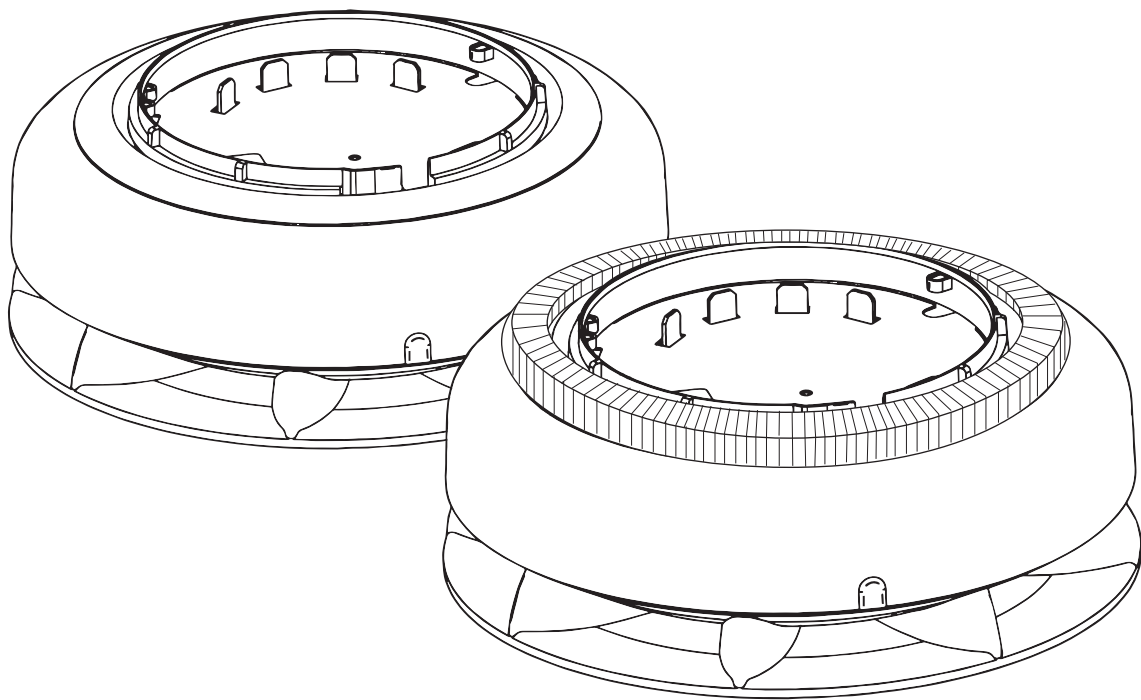


Sounder data

For combined sounder detector devices

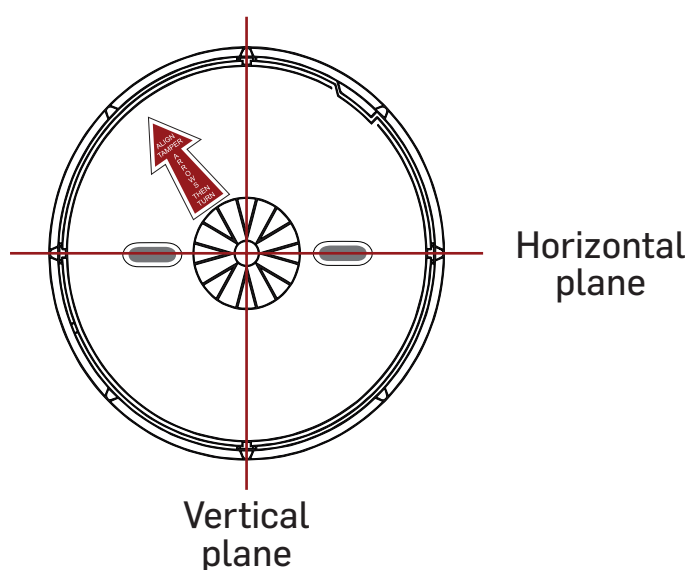


Part no	Description
FCX-191-000	Sounder/Detector Base Only
FCX-191-200	Sounder/Detector/Red Visual Indicator Base Only

For pre-2024 versions of this device with a 4-way power/sounder configuration switch, refer to the legacy version of this manual.

The following data represents the sound levels of the EN approved tones, recorded at both high and low voltages.

All levels are at high volume setting and at 30° intervals from 15° to 165° through a semi-circular arc centered at the reference point of the device for two perpendicular planes corresponding to the horizontal and vertical planes of the device in its designed position.



Note: When tested, the horizontal plane aligned with the screw holes and the vertical plane aligned with the pair of mounting plate ribs as shown.

Tone 1 - 970Hz

	Horizontal Plane dB(A) at 1 m			Vertical Plane dB(A) at 1 m		
Angle	Vmax	Vmin	Diff	Vmax	Vmin	Diff
15	87.7	87.0	0.7	96.1	95.5	0.6
45	90.7	90.0	0.7	85.8	95.2	0.6
75	95.0	94.4	0.6	94.0	93.4	0.6
105	95.4	94.7	0.7	95.0	94.4	0.6
135	89.8	89.1	0.7	93.6	93.0	0.6
165	91.6	90.9	0.7	92.9	92.3	0.6

Tone 2 - 800Hz/970Hz at 2Hz

	Horizontal Plane dB(A) at 1 m			Vertical Plane dB(A) at 1 m		
Angle	Vmax	Vmin	Diff	Vmax	Vmin	Diff
15	91.0	90.4	0.6	98.2	97.6	0.6
45	90.2	89.5	0.7	95.5	94.9	0.6
75	94.8	94.1	0.7	94.0	93.4	0.6
105	95.4	94.7	0.7	94.5	93.9	0.6
135	89.6	88.9	0.7	93.3	92.6	0.7
165	91.8	91.1	0.7	93.6	93.0	0.6

Tone 3 - 800Hz - 970Hz at 1Hz

	Horizontal Plane dB(A) at 1 m			Vertical Plane dB(A) at 1 m		
Angle	Vmax	Vmin	Diff	Vmax	Vmin	Diff
15	90.8	90.1	0.7	96.8	96.0	0.8
45	88.9	88.2	0.7	93.5	92.9	0.6
75	93.8	93.2	0.6	92.8	92.2	0.6
105	95.0	94.4	0.6	94.0	93.4	0.6
135	89.7	89.0	0.7	92.9	92.2	0.7
165	92.0	91.3	0.7	94.8	94.1	0.7

Tone 5 - 970Hz, 0.5s / 630Hz, 0.5s

Angle	Horizontal Plane dB(A) at 1 m			Vertical Plane dB(A) at 1 m		
	Vmax	Vmin	Diff	Vmax	Vmin	Diff
15	88.4	87.9	0.5	95.9	95.2	0.7
45	90.3	89.6	0.7	95.7	95.1	0.6
75	94.6	94.0	0.6	93.9	93.4	0.5
105	95.4	94.8	0.6	95.0	94.4	0.6
135	89.7	89.0	0.7	93.1	92.4	0.7
165	91.7	90.9	0.8	93.0	92.4	0.6

Tone 6 - 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001)

Angle	Horizontal Plane dB(A) at 1 m			Vertical Plane dB(A) at 1 m		
	Vmax	Vmin	Diff	Vmax	Vmin	Diff
15	87.3	86.8	0.5	94.2	93.6	0.6
45	86.2	85.7	0.5	91.5	91.1	0.4
75	90.3	89.8	0.5	90.2	89.7	0.5
105	92.0	91.5	0.5	90.1	89.6	0.5
135	87.7	87.2	0.5	90.7	90.3	0.4
165	89.3	88.8	0.5	91.4	90.9	0.5

Tone 7 - 500 - 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000)

Angle	Horizontal Plane dB(A) at 1 m			Vertical Plane dB(A) at 1 m		
	Vmax	Vmin	Diff	Vmax	Vmin	Diff
15	92.7	92.0	0.7	99.7	98.9	0.8
45	89.8	89.1	0.7	95.5	94.8	0.7
75	95.2	94.5	0.7	95.3	94.6	0.7
105	97.3	96.6	0.7	95.3	94.7	0.6
135	91.9	91.3	0.6	94.8	94.2	0.6
165	94.7	93.9	0.8	95.7	95.1	0.6

Tone 10 - 550Hz / 440Hz at 0.5Hz

	Horizontal Plane dB(A) at 1 m			Vertical Plane dB(A) at 1 m		
Angle	Vmax	Vmin	Diff	Vmax	Vmin	Diff
15	87.4	86.9	0.5	94.5	93.9	0.6
45	85.9	85.4	0.5	92.0	91.5	0.5
75	90.4	89.9	0.5	90.2	89.7	0.5
105	92.3	91.8	0.5	90.4	89.9	0.5
135	87.5	87.0	0.5	90.5	90.0	0.5
165	89.5	89.0	0.5	91.4	90.8	0.6

Tone 13 - 1200Hz - 500Hz at 1Hz (DIN 33 404)

	Horizontal Plane dB(A) at 1 m			Vertical Plane dB(A) at 1 m		
Angle	Vmax	Vmin	Diff	Vmax	Vmin	Diff
15	91.7	91.0	0.7	98.2	97.4	0.8
45	88.9	88.2	0.7	94.8	94.1	0.7
75	94.2	93.3	0.9	94.4	93.5	0.9
105	95.7	95.0	0.7	93.8	93.1	0.7
135	91.2	90.5	0.7	93.3	92.6	0.7
165	93.5	92.7	0.8	94.6	93.9	0.7

Tone 21 - 660Hz 0.15s ON / 0.15s OFF

	Horizontal Plane dB(A) at 1 m			Vertical Plane dB(A) at 1 m		
Angle	Vmax	Vmin	Diff	Vmax	Vmin	Diff
15	87.2	86.7	0.5	94.4	93.8	0.6
45	85.7	85.1	0.6	91.4	90.9	0.5
75	89.6	89.0	0.6	90.4	89.8	0.6
105	91.3	90.8	0.5	89.2	88.7	0.5
135	86.2	85.6	0.6	89.7	89.1	0.6
165	88.3	87.7	0.6	91.0	90.4	0.6

Refer to the installation guide (TSD001) for full device configuration details.

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