1 | Overview

The B10R-1640-120WI Red Medium Enclosure with 16.5 VAC 40 VA Transformer houses the D1640-120WI wired-in transformer, and select Bosch control panels and modules. The enclosures is compatible with an optional enclosure tamper switch and optional lock and key set, and holds one 7 or 18 Ah batteries.

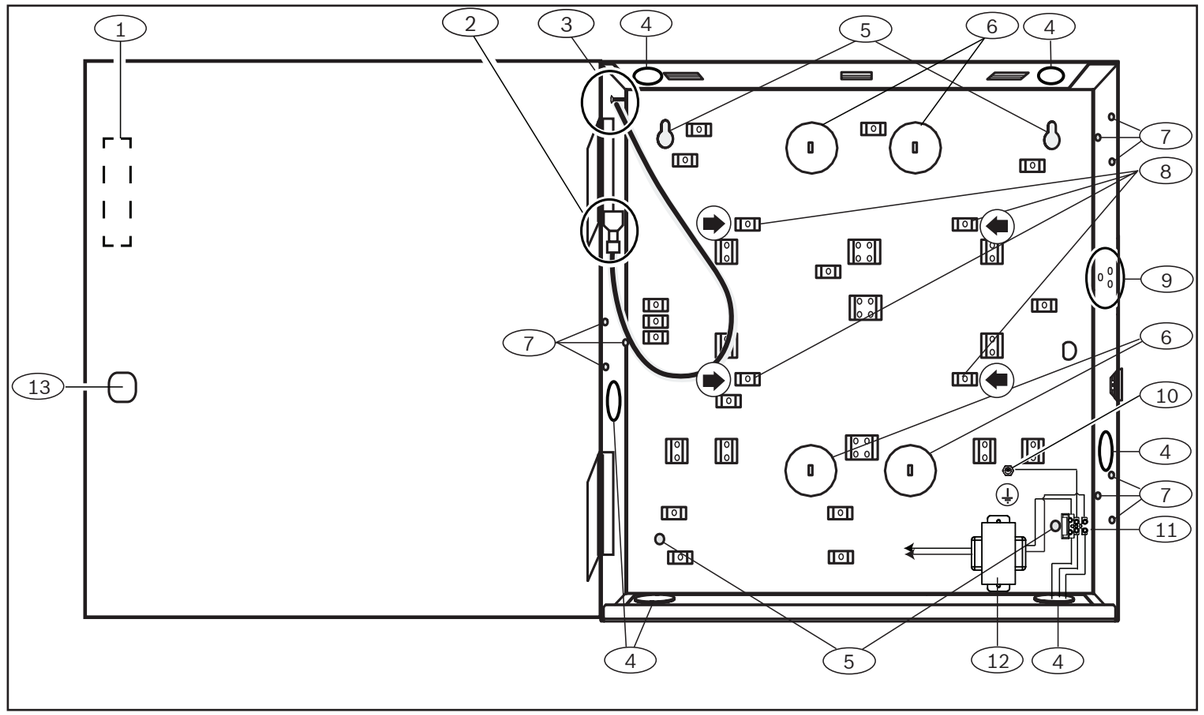

Figure 1.1: B10R-1640-120WI Red Medium Control Panel Enclosure overview

Callout – Description
1 – Cover knockout location
2 – Grounding (bonding) connection to enclosure door
3 – Do not connect any other wires to this lug. Grounding (bonding) connection for door only.
4 – Conduit knockouts (6) 4 - 12.7mm (1/2 in), 2 - 19.05mm (3/4 in)
5 – Enclosure mounting holes (4). Bosch recommends using #10 screws and appropriate wall anchors to secure the enclosure base to the wall.
6 – Wire knockout locations (4)
7 – Module knockout location
8 – Module mounting clip locations
9 – Tamper switch mounting location
10 – Earth ground connection
11 – Transformer fuse block
12 – D1640-120WI transformer
13 – Lockset mounting location

2 | Installation

Refer to the following section for install-related procedures.

2.1 | Install the enclosure

Install the enclosure using the enclosure mounting locations. Refer to *Figure 1.1* for mounting hole locations.

2.2 | Wiring

Insert the conduit wiring (callout #4) through the conduit. Refer to *Figure 2.1* for wiring connections.

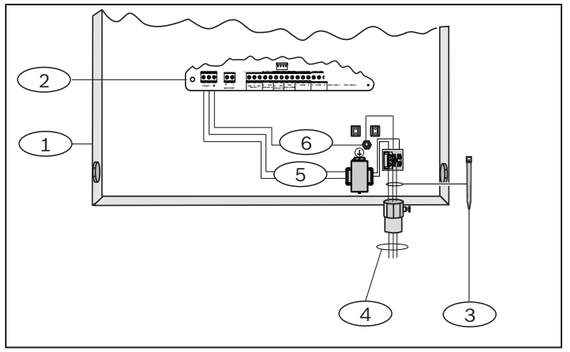

Figure 2.1: Wiring

Callout – Description
1 – Enclosure
2 – Installed module
3 – Plastic tie wrap (use this to group the wires [earth ground, inputs] out from the fuse block terminals)
4 – Conduit wiring into the fuse block terminal
5 – D1640-120WI UL Listed Class 2 Wired Transformer wiring
6 – Control panel/module earth ground wire connection

WARNING!
Installers/Users should not attempt to make electrical connections themselves, but should contact the appropriate certified electrician. To reduce the risk of electrical shock, make sure that all power has been turned off or disconnected before attempting to connect the AC wiring to the D1640-120WI transformer. Do NOT apply power to this unit until all modules and accessories are properly connected. Overcurrent protection for this circuit must comply with Article 760 of the National Electrical Code (NEC) and/or local codes. Use 14 AWG (1.62 mm) or larger wire with 600 volt insulation rating. Make certain that the AC mains circuit breaker is off before wiring any connections between the mains and the D1640-120WI transformer. Connect wiring from the AC mains to the fuse block. Refer to *Figure 2.3.* Failure to comply with this warning may cause personal injury or damage to the equipment.

NOTICE!
For UL 864 applications, all conduit and wiring connected to the B465 must meet the applicable National Electric Code, NFPA Standards, state, and local building code requirements. In all cases, the authority having jurisdiction takes precedence.

2.3 | Replacing the fuse

Locate the circuit breaker supplying power to the B465 if you need to replace the fuse, and turn off before replacing the fuse.

NOTICE!
A spare fuse is provided in the fuse holder .

Refer to *Figure 2.2 f*or removing the fuse from the fuse block. If additional fuses are required, you will need to replace with 0.5 A slow 250 V 5x20 mm fuse.

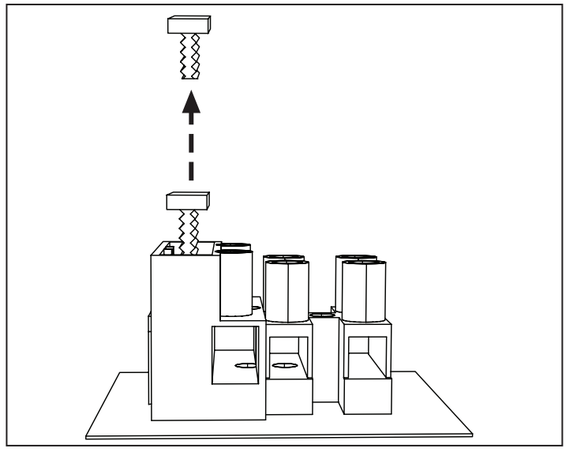

Figure 2.2: Removing the fuse from the fuse block

2.4 | Wire the conduit to the fuse block

Refer to Figure 2.3 for conduit wiring into the fuse block.
Installing the wiring:

1. Feed the conduit wiring (callout #4) through the enclosure conduit opening.
2. Insert the conduit wiring into the fuse block terminal.
3. Secure the conduit wiring with the supplied tie-wrap. Refer to *Figure 2.1*.

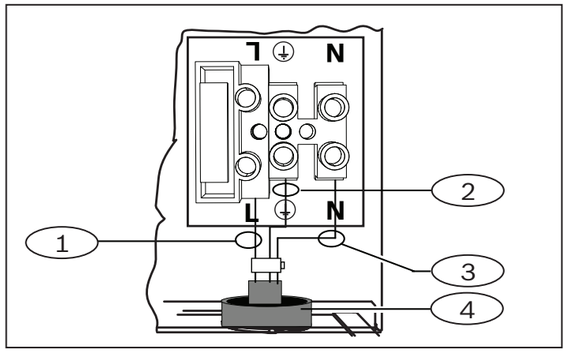

Figure 2.3: Conduit wiring to the fuse block

Callout – Description
1 – Conduit Line wiring into the fuse block terminal
2 – Earth ground wiring into the fuse block terminal
3 – Conduit Neutral wiring into the fuse block terminal
4 – Conduit

2.5 | Installation complete

Re-apply the power at the circuit breaker upon the conclusion of the installation. Refer to your device's installation instructions for further install-related procedures involving your supporting module.

3 | Certifications

Refer to your supporting hardware's certification information for regulatory approvals.

4 | Specifications

Dimensions	37 cm x 32 cm x 8.9 cm (14.5 in x 12.5 in x 3.5 in)
Color	Red
Compatible Lockset (optional)	D101 Lock and Key Set
Voltage (operating)	120 VAC nominal to fuse block
Current (maximum)	<0.5 A
Terminal wire size	2 mm to 0.65 mm (12 AWG to 22 AWG)
Fuse	0.5 A slow 250 V 5x20 mm
Relative humidity	Up to 93% non-condensing
Temperature (operating)	0° to +49° C (+32° to 120° F)
Compatible Tamper Switch (optional)	ICP-EZTS Tamper Switch, D110 Tamper Switch
Material	1.0 mm (20 gauge) cold-rolled steel

Red Enclosure, Medium with 16.5 VAC 40 VA Transformer B10R-1640-120WI

BOSCH

en Installation Guide

Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, NY 14450
USA
www.boschsecurity.com

Bosch Sicherheitssysteme GmbH
Robert-Bosch-Ring 5
85630 Grasbrunn
Germany

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