![Mircom™ logo]

MODEL QRM-1001

BELL CUT MODULE

INSTALLATION AND OPERATING INSTRUCTIONS

Installation

The QRM-1001 Bell Cut module is used to silence bells while paging is in operation. This module is used in conjunction with the QX-5000 Emergency Zoned Audio and Firefighter's Telephone System tied into a Fire Alarm system. The module is mounted into the QBB-5001 Audio Cabinet using two screws. The cable attached to the module is connected into position J6 on the QIF-5000 Interface module in the audio cabinet.
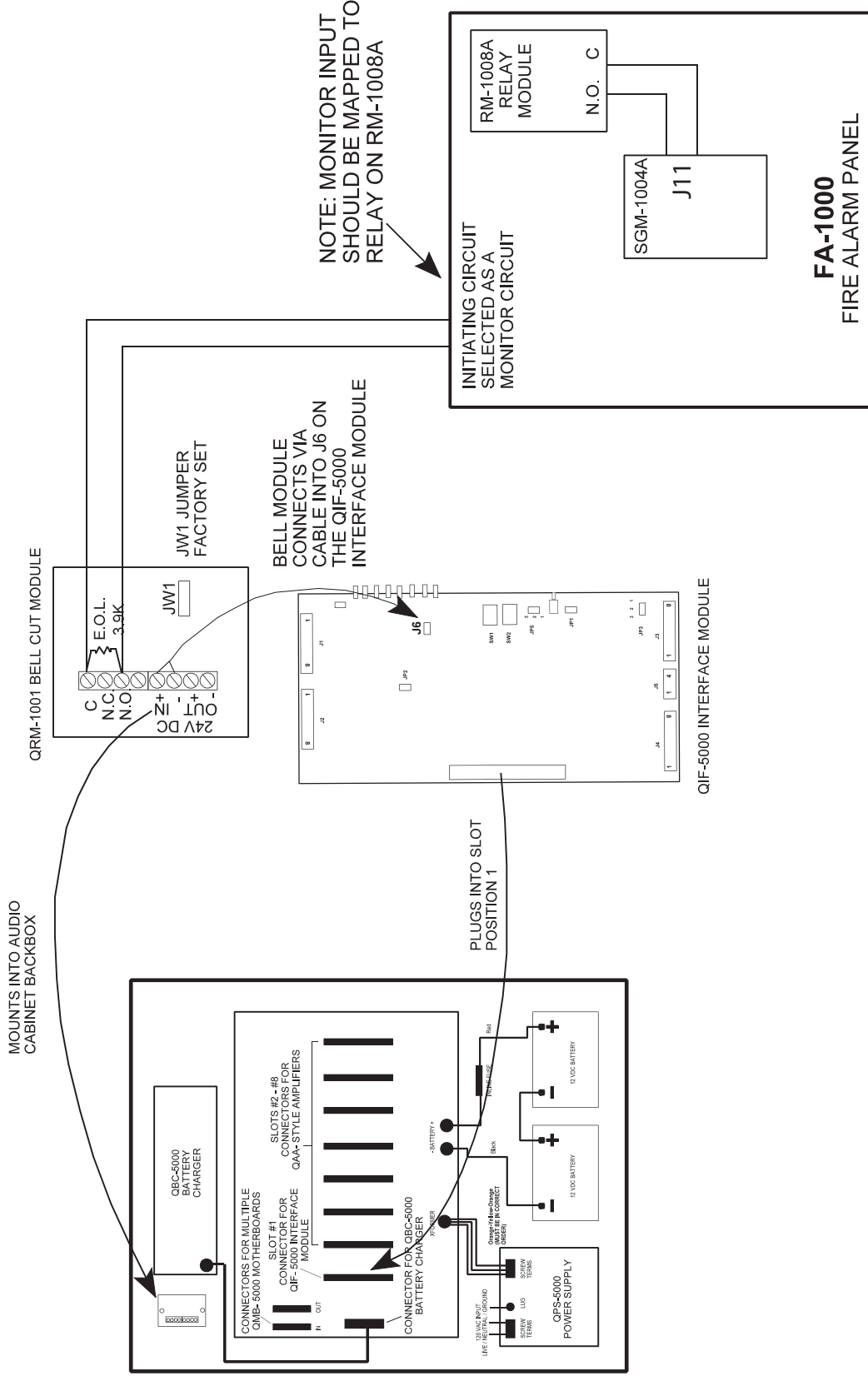
Wiring

The QRM-1001 Bell Cut module contains three terminals for Common, Normally Closed contact and Normally Open contact. The normally open and common terminals are wired to an initiating circuit configured as a monitor zone. The power terminals are connected (via the attached cable) to the QIF-5000 Interface board. When using an FX-2000 Intelligent Analog Fire Alarm panel the QRM-1001 Bell Cut Module is connected to an MIX-M500MA Monitor Module and the loop is connected to a MIX-M500RA Relay Control Module (which must be installed inside the fire alarm panel) and from this control module to the bell cut terminals J11 on the adder board SGM-1004A. When using an FA-1000 Fire Alarm panel configuration DIP switches are set to 0010 0111 to configure an initiating zone as a monitor input. More than one zone may be configured this way, depending on how many bell circuits are connected (excluding the two indicating circuits that are required to be connected to the QIF-5000 Interface module in the audio cabinet). The 24V ouput terminals are used for daisy chaining, if required.   See attached wiring diagram for further details.

Operation

With the QRM-1001 Bell Cut module used in conjunction with a QX-5000 and a Mircom FX-2000 or FA-1000 Fire Alarm Panel, pressing the Push-to-Talk button on the microphone (at the QX-5000) will stop the bell ringing while paging is in progress (as long as the Push-to-Talk button is depressed).

MIX-M500MA(or MIX-M501MA)
MONITOR MODULE

9 8 7 6 5
1 2 3 4

LOOP

ADDRESSABLE LOOP

RELAY MODULE MIX-M500RA
+ −
N.O. C
5 7

SGM-1004A
J11

FX-2000
FIRE ALARM PANEL

QRM-1001 BELL CUT MODULE

E.O.L. 47K

JW1

JW1 JUMPER FACTORY SET

C
N.C.
N.O.
OUT − +
IN − +
24V DC

BELL MODULE CONNECTS VIA CABLE INTO J6 ON THE QIF-5000 INTERFACE MODULE

J6

QIF-5000 INTERFACE MODULE

MOUNTS INTO AUDIO CABINET BACKBOX

PLUGS INTO SLOT POSITION 1

QBC-5000 BATTERY CHARGER

CONNECTORS FOR MULTIPLE QMB-5000 MOTHERBOARDS

SLOT #1 CONNECTOR FOR QIF-5000 INTERFACE MODULE

SLOTS #2 - #8 CONNECTORS FOR QAA- STYLE AMPLIFIERS

CONNECTOR FOR QBC-5000 BATTERY CHARGER

IN OUT

12 VDC BATTERY

12 VDC BATTERY

+ BATTERY +

Orange=Valve Charge Which must be in correct order

QPS-5000 POWER SUPPLY

120 VAC INPUT LINE NEUTRAL GROUND

SCREW TERMS
LUG
SCREW TERMS

FOR A CONVENTIONAL (NON-ADDRESSABLE)
FIRE ALARM PANEL SUCH AS FA-1000, A MONITOR
AND CONTROL MODULE ARE **NOT** USED.
INSTEAD USE AN INITIATING ZONE, AN RM-1008A
RELAY MODULE AND A SGM-1004A.

FIRE ALARM AND VOICE PAGING SYSTEM

QRM-1001 BELL CUT MODULE WIRING APPLICATION - SILENCE OF THE BELLS WHEN
THE PUSH-TO-TALK BUTTON IS PRESSED AT THE QX-5000 PANEL.

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NOTE: MONITOR INPUT SHOULD BE MAPPED TO RELAY ON RM-1008A

RM-1008A RELAY MODULE

N.O.   C

SGM-1004A

J11

INITIATING CIRCUIT SELECTED AS A MONITOR CIRCUIT

FA-1000
FIRE ALARM PANEL

QRM-1001 BELL CUT MODULE

JW1 JUMPER FACTORY SET

BELL MODULE CONNECTS VIA CABLE INTO J6 ON THE QIF-5000 INTERFACE MODULE

E.O.L. 3.9K

JW1

C
N.C.
N.O.
24V DC   IN + IN − OUT + OUT −

QIF-5000 INTERFACE MODULE

J6

SW1
SW2

MOUNTS INTO AUDIO CABINET BACKBOX

PLUGS INTO SLOT POSITION 1

QBC-5000 BATTERY CHARGER

SLOTS #2 - #8 CONNECTORS FOR QAA- STYLE AMPLIFIERS

CONNECTORS FOR MULTIPLE QMB-5000 MOTHERBOARDS

SLOT #1 CONNECTOR FOR QIF- 5000 INTERFACE MODULE

CONNECTOR FOR QBC-5000 BATTERY CHARGER

IN   OUT

Red

+BATTERY+

Black

XPOWER

Orange=No-Charge (MUST BE IN CORRECT ORDER)

12 VDC BATTERY

12 VDC BATTERY

SCREW TERMS

120 VDC INPUT LIVE/ NEUTRAL/ GROUND

SCREW TERMS

LUG

QPS-5000 POWER SUPPLY

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FIRE ALARM AND VOICE PAGING SYSTEM

QRM-1001 BELL CUT MODULE WIRING APPLICATION - SILENCE OF THE BELLS WHEN THE PUSH-TO-TALK BUTTON IS PRESSED AT THE QX-5000 PANEL.