FIREYE® INSTRUCTIONS Q9801C MOUNTING RACKS

Description

The Q9801C Mounting Rack series are designed for mounting up to eight plug-in modules in a standard 19-inch instrument rack. The racks contain slide rails for easy positioning of the modules. Two Q9801C Mounting Rack models are available for accepting any compatible FIREYE plug-in module or are specifically designed with pre-wired circuits and plug jumper options for the R9105 and R9107 Controller Modules. Filler plates are available in various widths for use when a rack is not filled to capacity.

The Q9801C series is designed to be mounted in instrument cabinets. Slotted holes are provided in the mounting rail to attach the rack to the standard EIA instrument cabinet. Use a minimum of a No. 10 screw when mounting (screws are not provided). All modules are keyed to prevent incorrect insertion (keys are provided but not installed).

Features

- Two models available

  Q9801C1124

  — 44 pin connections provided

  — compatible with all R9101, R9105 and R9107 Controllers and all DE152-XX plug-in modules

  Q9801C1126

  — 22 pin connections provided - compatible with all R9105 and R9107 Controllers, the DE152-28 Switching Card, and the DE152-26 and DE152-27 Voting Logic Cards.

  — common ground circuit

  — common neutral circuit

  — jumpers provided to reduce wiring
- Standard 19-inch instrument rack mounting
- Terminals for field connections
- Wire duct provided for field wiring routing

Specifications

Shipping Weight— 1.8 kilogram (4.2 pounds)
Dimensions — See Figure 1.
Maximum Terminal/Connector Current — 4 amperes continuous.
Terminals — Miniature compression type.

Wiring

General Guidelines

All wiring should be made in accordance with the latest versions of the National Electrical Code and local code requirements.

For any runs on or near hot surfaces use wire rated for 220°F (105°C) or higher.

Each terminal is designed for a single 12 AWG wire or two 18 AWG wires. Rather than connecting a greater number, make other connections on an external terminal strip. Do not make splices in conduit or fittings.

Q9801C1124 Wiring

Refer to Figure 2. Note that each card connector pin is wired independently to an individual terminal on the backplate for field or rack interconnections. Be sure to wire backplate so that the removal of a single module does not break a circuit. Wire according to the numbers etched on the circuit board on which the backplate is mounted. Do not use the molded numbers on the terminal blocks of the backplate.

Q9801C1126 Wiring

Refer to Figure 3. Note that the flame controller odd/even contacts and rack connector are common and are brought out to the 22 terminals on the backplate (identified by odd numbered designators etched on the circuit board) for field or rack interconnections. Wire according to the numbers etched on the circuit board on which the backplate is mounted. Do not use the molded numbers on the terminal blocks of the backplate.

Q9801C1126 Jumpers

The Q9801C1126 Rack jumpers are located inside the rack next to each edge card connector. The jumper number is referenced to its location on the field terminal (rear of rack). Refer to Figure 4.

Jumper 5— Connects neutral on ac power supply input to neutral on controller control input (terminal 5 to terminal 13). **Caution: Jumper 5 must be removed when the controller in the corresponding slot is equipped with the optional 4-20 Milliampere Module. Failure to remove Jumper 5 will result in equipment damage.**

Jumper 29 — Connects hot on ac power supply input to relay K3 common on the controller (terminal 29 to terminal 9). **Caution: Jumper 29 must be removed when relay contacts are powered externally or when a dry circuit is required. Failure to remove Jumper 29 will result in equipment damage.**

Jumper 35 — Connects hot on ac power supply input to relay K2 common on the controller (terminal 35 to terminal 9). **Caution: Jumper 35 must be removed when relay contacts ore powered externally or when a dry circuit is required. Failure to remove Jumper 35 will result in equipment damage.**

Jumper 41 — Connects hot on ac power supply input to relay Kl common on the controller (terminal 41 to terminal 9). **Caution: Jumper 41 must be removed when relay contacts are powered externally or when a dry circuit is required. Failure to remove Jumper 41 will result in equipment damage.**

Device Repair and Return

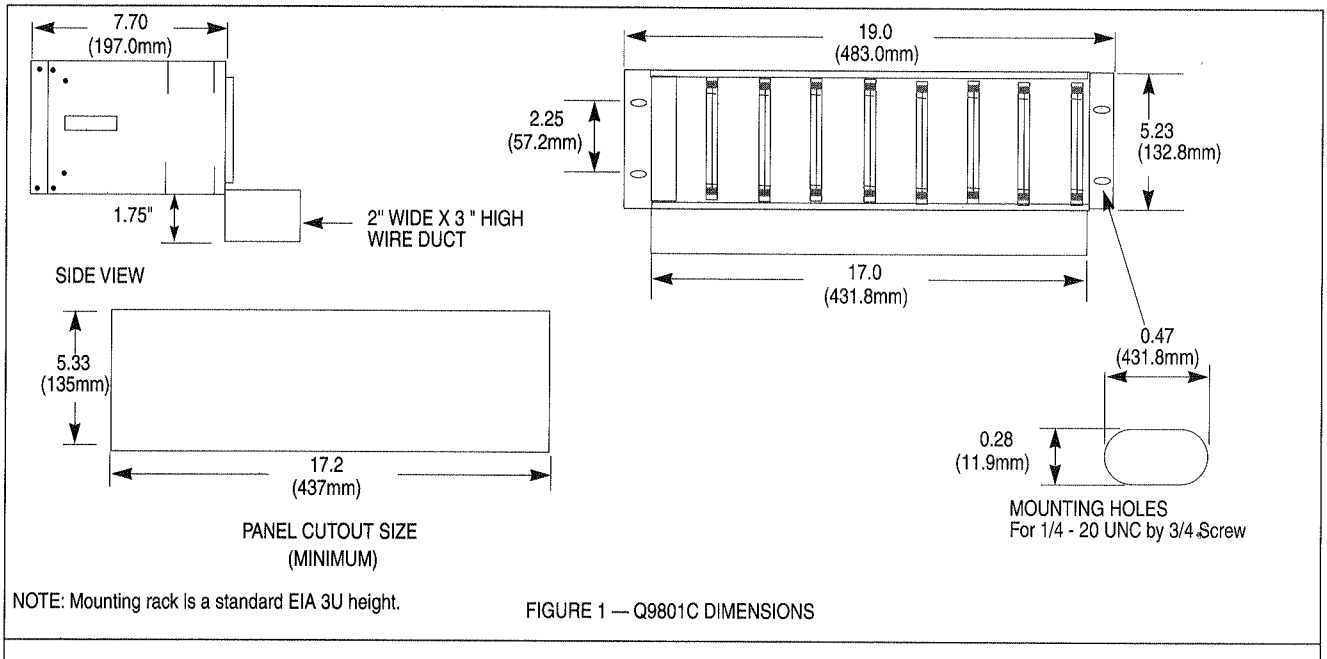
Prior to returning devices or components, contact the nearest local Fireye ASCD office so that an RMI (Return Material Identification) number can be assigned. A written statement describing the malfunction must accompany the returned device or component to expedite finding the cause of the failure, thereby reducing the time and cost of the repair to the customer.

Return all equipment transportation prepaid to the Minneapolis location.

Ordering Information

When ordering specify:

PART NUMBER	DESCRIPTION
Q9801C1124	Mtg. rack — 44 independent connections
Q9801C1126	Mtg. rack — 22 connections (used for R9101, R9105, R9107 Flame Controllers, DE152-28 Switching Card, DE152-26, -27 Voting Logic Cards)
DE3420-002	Filler Plate (2-inches wide)
DE3420-004	Filler Plate (4-inches wide)



NOTE: Mounting rack is a standard EIA 3U height.

FIGURE 1 — Q9801C DIMENSIONS

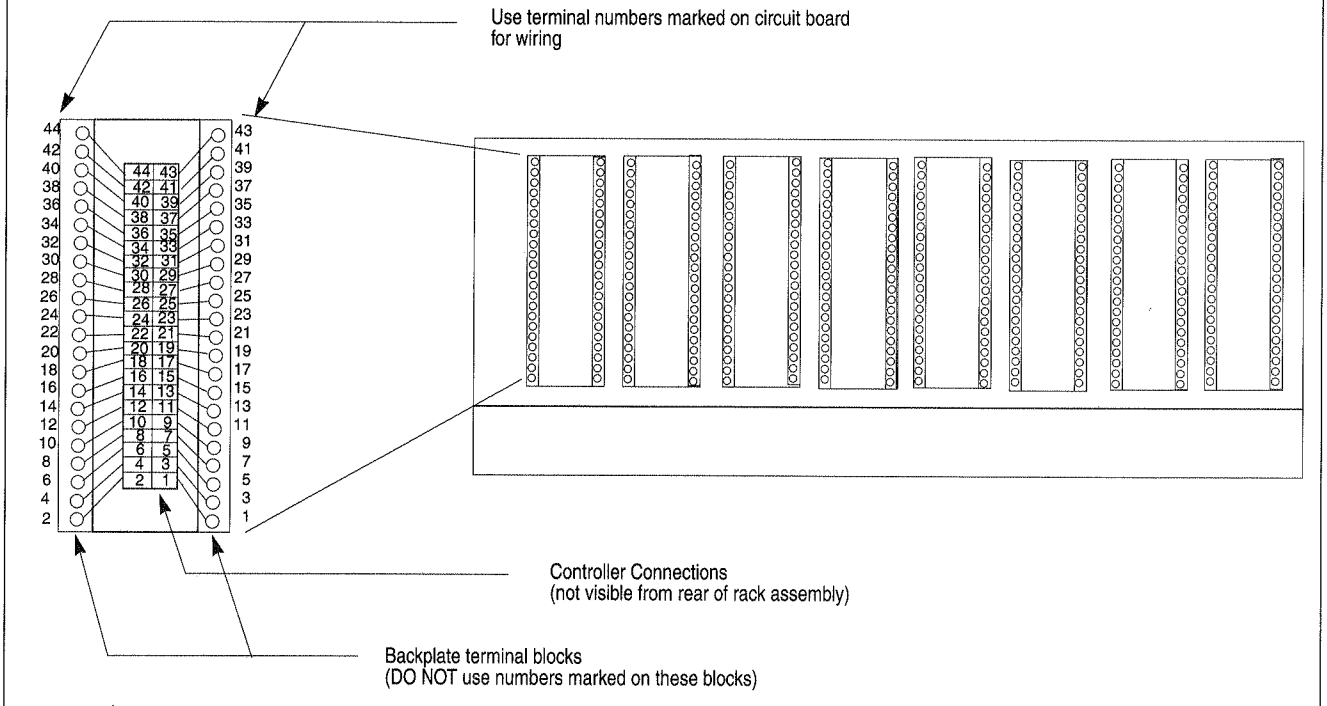


FIGURE 2 — Q9801C1124 REAR VIEW AND ELECTRICAL CONNECTIONS SHOWN

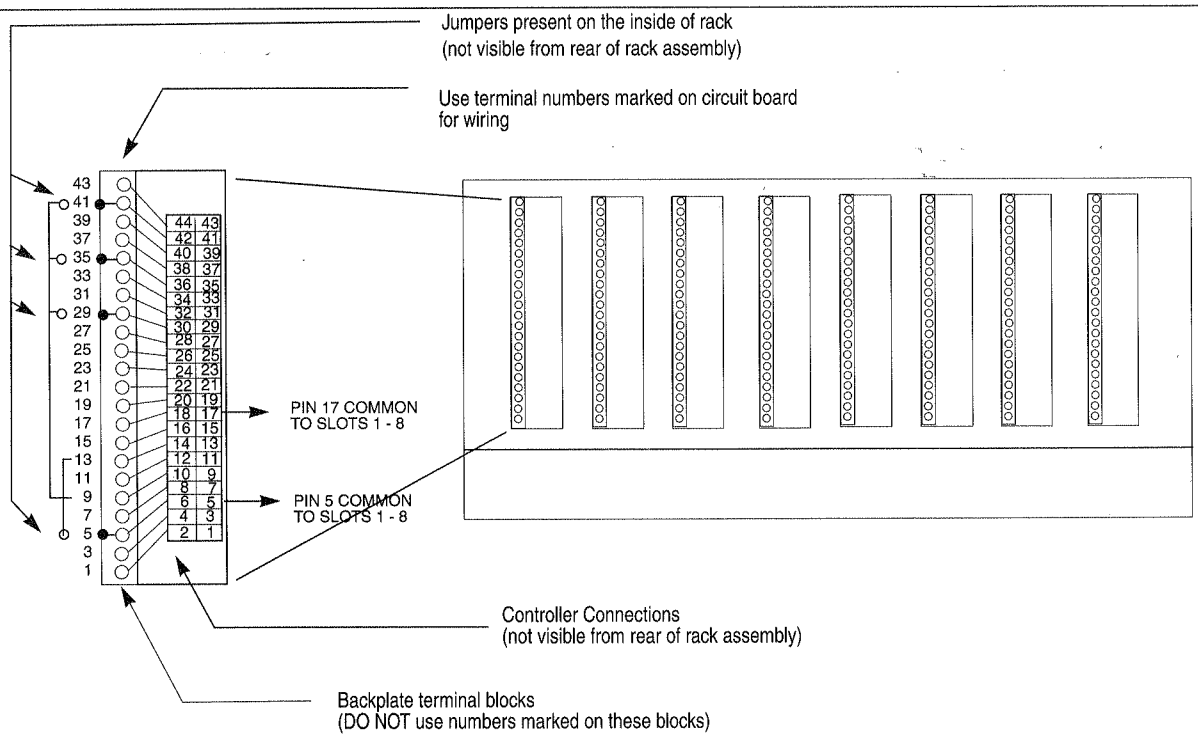
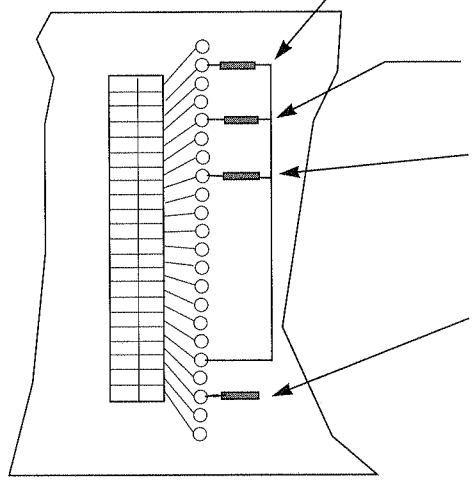


FIGURE 3— Q9801C1126 REAR VIEW AND ELECTRICAL CONNECTIONS SHOWN



JUMPER 41
— Connects AC Supply H to controller relay K1 common. Jumper must be removed when relay contacts are powered externally or when dry circuit is required.

JUMPER 35
— Connects AC Supply H to controller relay K12 common. Jumper must be removed when relay contacts are powered externally or when dry circuit is required.

JUMPER29
— Connects AC Supply H to controller relay K13 common. Jumper must be removed when relay contacts are powered externally or when dry circuit is required.

JUMPER 5
— Connects AC Supply N to controller Controllers control input (terminal 13). Jumper must be removed when controller in corresponding slot is equipped with optional 4-20 milliampere module.

FIGURE 4 — Q9801C1126 JUMPER LOCATION
ONE SLOT SHOWN TYPICAL FOR EACH SLOT

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