



New Zealand CIE Seismic Installation Instructions

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AMENDMENT LOG

15 Feb 2024	A	Original Release

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1. Introduction

1.1 Introduction and Scope

New Zealand CIE compliance with NZS 4219:2009 Seismic Performance of Engineering Systems In Buildings

To ensure all New Zealand installed Control and Indicating Equipment (CIE) comply with NZS4219:2009, all products and cabinets must be attached to the building structure in accordance with the requirements detailed in these installation instructions.

Where products and cabinets are fixed to non-structural elements of the building, such elements should be checked to verify that their load-carrying capacity is adequate by the project structural engineer.

Refer to the appropriate section of these installation instructions for details on the mounting method for various products and cabinets.

The mounting methods detailed in these installation instructions have been tested and found to comply with the relevant parts of NZ4219:2009 Seismic Performance of Engineering Systems In Buildings.

If alternative mounting methods are used these should be assessed and approved by the by the project structural engineer.

For New Zealand CIE 7 to 40Ahr seismic battery restraint use kit FP1191 and refer to LT0744 (supplied with FP1191).

For New Zealand CIE 55 to 75Ahr seismic battery restraint use kit FP1192 and refer to LT0745 (supplied with FP1192).

2. JCI 19" Rack Cabinets

2.1 JCI 28U & 40U 19" Rack Cabinet Mounting

1.1.1 28U 19" Rack Cabinet Mounting

Cabinet Mounting Holes - 6 x Ø6.5 dimpled holes, spaced 415mm horizontally and 515mm vertically apart.

Use 6 flange head Gauge 14 x 50mm Wood Screws with M6 flat washers secured into side grain of dry radiata pine framing timber.

2.1.1 40U 19" Rack Cabinet Mounting

Cabinet Mounting Holes - 8 x Ø6.5 dimpled holes, spaced 415mm horizontally and 515mm and 533mm vertically apart.

Use 8 flange head Gauge 14 x 50mm Wood Screws with M6 flat washers secured into side grain of dry radiata pine framing timber NZ MX1 Panels

3. MX1 NZ Panels

3.1 Slimline MX1 Panel & Remote FBP Mtg, FP0893 & FP1009

Cabinet mounting holes – 4 x Ø5.0 holes drilled in a side wall of the cabinet.

Use 4 flange head 10 Gauge x 30mm long wood screws secured into side grain of dry radiata pine framing timber.

Mounting holes located in the cabinet side wall must be a min of 25mm from all cabinet edges and have a min vertical spacing of 450mm.

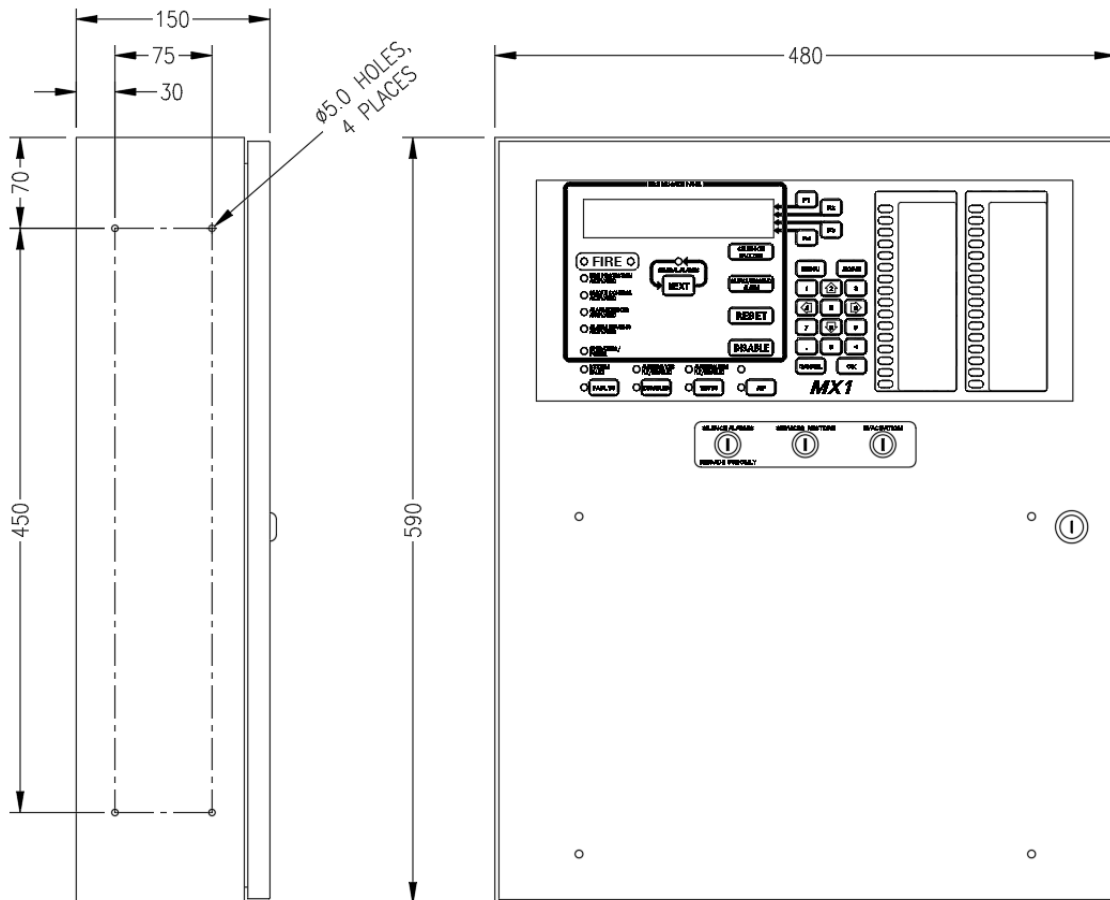


Figure 1 – Possible MX1 Slimline Panel & Remote FBP mounting hole pattern

3.2 MX1 15U Panel Mounting, FP1010

Cabinet mounting holes – 4 x Ø9.0 key holes in the rear wall of the cabinet.

Use 4 flange head with 14 Gauge x 35mm wood screws secured into side grain of dry radiata pine framing timber.

Mounting holes spaced 415mm horizontally and 450mm vertically apart.

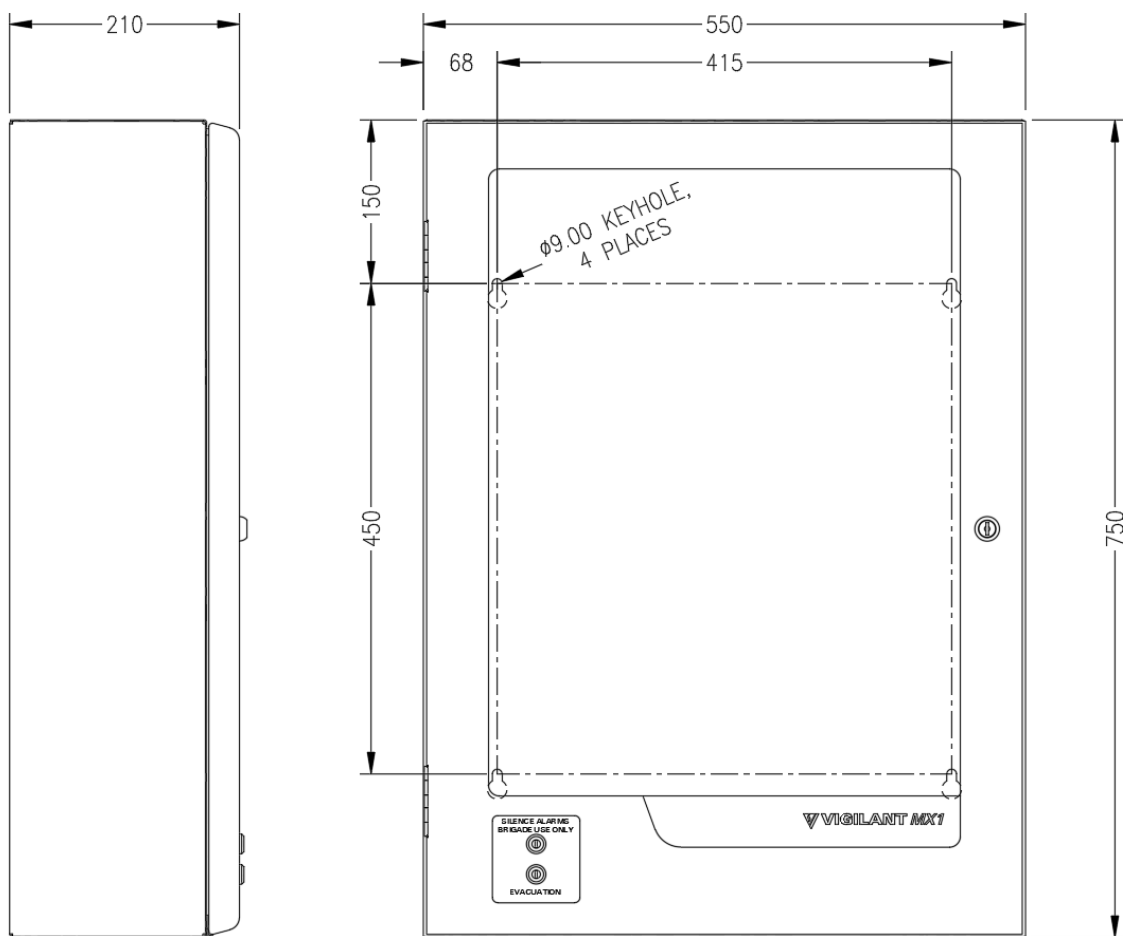


Figure 2 –MX1 15U Panel mounting hole pattern

4. Sigma 5 Panel

4.1 Sigma 5 R/S & F/S Panels Mounting, FP0759 & FP0760

Cabinet mounting holes – 2 x Ø5.0 holes drilled in a side wall of the cabinet.

Use 2 flange head 10 Gauge x 30mm long wood screws secured into side grain of dry radiata pine framing timber.

Mounting holes located in the cabinet side wall must be a min of 40mm from all cabinet edges and have a min vertical spacing of 250mm.

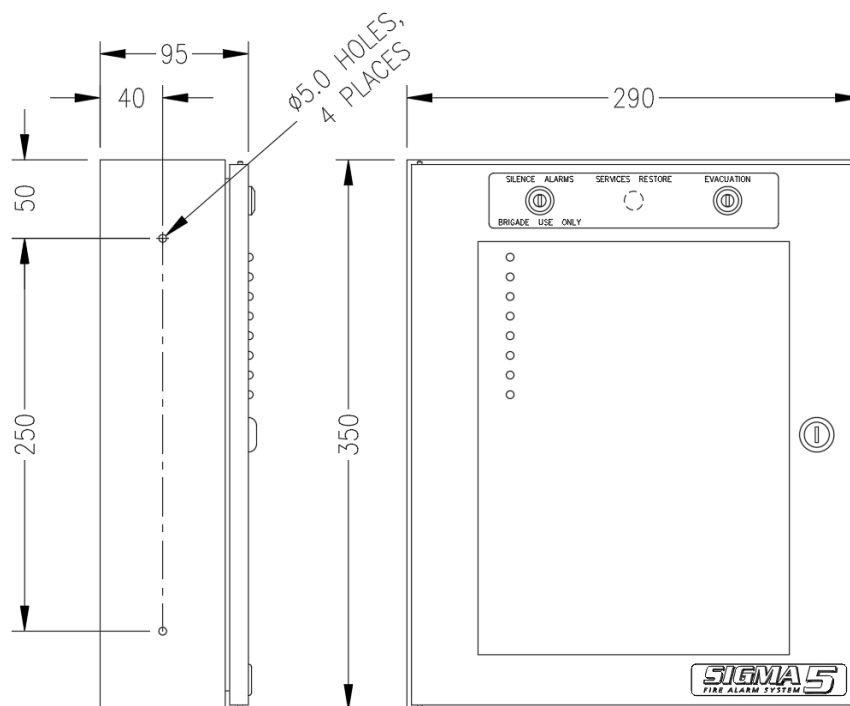


Figure 3 – Possible Sigma 5 Panel mounting hole pattern (F/S shown)

5. FP1600 Panel

5.1 FP1600 F/S & R/S Panels Mounting, FP0547 & FP0548

Cabinet mounting holes – 4 x Ø5.0 holes drilled in a side wall of the cabinet.

Use 4 flange head 10 Gauge x 35mm long wood screws secured into side grain of dry radiata pine framing timber.

Mounting holes located in the cabinet side wall must be a min of 20mm from all cabinet edges and have a min vertical spacing of 400mm.

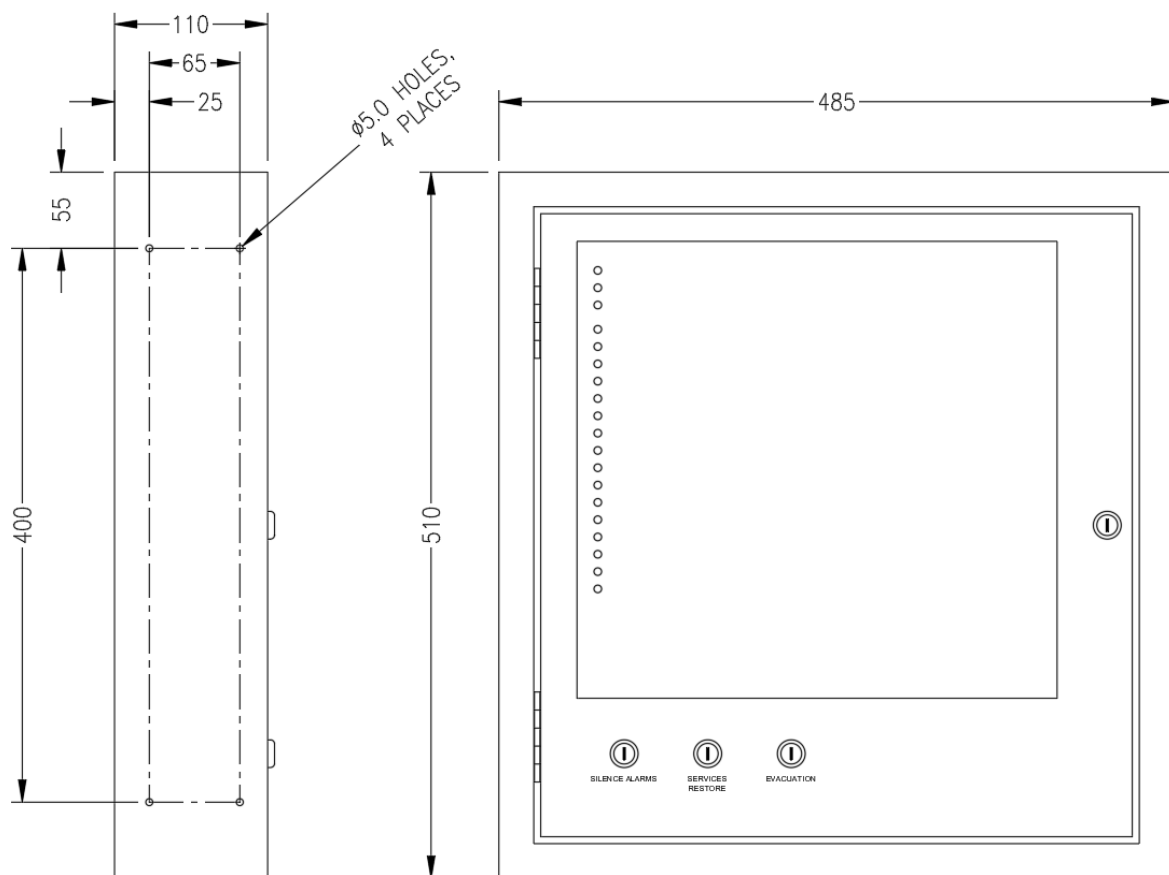


Figure 4 – Possible FP1600 Panel mounting hole pattern (F/S shown)

6. MX1 Remote Slimline Fire Brigade Panel

6.1 MX1 Remote Slimline FBP Mounting, FP0991

Mounting holes - two Ø5.0 holes drilled in the rear wall of the enclosure.

Use 2 flange head 6 Gauge x 25mm long wood screws secured into side grain of dry radiata pine framing timber, in diagonal corners.

Mounting holes spaced 150mm vertically and 200mm horizontally.

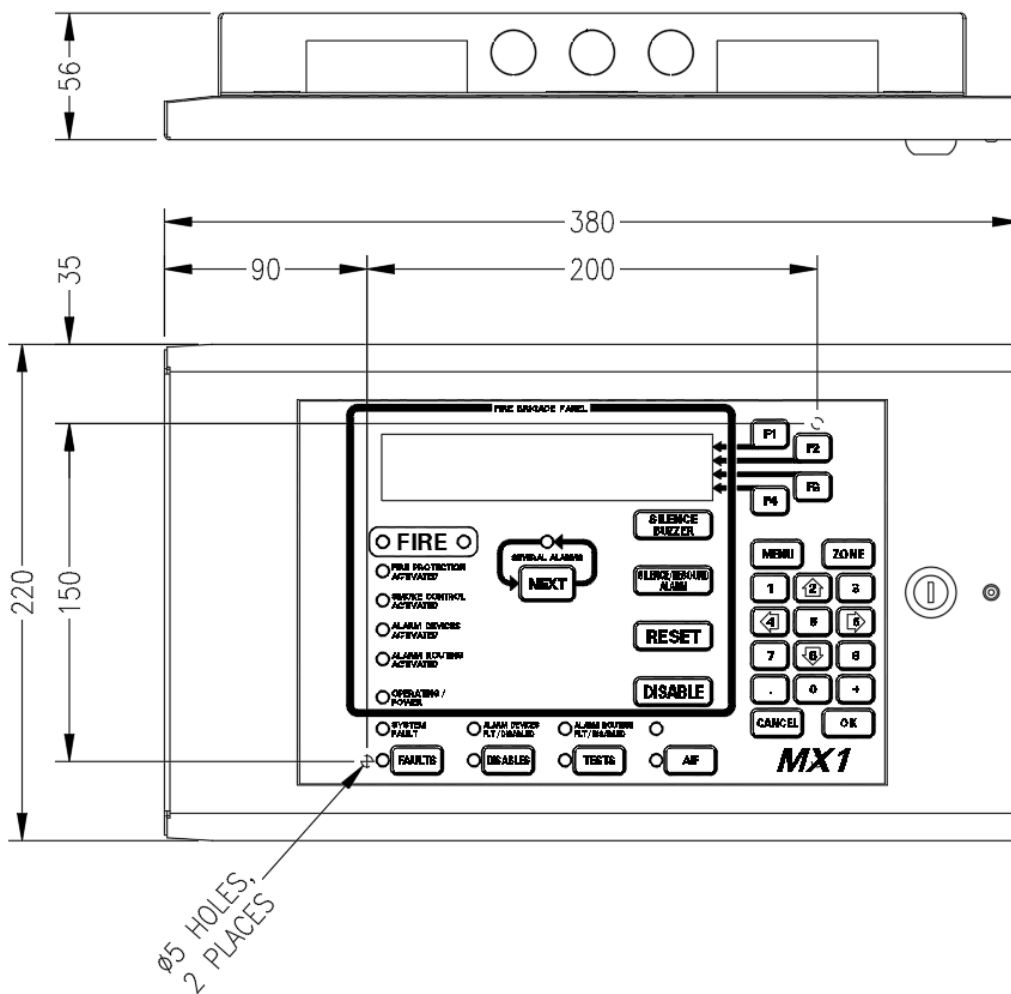


Figure 5 – Remote Slimline FBP mounting hole pattern

7. Compact FF and Nurse Station Annunciator

7.1 Compact FF & NSA Mounting, FP0865 and FP0881

Cabinet mounting holes - 4 x Ø6.0 dimpled holes.

Use a min of 2 flange head 8 Gauge x 25mm wood screws secured into side grain of dry radiata pine framing timber, in diagonal corners.

Mounting holes spaced 98mm vertically and 180mm horizontally.

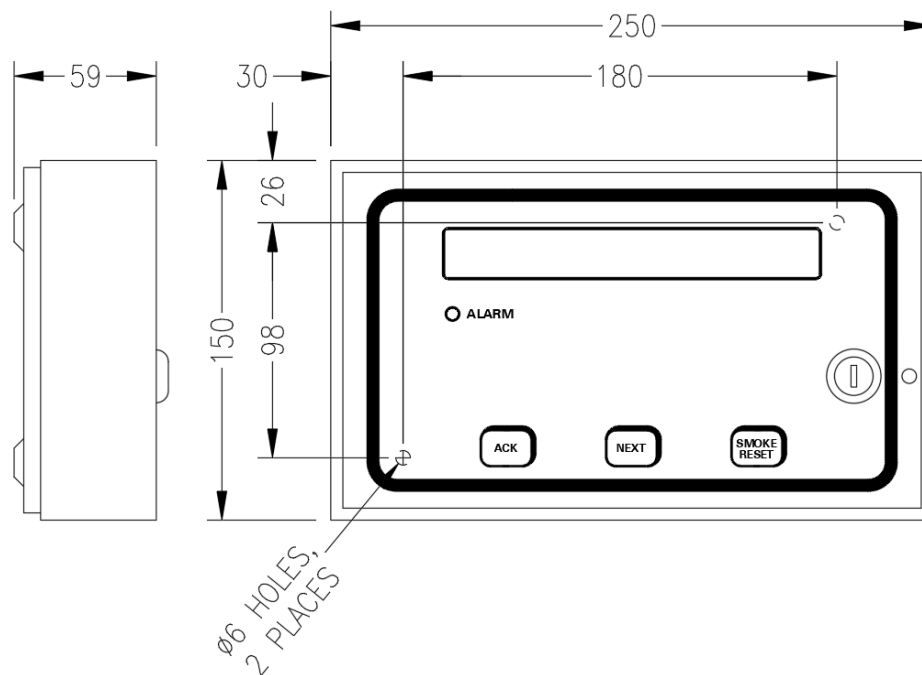


Figure 6 – NSA mounting hole pattern.

8. ASE Mk2 Dual Cat-M1

8.1 ASE Mk2 Dual Cat-M1 & 4G Mounting, FP1168 & FP1175

Mounting holes – 2 x $\text{Ø}4.0$ holes (one hole and one keyhole) in the rear wall of the cabinet.

Use 2 flange head 8 Gauge x 25mm long wood screws secured into side grain of dry radiata pine framing timber, in diagonal corners.

Mounting holes spaced 180mm vertically and 280mm horizontally.

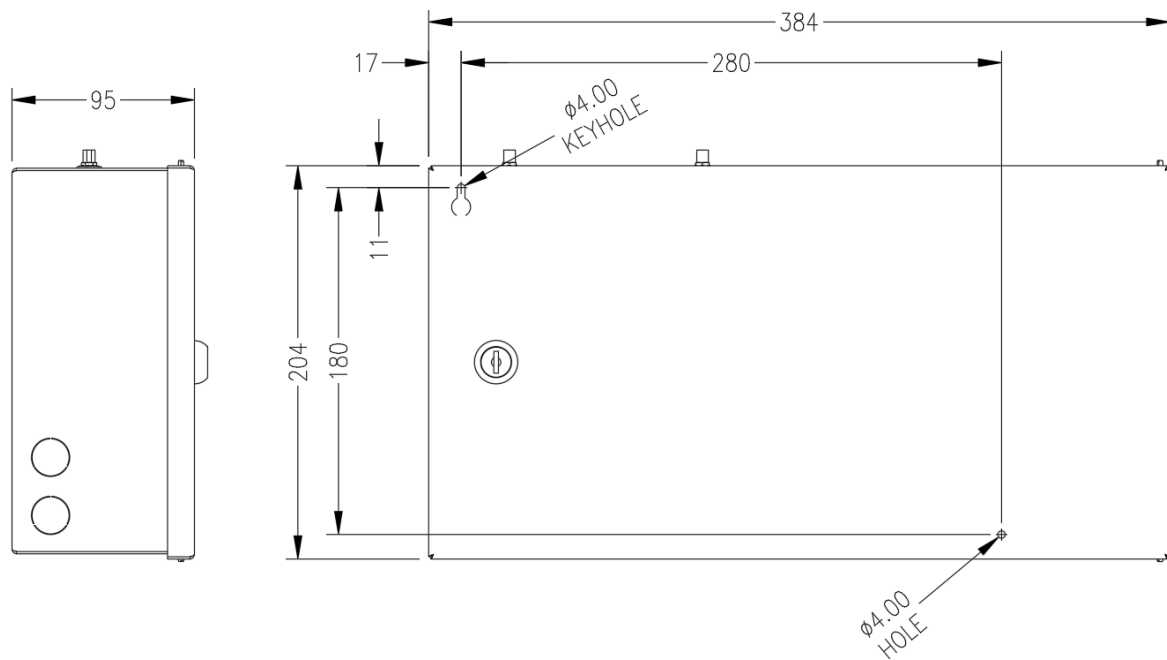


Figure 7 – ASE Mk2 Dual Cat-M1 & 4G mounting hole pattern

9. AVI Mk2

9.1 AVI Mk2 Mounting, FP0853

Mounting holes – 4 x Ø6.5 dimpled holes in the rear wall of the back plate.

Use a min of 2 flange head with 8 Gauge x 25mm long wood screws secured into side grain of dry radiata pine framing timber, in diagonal corners.

Mounting holes spaced 160mm vertically and 280mm horizontally.



Figure 8 – AVI Mk2 mounting hole pattern.

10. Picture Frame Display Mk2

10.1 Picture Frame Display Mk2 Mounting, FP0967

Cabinet mounting holes – 2 x Ø5.0 holes drilled in the side wall of the cabinet.

Use 2 flange head 10 Gauge 35mm long wood screws secured into side grain of dry radiata pine framing timber.

Mounting holes located in the cabinet side wall must be a min of 20mm from all cabinet edges and have a min vertical spacing of 300mm.

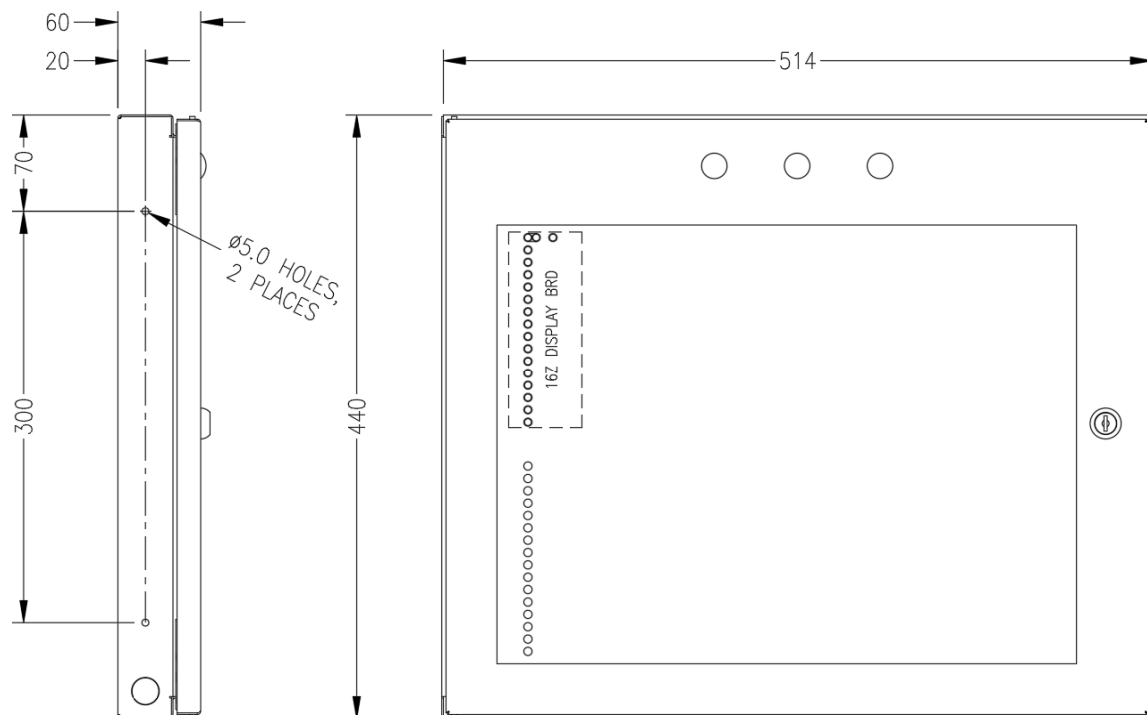


Figure 9 – PFD Mk2 mounting hole pattern.

11. AS4428 Network Display Unit (NDU)

11.1 NDU Mounting, FP0791

Cabinet mounting holes – 4 x Ø6.5 dimpled holes in the rear wall of the cabinet.

Use a min of 2 flange head 8 Gauge 25mm long wood screws secured into side grain of dry radiata pine framing timber, in diagonal corners.

Mounting holes spaced 125mm vertically and 329mm horizontally.

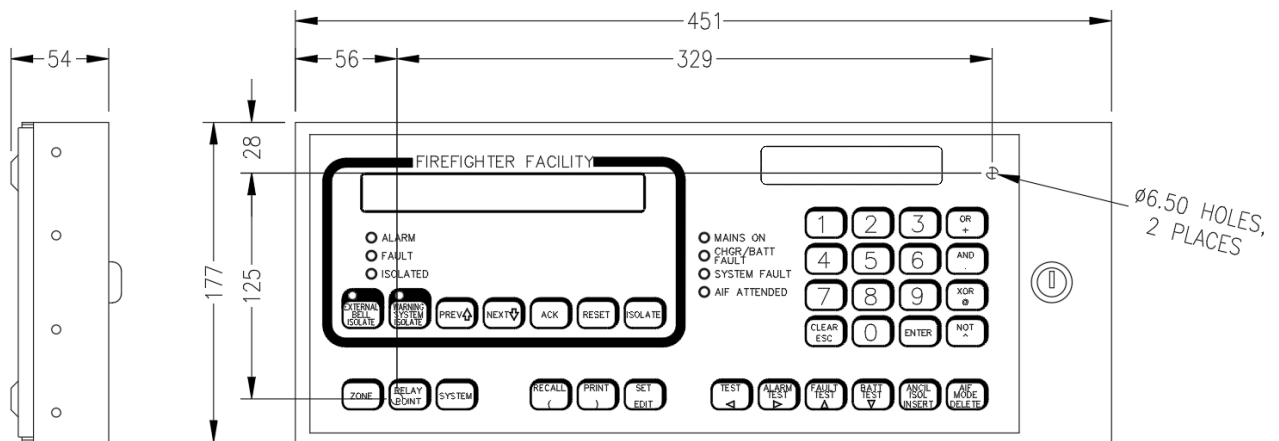


Figure 10 – NDU mounting hole pattern

12. T-Gen2 15U Panel

12.1 T-Gen2 15U Panel Mounting, FP1129

Cabinet mounting holes – 4 x Ø9.0 key holes in the rear wall of the cabinet.

Use 4 flange head with 14 Gauge x 35mm wood screws secured into side grain of dry radiata pine framing timber.

Mounting holes spaced 415mm horizontally and 450mm vertically apart.

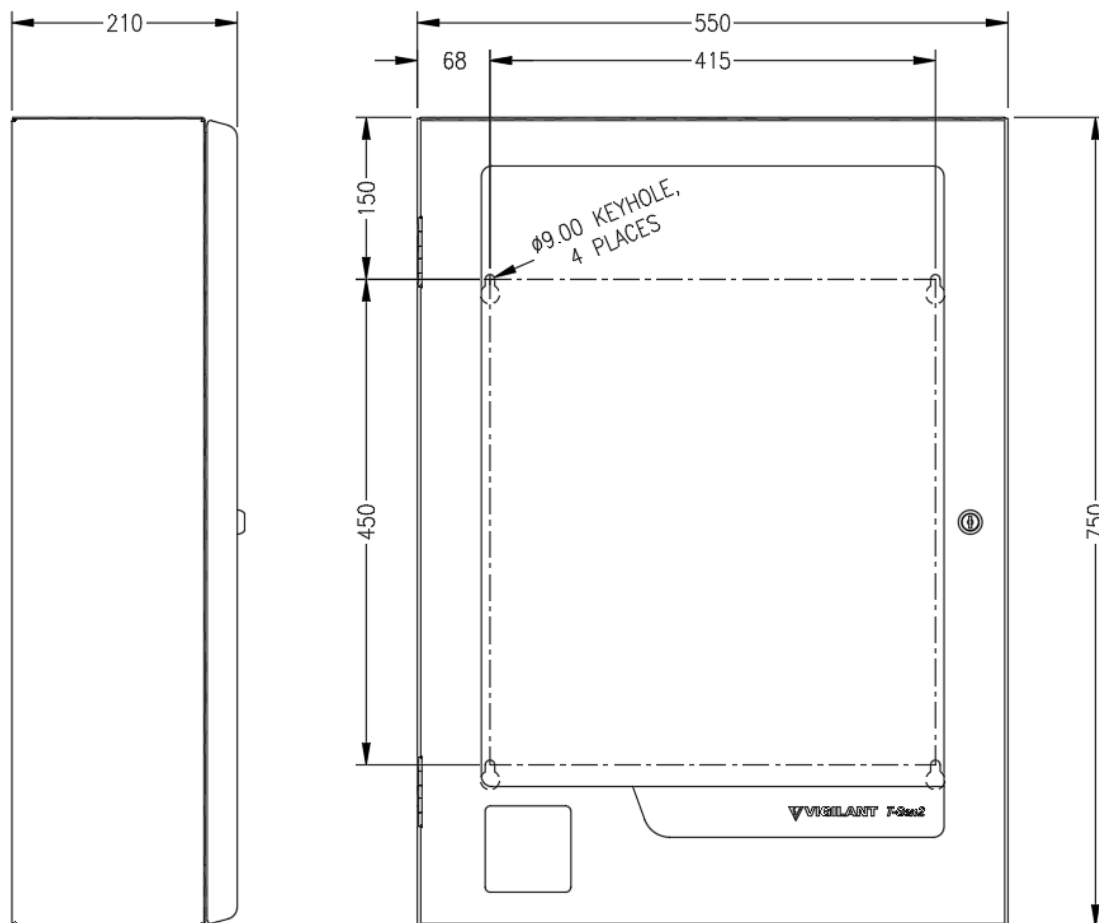


Figure 11 –T-Gen2 15U Panel mounting hole pattern

13. T-Gen2 8U Panel

13.1 T-Gen2 8U Panel Mounting, FP1144

Cabinet mounting holes – 4 x Ø9.0 key holes in the rear wall of the cabinet.

Use 4 flange head with 14 Gauge x 35mm wood screws secured into side grain of dry radiata pine framing timber.

Mounting holes spaced 430mm horizontally and 280mm vertically apart.

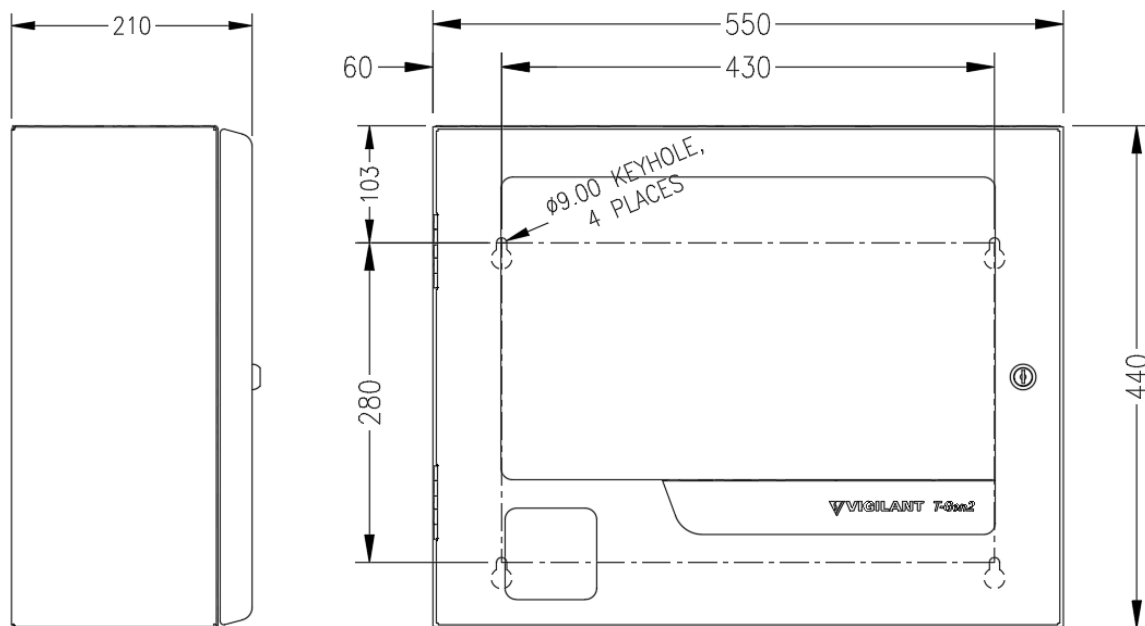


Figure 12 –T-Gen2 8U Panel mounting hole pattern

14. T-Gen2 Isolation Amplifier

14.1 T-Gen2 Isolation Amplifier Mounting, FP1135

Cabinet mounting holes – 4 x Ø6.5 dimpled holes in the rear wall of the cabinet.

Use a min of 2 flange head 8 Gauge x 25mm wood screws secured into side grain of dry radiata pine framing timber, in diagonal corners.

Mounting holes spaced 221mm vertically and 172mm horizontally.

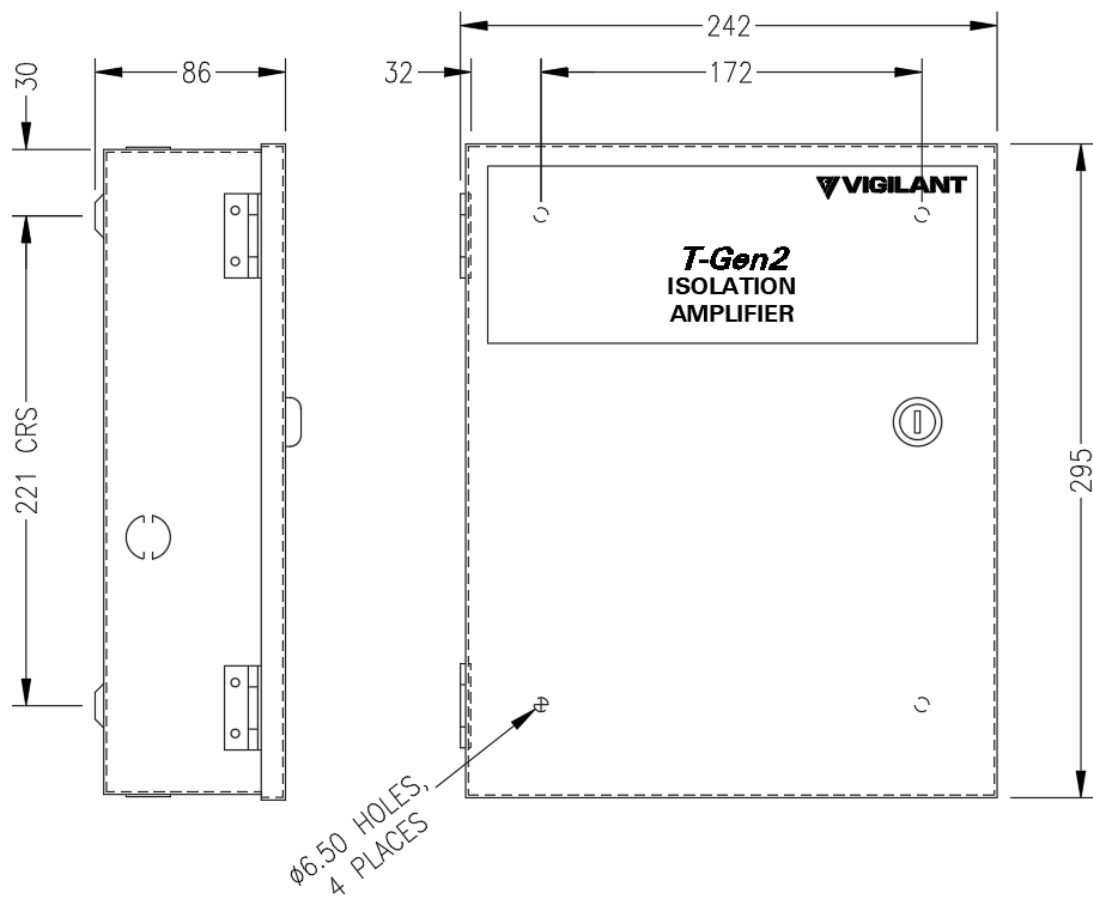


Figure 13 – T-Gen2 Isolation Amplifier mounting hole pattern

15. Vesda PSU

15.1 Vesda PSU Mounting, FP0852

Cabinet mounting holes – 4 x Ø6.5 dimpled holes in the rear wall of the cabinet.

Use a min of 2 flange head 8 Gauge x 25mm wood screws secured into side grain of dry radiata pine framing timber, in diagonal corners.

Mounting holes spaced 165mm vertically and 290mm horizontally.

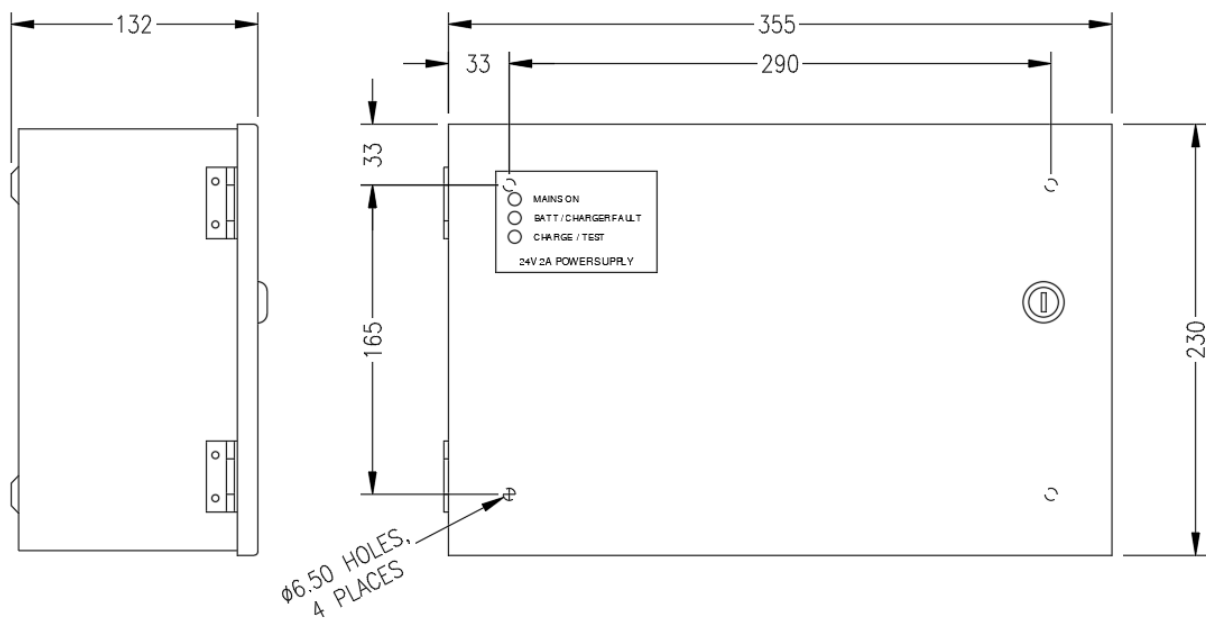


Figure 14 – Vesda PSU mounting hole pattern

16. Local Control Station

16.1 LCS Mounting, FP0570, FP0572 & FP1167

Enclosure mounting holes – 4 x Ø5 holes in the rear wall of the case.

Use a min of 2 flange head 8 Gauge x 25mm wood screws secured into side grain of dry radiata pine framing timber, in diagonal corners.

Mounting holes spaced 140mm vertically and 90mm horizontally.

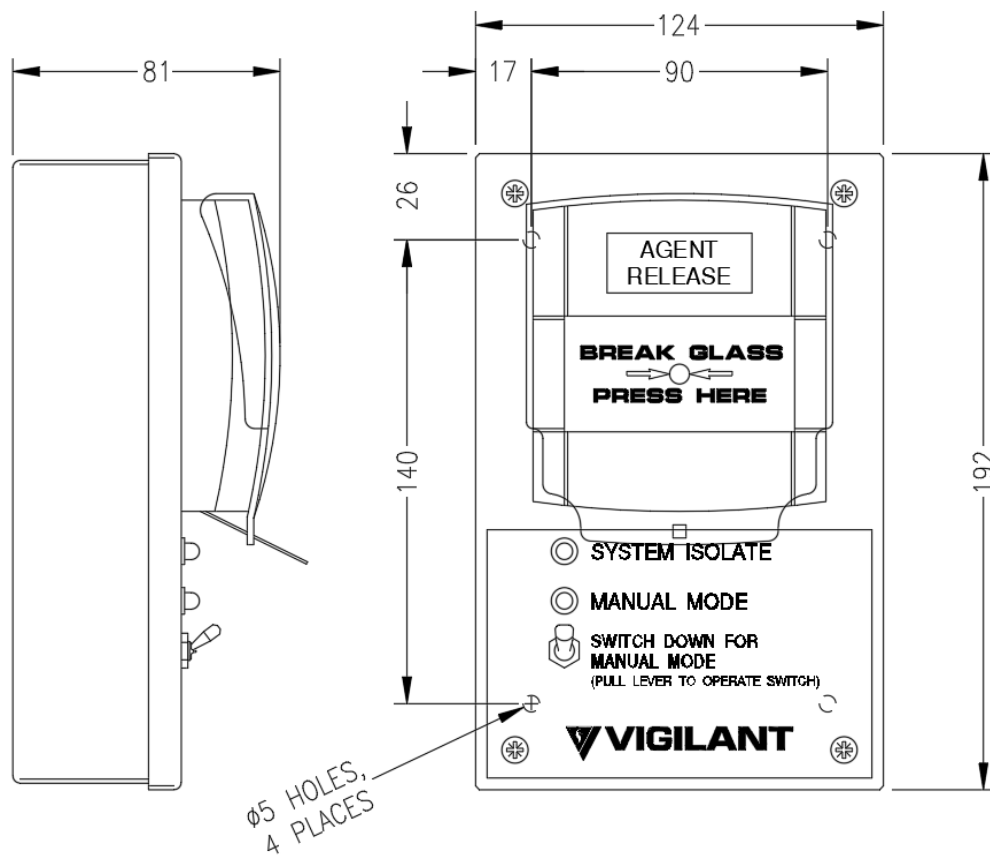


Figure 15 – LCS mounting hole pattern

17. Compact FBA

17.1 Compact FBA Type X & Y Mounting, FP0800 & FP0801

Cabinet mounting holes – 4 x Ø5 holes in the rear wall of the cabinet.

Use a min of 2 flange head 8 Gauge x 25mm wood screws secured into side grain of dry radiata pine framing timber, in diagonal corners.

Mounting holes spaced 210mm vertically and 160mm horizontally.

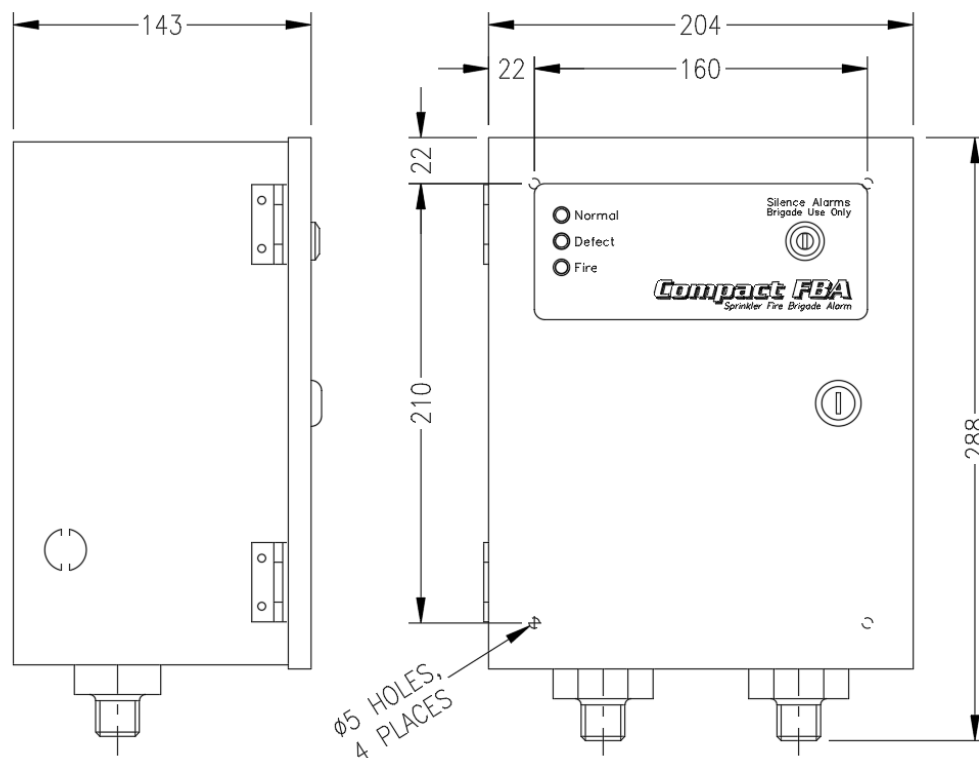


Figure 16 – Compact FBA mounting hole pattern