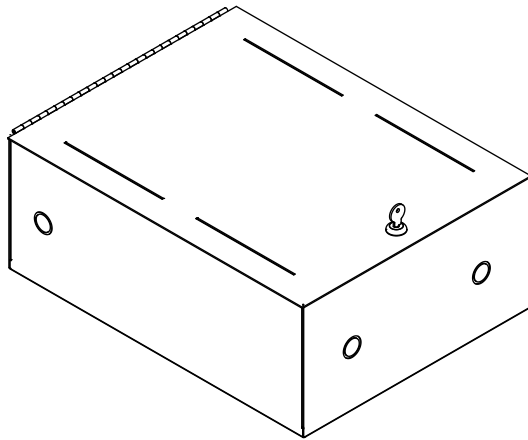




BC-1(R) Battery Cabinet Installation Sheet



Description

The BC-1(R) Battery Cabinet is used for a system requiring a battery rated above 17 Ah. The BC-1(R) consists of a surface mount wall box and door. The cabinet can house up to two 24 Ah or two 40 Ah batteries.

The BC-1(R) provides an internal terminal assembly for wiring the batteries to the fire alarm control panel power supply terminals.

Installation

Install the battery cabinet in accordance with CAN/ULC-S524 *Installation of Fire Alarm Systems*.

Install the battery cabinet in the same room as the fire alarm control panel. We recommend the space between the cabinet and the panel be 3 in. (7.6 cm) minimum and 10 ft. (3.4 m) maximum. Run battery wiring in conduit or equivalent protection against mechanical injury.

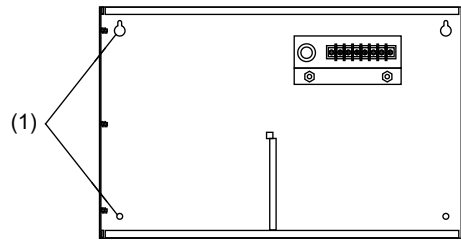
Refer to Figure 4 for BC-1(R) cabinet dimensions.

To install the battery cabinet:

1. Attach the wall box to the wall using the mounting holes on the back of the wall box. See Figure 1.

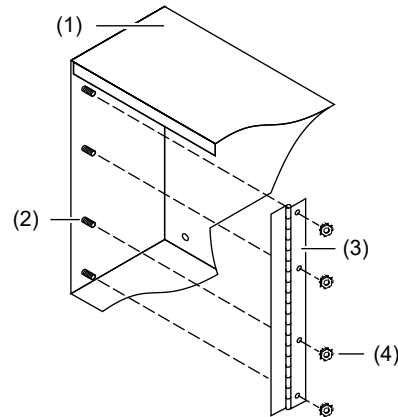
Use fasteners that can support the full weight of the cabinet, including the batteries.
2. Mount the door onto the wall box by aligning the mounting holes in the door hinge to the wall box threaded studs. See Figure 2.
3. Secure the door to the studs using the #6-32 locknuts provided.

Figure 1: Mounting the wall box



(1) Mounting holes

Figure 2: Attaching the door



(1) Wall box
(2) Threaded stud

(3) Door hinge
(4) #6-32 locknut

Wiring

Connect wiring to the BC-1(R) internal terminal assembly in accordance with applicable national and local codes, ordinances, and regulations.

WARNING: Electrocutation hazard. To avoid personal injury or death from electrocution, remove all sources of power and allow stored energy to discharge before installing or removing components.

Notes

- The 3-BC-1(R) internal terminal assembly (P/N 235019) can connect to *only one* fire alarm control panel power supply. If more than one power supply is required, replace the internal terminal assembly with a 3-BTSEN or 3-BTSEN-E battery distribution bus.

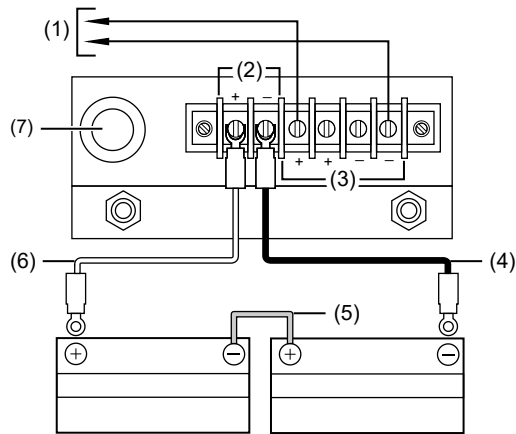
For 3-BTSEN(-E) installation and wiring details, refer to the *3-BTSEN Battery Distribution Bus Installation Sheet* (P/N 387337) or *3-BTSEN-E Battery Distribution Bus Installation Sheet* (P/N 3100030).
- All battery wiring must be the same length and gauge.
- If two batteries are installed in the cabinet, make sure that:
 - the battery model, manufacturer, and rating is the same
 - the battery date codes differ by no more than one month

To connect internal terminal assembly wiring:

1. Place the batteries inside the cabinet.
2. Wire the terminal assembly as shown in Figure 3.



Figure 3: Internal terminal assembly wiring



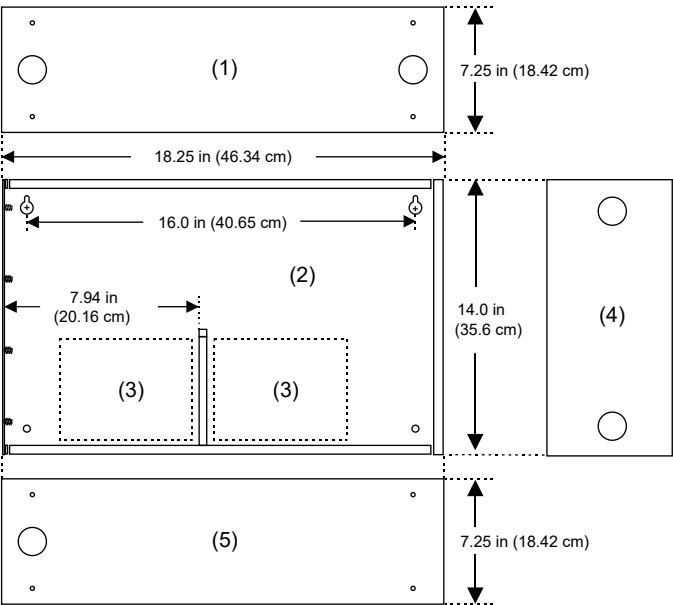
Legend

- (1) To fire alarm control panel battery supply terminals
- (2) Battery IN terminals
- (3) Battery OUT terminals (fused)
- (4) Negative lead (black wire)
- (5) Jumper (blue wire)
- (6) Positive lead (red wire)
- (7) 8 A fuse

Notes

- Only one set of battery OUT terminals (item 3) can be used.
- Positive and negative lead arrangements on the standby batteries vary between manufacturers.

Figure 4: Cabinet dimensions



- (1) Top view
- (2) Front view
- (3) Battery area
- (4) Side view
- (5) Bottom view

Specifications

Fuse rating	8 A, 32 V (one power supply)
Battery type	12 V, 24 to 40 Ah, lead acid
Wire size	16 to 12 AWG (1.5 to 4.0 mm ²)
Dimensions (W × H × D)	18.25 × 14.0 × 7.25 in. (46.34 × 35.6 × 18.42 cm)
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Relative humidity	0 to 93% noncondensing

Regulatory information

Environmental class	Indoor dry IEC: 3K5
North American Standards	UL 864, CAN/ULC-S527
EU compliance	
EU certificates	2831-CPR-F1080
UK compliance	0832
EN 54	EN 54-2:1997/A1:2006 EN 54-4:1997/A1:2002/A2:2006 EN 54-16:2008
European Union directives	2014/53/EU (RED directive): Hereby, Carrier declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.
	2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info .
	2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info .

Contact information

For contact information, see www.edwardsfiresafety.com.