BUTTON
D534 Lightspot		Yes	D70 (See Note)		D6431
D534WE Lightspot		Yes	D70 (See Note)		D6431
D611 Gem					
D620 Elite	16mm hole req.			Brass	
D622 Ducat				Brass	
D624E Halo		Yes		Brass	D6432
D639 Mesa	16mm hole req.	Yes			
D642 Button	16mm hole req.				
D6421 Button	16mm hole req.				
D664 Medallion	16mm hole req.	Yes		Brass	D6432
D667 Benton	16mm hole req.	Yes		Brass	
D669 Legion	16mm hole req.			Brass	
D723W Pushlite		Yes	D70 (See Note)		
D814 Sesame					
D824 Dimex					
D1053 Door Contact					

Note: Spare lamps fit older versions only The lamp is inside the button on new models. For clarification, check product.

TRANSFORMERS	SWITCH	MOUNTING TYPE	PRIMARY	SECONDARY
D743 Transformer	No	Surface	220-240V 50Hz	8V 0.5A
D753 Transformer	No	Surface	220-240V 50Hz	8V 1A
D770 Transformer	No	DIN/Surface	220-240V 50Hz	8V 0.5A
D780 Transformer	No	DIN/Surface	220-240V 50Hz	8V 1A
D780S Transformer	Yes	DIN/Surface	220-240V 50Hz	8V 1A
D765 Transformer	No	DIN/Surface	220-240V 50Hz	12V 1A
E3549 Transformer	No	DIN/Surface	220-240V 50Hz	8V 1.5A
E3554N Transformer	No	DIN/Surface	220-240V 50Hz	8V 2A
E3554SN Transformer	Yes	DIN/Surface	220-240V 50Hz	8V 2A
E3538N Transformer	No	DIN/Surface	220-240V 50Hz	12V 1.5A
E3538SN Transformer	No	DIN/Surface	220-240V 50Hz	12V 1.5A
E3539N Transformer	No	DIN/Surface	220-240V 50Hz	12V 2A

WIRING CONNECTIONS	BATTERY OPERATION		TRANSFORMER OPERATION		
	PUSH 1	PUSH 2	TRANSFORMER	PUSH 1	PUSH 2
D142, D143	For use with external battery only		1 + 3	0 + 1	
D107, D113, D117, D128	1 + 2		1 + 3	0 + 1	
D230, D239	0 + 2	0 + 1	0 + 3	0 + 2	0 + 1
D426	0 + 1	0 + 2	0 + 3	0 + 1	0 + 2
454	0 + A	0 + B	0 + 3	0 + A	0 + B
D833E	0 + 1		2 + 3	0 + 1	
D902	0 + 1				
D792, D182			*	*	

*Terminals are unmarked, Push should be wired in series with Bell and Transformer. Two incoming wires are then connected to either terminal.

Useful Information – Wirefree Chimes and Pushes

- Please note that the positioning of Wirefree Bell Push or Door Chime on or near metal structures, reinforced PVC doors or door frames may reduce the transmission range
- To ensure weatherproofing is maintained, always mount Bell Pushes the correct way up, as shown in the product instructions or on the packaging. Then replace the front cover securely
- Please note that the Evo+ and Décor ranges are compatible with each other, while Libra+ will not communicate with these products
- Evo+ PIR will not work with SPECTRA wirefree receiver

Useful Information – Wired Chimes and Pushes

- Wired-in Chimes should be mounted vertically on a wall, ideally at 2 metres high, for best sound coverage
- When battery-operated, wired-in Chimes and Bells can be mounted up to a maximum of 15 metres from the push, using standard Friedland bell wire
- When transformer operated, wired-in Chimes and Bells can be mounted up to 60 metres from the Push, using standard Friedland bell wire
- D902/D973 Bell In One can be mounted up to a maximum of 9 metres from the push
- The use of wire not intended for Door Chimes/Bells (e.g. telephone wire) may affect Chime/Bell performance
- Do not mount wired-in Chimes on the back of a door, as the chime bars or batteries may dislodge if the door is slammed
- All terminal screws should be tightened down, including those which are not being used
- All wired-in Chimes can operate from either batteries or a suitable transformer
- Additional Chimes can be wired to the original Chime, to provide better sound coverage – an additional or alternative transformer may also be required
- Lit pushes must be used in conjunction with 8V output transformer only
- Mini Wired chimes cannot be wired in parallel

ADDITIONAL INFORMATION:

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Product Code	Range	Page Number
D70	Replacement Lamp	22
D107	Fixed Wall Mounted Chimes	19
D113	Fixed Wall Mounted Chimes	19
D117	Fixed Wall Mounted Chimes	19
D128	Fixed Wall Mounted Chimes	19
D142	Mini Wired Chimes	17
D143	Mini Wired Chimes	17
D182	Kits, Bells and Buzzers	20
D230	Fixed Wall Mounted Chimes	19
D239	Fixed Wall Mounted Chimes	19
D422	Kits, Bells and Buzzers	20
D424	Kits, Bells and Buzzers	20
D454	Fixed Wall Mounted Chimes	19
D500	Décor	14
D503	Décor	14
D534	Illuminated Pushes	22
D534WE	Illuminated Pushes	22
D561	Kits, Bells and Buzzers	20
D611	Pushes	21
D620	Pushes	21
D622	Pushes	21
D630	Pushes	21
D642	Pushes	21
D624E	Illuminated Pushes	22
D664	Illuminated Pushes	22
D667	Illuminated Pushes	22
D669	Pushes	21
D723W	Illuminated Pushes	22
D743	Transformers	23
D753	Transformers	23
D765	Transformers	23
D770	Transformers	23
D780	Transformers	23
D780S	Transformers	23
D792	Kits, Bells and Buzzers	20
D814	Pushes	21
D824	Pushes	21
D846	Mini Wired Chimes	17
D902	Kits, Bells and Buzzers	20
D913	Libra+	5
D914	Libra+	5
D917	Libra+	5
D930	Libra+	7
D931	Libra+	7
D935E	Libra+	6
D936	Libra+	6
D943E	Libra+	6
D973	Kits, Bells and Buzzers	20

Product Code	Range	Page Number
D1053	Pushes	21
D3001	Evo+	9
D3002UK	Evo+	9
D3003	Evo+	9
D3004	Evo+	10
D3005	Evo+	10
D3006UK	Evo+	9
D3007	Evo+	10
D3008	Evo+	11
D3009	Evo+	11
D3010UK	Evo+	10
D3100UK	Evo+ Home and Garden Kit	11
D3110	Evo+ Front and Back Door Kit	11
D3120	Evo+ Chime and PIR Kit	12
D3126	Mains Voltage Chimes	18
D3200N	Evo+ Wirefree PIR	12
D3202N	Evo+/Décor Extender/Converter	15
D3203N	Evo+/Décor Wirefree Pushes	15
D3204N	Evo+/Décor Wirefree Pushes	15
D3230	Mains Voltage Chimes	18
D6421	Pushes	21
E3538N	Transformers	23
E3538SN	Transformers	23
E3539N	Transformers	23
E3549	Transformers	23
E3554N	Transformers	23
E3554SN	Transformers	23

Friedland acknowledges the environment as a business issue. In pursuit of business successes, the company recognises the need to conduct its activities in an environmentally responsible manner.

The company is concerned with the need to find solutions to potentially adverse environmental impacts of our business activities and is committed to the prevention of pollution and a programme of continuous improvement.

The company believes that the impact its activities may have on the environment are not confined to our manufacturing processes or indeed within the confines of our site facilities. Rather they can be spread over the life cycle of a product or service, and may contribute to adverse environmental effects in a number of indirect ways. From production of raw material through to end of life disposal of a product, we aim to minimise harm to the environment in every aspect over which we have an influence.

For more information, full technical specification and downloadable installation manuals please visit www.friedland.co.uk

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