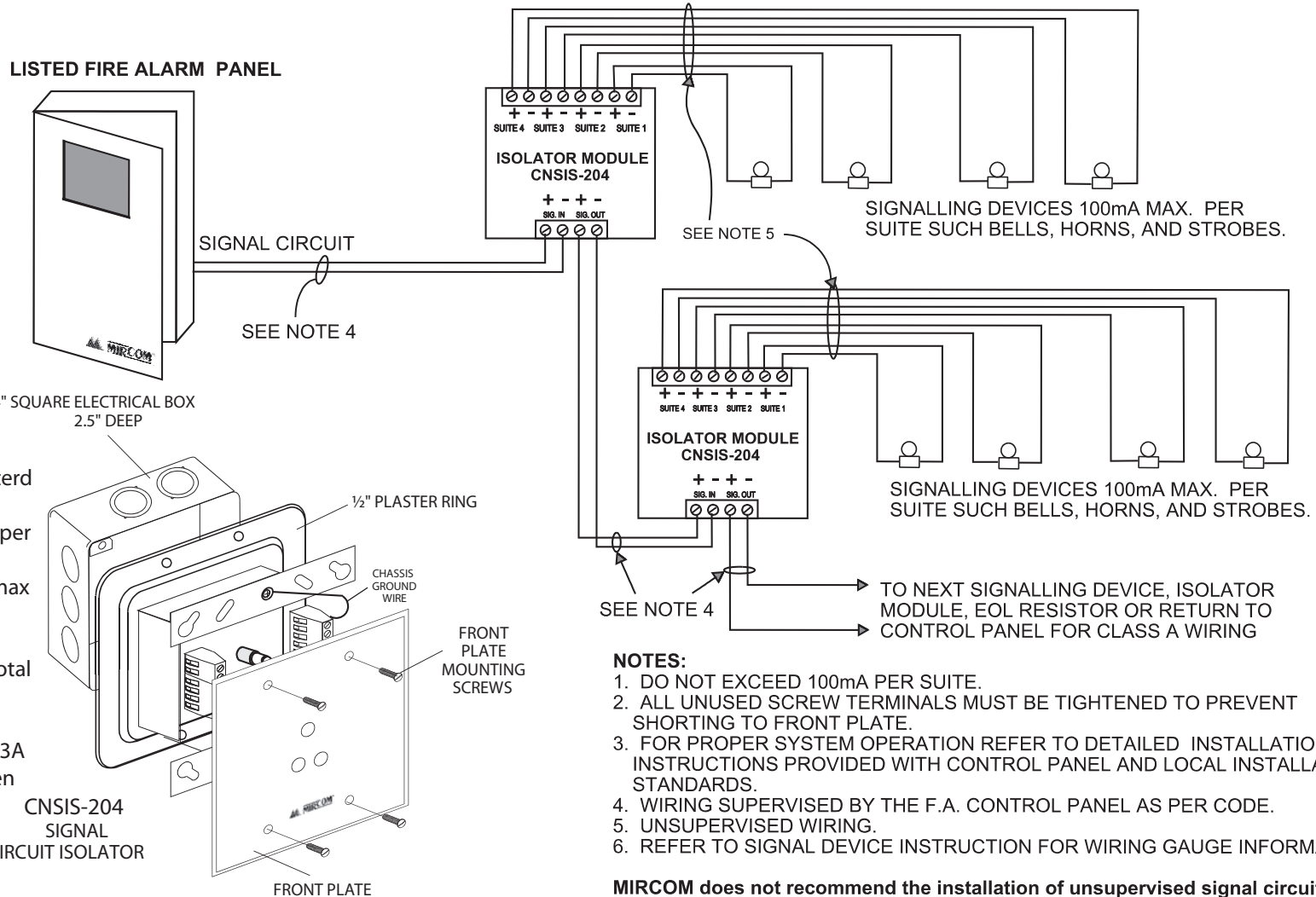The CNSIS-204 is a signal isolator which provides four non-supervised isolator outputs. These isolators remove the bells, horns or strobes which follow it out of the circuit should there be a trouble (short). This feature provides integrity of the signal circuit, that is; should an isolated bell, horn or strobe malfunction, the rest of the bells, horns or strobes will continue to function.

INSTALLATION: The signal isolators mount into a standard 4" square electrical box using the 4 screws provided. These electrical boxes are usually mounted in hallways, outside the suites which contain the signalling devices to be isolated. There is a white finish plastic front plate included with the isolator which is mounted onto the isolator as shown in Figure below.

ıⁱISOLATOR WIRING:
The isolator is wired into the signalling circuit from the Fire Alarm Panel and wired from the isolator to the signalling devices located in the suites and the circuit is continued to the next isolator or end-of-line resistor. Please refer to wiring diagram below.

LISTED FIRE ALARM PANEL

ISOLATOR MODULE
CNSIS-204

SUITE 4   SUITE 3   SUITE 2   SUITE 1

SIG. IN   SIG. OUT

SIGNAL CIRCUIT

SEE NOTE 5

SIGNALLING DEVICES 100mA MAX. PER SUITE SUCH BELLS, HORNS, AND STROBES.

SEE NOTE 4

SUITE 4   SUITE 3   SUITE 2   SUITE 1

ISOLATOR MODULE
CNSIS-204

SIG. IN   SIG. OUT

SIGNALLING DEVICES 100mA MAX. PER SUITE SUCH BELLS, HORNS, AND STROBES.

SEE NOTE 4

TO NEXT SIGNALLING DEVICE, ISOLATOR MODULE, EOL RESISTOR OR RETURN TO CONTROL PANEL FOR CLASS A WIRING

4" SQUARE ELECTRICAL BOX
2.5" DEEP

½" PLASTER RING

CHASSIS GROUND WIRE

FRONT PLATE MOUNTING SCREWS

CNSIS-204
SIGNAL
CIRCUIT ISOLATOR

FRONT PLATE

ELECTRICAL RATINGS:
SIGNAL IN: Regulated 24VDC/FWR, 1.0 A max (Filterd or Unfiltered)
SUITE CURRENT: 0.1 A max per suite.
STANDBY CURRENT: 0.0 A max per isolation module

➡Subtract 0.4A from the total signal circuit current when using any number of these isolators, i.e. 1.7A - 0.4A =1.3A available for signalling when using isolators.

NOTES:
1. DO NOT EXCEED 100mA PER SUITE.
2. ALL UNUSED SCREW TERMINALS MUST BE TIGHTENED TO PREVENT SHORTING TO FRONT PLATE.
3. FOR PROPER SYSTEM OPERATION REFER TO DETAILED INSTALLATION INSTRUCTIONS PROVIDED WITH CONTROL PANEL AND LOCAL INSTALLATION STANDARDS.
4. WIRING SUPERVISED BY THE F.A. CONTROL PANEL AS PER CODE.
5. UNSUPERVISED WIRING.
6. REFER TO SIGNAL DEVICE INSTRUCTION FOR WIRING GAUGE INFORMATION.

MIRCOM does not recommend the installation of unsupervised signal circuits. Mircom recommends occupants follow proper measures for fire procedures for their premises.