Enclosures

AE1/AE3

BOSCH

1   Safety

	Notice!
i	**Do not flush mount!** Regulatory agency requirements prohibit flush mounting the enclosures.

	Caution!
⚠	Ensure the enclosure has a proper earth ground.

Before installing the enclosure:
–   Determine the total weight of the enclosure with the modules and batteries. Choose a mounting location and surface that can support this weight. Select appropriate mounting hardware.
–   Ensure that the environmental conditions of the mounting location comply with the technical specifications listed.
–   Ensure that there is sufficient room to open the cabinet door fully. Ensure that you can easily install, wire, and maintain the components within the enclosure.

2 Introduction

The AE1 Standard Enclosure (gray) and AE3 Large Enclosure (gray) support multiple control panels and modules. The enclosures can accommodate different control panel models. You can fit 1 - 2 modules in the small enclosure, or 2 - 3 in the larger enclosure. The enclosures are compatible with an enclosure tamper switch, and can hold up to 2 batteries. Both the AE1 and AE3 are suitable for residential fire/burglary and commercial fire/burglary applications.

2.1 About documentation

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Bosch Security Systems, Inc. product manufacturing dates

Use the serial number located on the product label and refer to the Bosch Security Systems, Inc. website at http://www.boschsecurity.com/datecodes/.

The following image shows an example of a product label and highlights where to find the manufacturing date within the serial number.

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Model Number
Mat/N: F01Uxxxxxx

7 ‖‖‖ 82695 ‖ 11xxx ‖‖‖ 9

8 ‖‖‖ 717332 ‖ 311xxx ‖‖‖
09216082027193xxxx
PRODUCT   QTY= 1

3   Installation
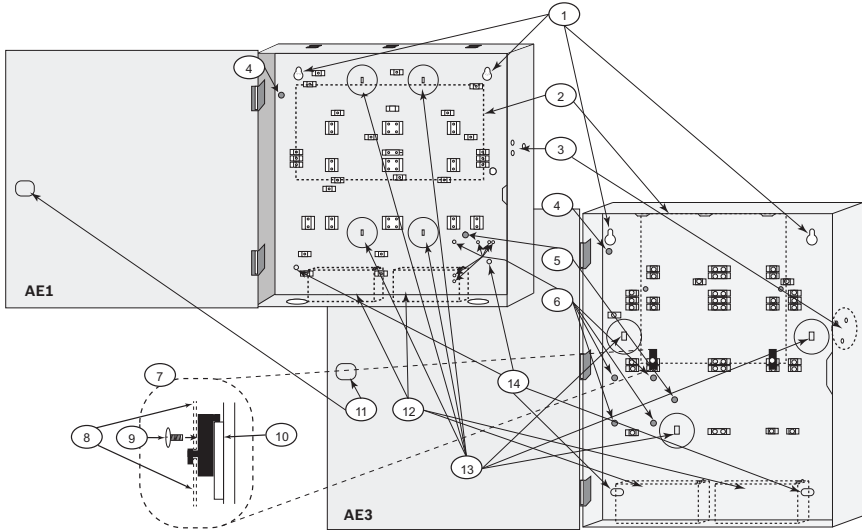
For enclosure details, refer to the following figure.

Figure 3.1: AE1 and AE3 Enclosure features

Callout — Description	Callout — Description
1 — Top enclosure mounting holes (2)	8 — Possible printed circuit board mounting locations
2 — Control panel\module mounting locations	9 — Screw to connect mounting clip or mounting clip and printed circuit board to enclosure
3 — ICP-EZTS Tamper Switch mounting holes (3)	10 — AE1/AE3 Enclosure standoff
4 — Grounding pins for connection enclosure cover to base	11 — Mounting location for lockset
5 — Grounding pin for connecting transformer to base	12 — Battery mounting location (two 7 Ah, 12 Ah, or 18 Ah batteries)

6 — Transformer mounting holes	13 — Knockouts for wiring
7 — Support post assembly	14 — Bottom enclosure mounting holes (2)

3.1   Installation Procedure

Installing the enclosure:

1. Knock out the desired wire entrances on the enclosure.
2. Using the enclosure as a template, mark the top mounting holes on the mounting surface.
3. Start the mounting screws (not supplied) for the 2 mounting holes.
4. Slide the enclosure onto the screws so that the screws rest on the thinnest section of the holes.
5. Tighten the screws.
6. Install and tighten the remaining 2 screws in the bottom mounting holes.

Warning!
Before you install the circuit board, connect the supplied ground wires between the door and enclosure and, if using a transformer, from the transformer to the enclosure.

7. Grounding the door:
–   For grounding the door to the AE1 enclosure, slide the spade end onto one of the tabs at the bottom of the door hinges. Connect the other end to the ground post located to the right of the bottom knockouts. Use a washer and nut (not supplied) to hold the wire tightly to the enclosure.
–   For grounding the door to the AE3 enclosure, connect one end of the wire to the ground post on the enclosure door. Connect the other end to the ground post located under the left top mounting hole using the supplied nuts.
8. Grounding a transformer:

- The AE1 enclosure can hold 2 D126 (7 Ah) batteries and a control panel. If you install a control panel and a transformer in the AE1 enclosure, install the batteries in a separate enclosure. Ground the transformer at the same point where the AE1 base and cover are grounded together. Refer to the enclosure features figure.
- For grounding a transformer to the AE3 enclosure, connect the ground wire from the transformer and power cord to the ground post. The ground post is located to the right of the transformer mounting posts.

4   Specifications

Environmental

Environment	Indoor, dry

Mechanical

Color	Gray
Dimensions	
AE1	Base: 14.5 in. x 12.5 in. x 3.4 in. (368 mm x 318 mm x 87 mm) Cover: 14.67 in. x 12.6 in. x 0.6 in. (373 mm x 320 mm x 15.3 mm)
AE3	Base: 20.4 in. 14.8 in. x 4.1 in. (519 mm x 376 mm x 105 mm) Cover: 20.6 in. x 14.92 in. x 0.7 in. (524 mm x 379 mm x 17.8 mm)
Material	
AE1	Base: Cold-rolled steel, 20 gage (0.9 mm) Cover: Cold-rolled steel, 19 gage (1.06 mm)
AE3	Base: Cold-rolled steel, 18 gage (1.2 mm) Cover: Cold-rolled steel, 19 gage (1.06 mm)
Weight	
AE1	~5.95 lb (2.7 kg)
AE3	~11.7 lb (5.3 kg)
Replacement lock and key sets	
AE1	Lock set: D101-PK625 (F01U078839) with 2 keys Replacement Key (1): KEY-625 (4.998.113.249)

AE3	Lock set: LOCK-1358 (F.01U.083.084) with 2 keys Replacement Key (1): D102 (F.01U.020.510)