

**Model CM-120 iS/oS
Stand-Alone Digital Keypad**

TECHNICAL SHEET

Fig. 1 **AUXILLIARY CONNECTOR J5**

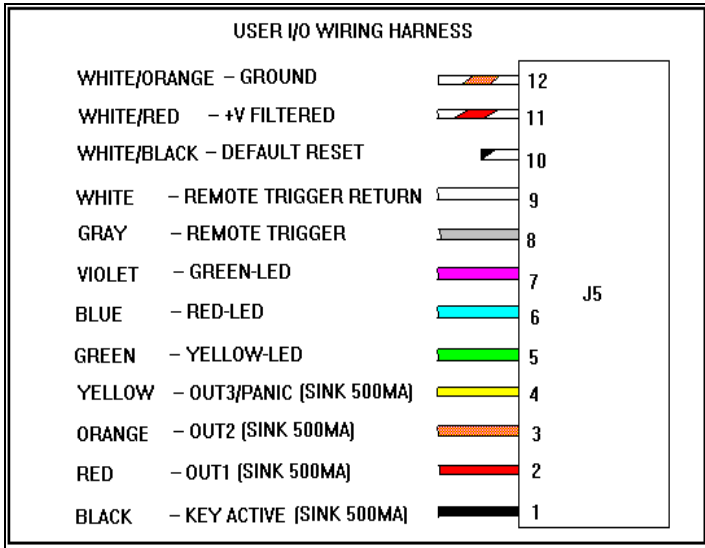
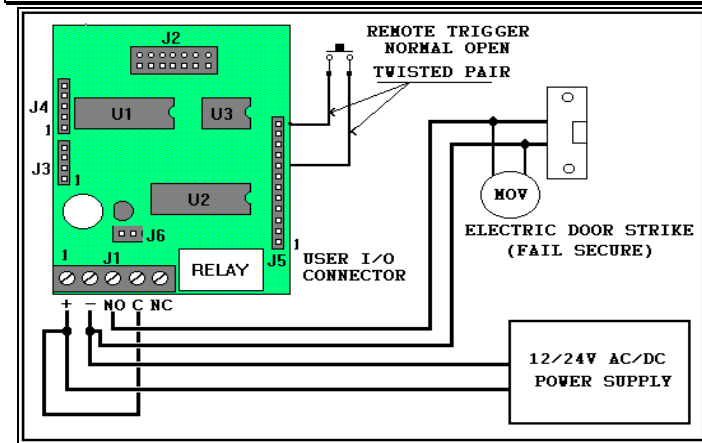
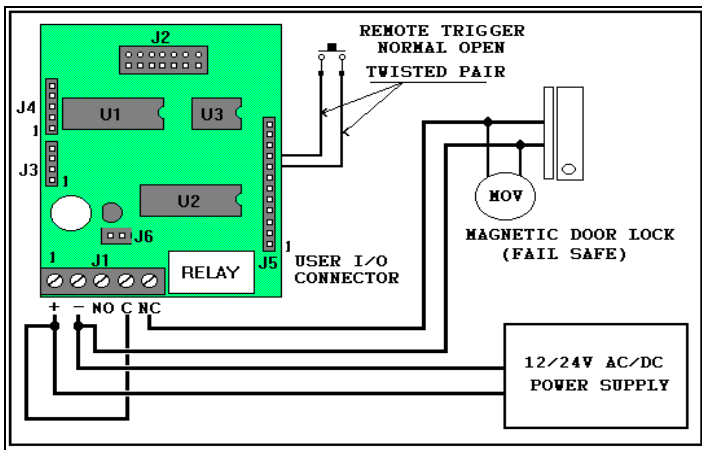


Fig. 2 **ELECTROMAGNETIC DOOR LOCK (above)**

Fig. 3 **ELECTRIC DOOR STRIKE (below)**



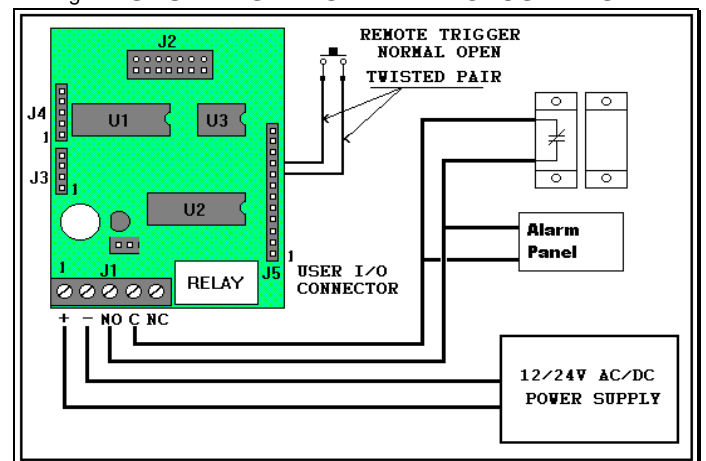
INSTALLATION TIPS

SYSTEM WIRING RECOMMENDATIONS:

- The REMOTE TRIGGER LINE should be wired with either TWISTED-PAIR wire or SHIELDED wire to reduce the chance of noise problems. If using SHIELDED wire, tie the shield to ground at one end only – preferably the power supply ground.
- All ground and signal return lines should terminate at only one place, that being the POWER SUPPLY GROUND. This will keep GROUND CURRENT noise to a minimum. This can be in the form of a common ground lug near the power supply or Alarm Control Panel.
- **Install the MOV surge suppressor as close to the actuator (door lock) as possible to prevent kickback voltage from damaging the keypad.**
- When installing the keypad outside, apply silicone to the area where the wires exit from the housing. Also, install a small weep hole in the bottom of the housing to allow moisture from condensation to drip from the housing.

When installing the CM120 keypad in a single-gang metal box (1.8"W x 2.9"H), place insulating tape on the housing near the location of J1 on the board. As the spacing is tight, this will prevent any strands of wire from shorting to the metal box. Also ensure that the FRONT of the metal box is mounted FLUSH with the front of the wall stud and NOT flush with the sheetrock. It is RECOMMENDED that all new installations be mounted in a standard plastic, single-gang box.

Fig. 4 **SHUNTING A NORMALLY-CLOSED ZONE**



EXTERNAL DEVICE CURRENT LIMITS:

- The SINK capability of 500ma applies to 12V AC/DC power and jumper J6 installed.
- For 24VDC or AC supplies, derate the SINK current to 50ma and REMOVE jumper J6.

Fig. 5 **ARMING/DISARMING
A TYPICAL CONTROL PANEL**

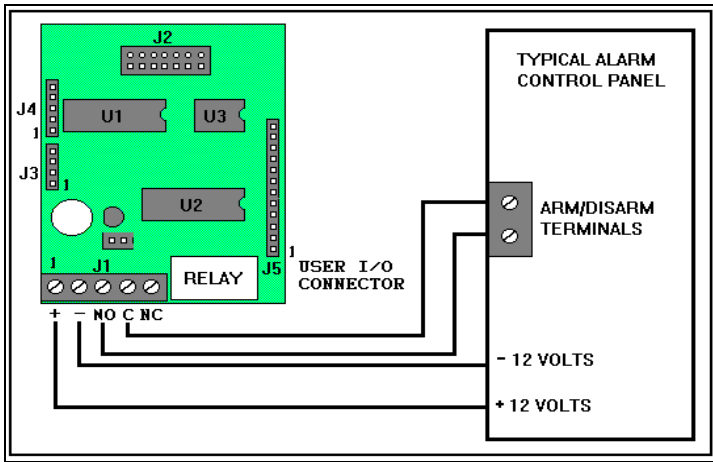


Fig. 6 **AUXILIARY RELAY WIRING**

(Can be used to open a second door, control a light, or shunt a zone.)

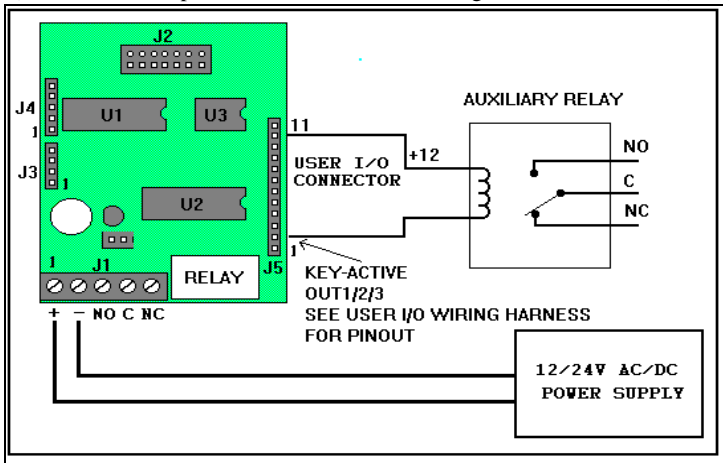
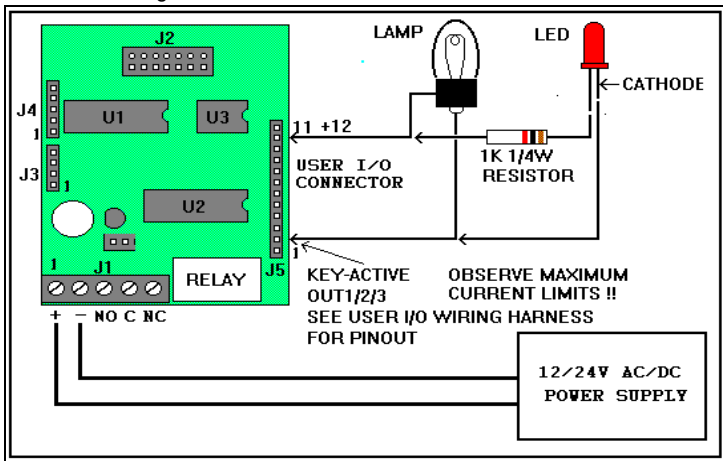


Fig. 7 **EXTERNAL LAMP WIRING**



SPECIFICATIONS:

MECHANICAL:

Board Dimensions: 1.75" W x 2.8" H x 1" D

ENVIRONMENTAL:

Temperature: -20°F to +130°F (-28°C to +54°C)

Humidity: 90%

FEATURES:

- * Low Cost, Easy to Use
- * Single-Gang, Flush-mount Design
- * 12-24V AC/DC Operation
- * 123 users, 1- to 6-Digit User Codes
- * On-Board 10 amp Form "C" Relay
- * 5 Individual Outputs
- * 5 User-Programmable Timers
- * Error Key Lockout
- * Non-Volatile EEPROM Memory
- * Easy-To-Use Front Programming
- * Indoor and Outdoor Models Available
- * 3-Year Performance Warranty

PLEASE NOTE:

- This device is designed to detect intrusion and to initiate an alarm. It is not a burglary-preventing device. Camden is not responsible for damage, injury or losses caused by accident, theft, Acts of God (including inductive surge by lightning), abuse, misuse, abnormal usage, faulty installation, or improper maintenance.

ELECTRICAL:

SUPPLY VOLTAGE:

12 or 24 volts AC or DC

@12 volts AC/DC – jumper J6 installed

@24 volts AC/DC – jumper J6 removed

Max. supply voltage – 28V AC/DC – jumper J6 removed

OUTPUT CURRENT LIMITS:

@12VDC 500ma (sink)

@24V unregulated (J6 removed) 50ma (sink)

MAIN-RELAY – 10amp surge, 6amp continuous

Maximum Wire Size for J1 – 16AWG

GENERAL KEYPAD LIMITS:

Remote Trigger minimum ON time – 100ms

Keypad Debounce time – 100ms

Keypad life – 1,000,000 operations per key

User Memory write cycle limit – 1,000,000 cycles

User Memory retention > 40 years



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