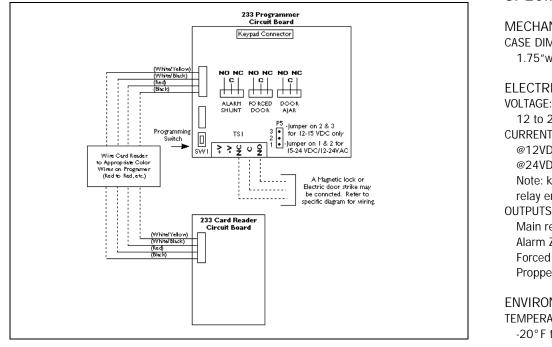
DOOR-GARD SELF-CONTAINED ACCESS CONTROL SYSTEMS 233 Wiring Diagrams and Specifications



TECHNICAL NOTES

- To avoid ESD (electro-static discharge) from interfering with the operation of the Door • Gard, ground the negative terminal of the keypad to earth ground. If the power supply can not be grounded, then the case should be grounded.
- When using this device to operate an electric locking device you must install either the diode for DC voltage or the MOV for AC voltage (as shown in diagrams). They should be installed as close to the lock as possible. Installation of these devices will prevent the "electrical kick back" voltage generated by the locking device from damaging the keypad.
- If you are using AC voltage to power your Door Gard you must install the MOV and appropriate resistor across your input voltage. Installation of these devices will help filter any "surges" or "transients" from the AC voltage source (as shown in diagrams) which could damage the keypad.
- The bi-color LED provided with this Door Gard will illuminate red when the Lock Release Relay is off, and green when the relay is energized.
- When mounting this unit outside, apply silicone to the area where wires enter the case. This will help prevent warm air from condensing on the circuit board.
- For use in extreme weather conditions, please consult the factory for additional methods of protecting your Door Gard from the environment.

SPECIFICATIONS:

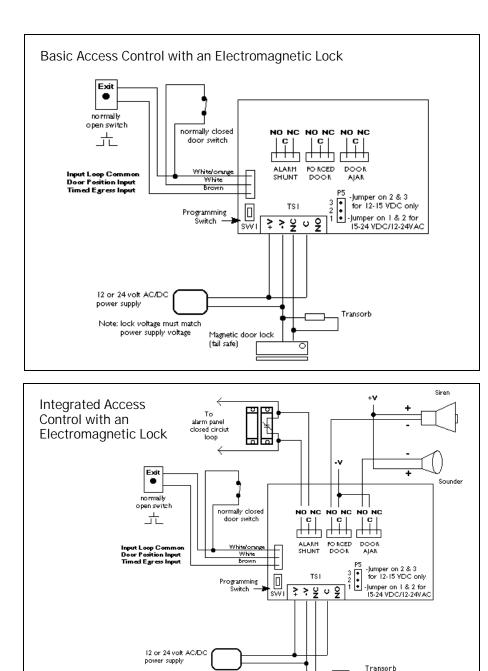
```
MECHANICAL:
CASE DIMENSIONS:
1.75"w x 4.50"h x 1.55"d
ELECTRICAL:
VOLTAGE:
12 to 24 volts AC or DC (selected by jumper)
CURRENT:
@12VDC 20ma typical–50ma worst case
@24VDC 25ma typical–70ma worst case
Note: keypads using additional relays require an additional 15ma for each
relay energized.
OUTPUTS:
Main relay: 8 Amp, Form-C @24VDC– 10 Amp surge
Alarm Zone Shunting Relay: 1 Amp, Form-C @24VDC
Forced Door Relay: 1 Amp, Form-C @24VDC
Propped Door Relay: 1 Amp, Form-C @24VDC
```

ENVIRONMENTAL:

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

- To speed installation, holes have been spotted on the inside back of the housing for mounting to a wall or single-gang electrical box.
- Holes have been spotted on inside front of the housing for the addition of extra LED's (not included).
- If a door position sensor input is not used, it must by jumpered closed.

PACKING CHECKLIST 233 CARD READER 233 PROGRAMMING KEYPAD THREE CONDUCTOR WIRING HARNESS (4) FOUR CONDUCTOR WIRING HARNESS (2) SLOTTED SCREWS (2) ALLEN HEAD WRENCH (1) M.O.V. (2) 100Ž Resistor (1) 10Ž Resistor (1) 10Ž Resistor (1) IN4004 diode (1) FEATURES AND PROGRAMMING GUIDE WARRANTY CARD



Note: lock voltage must match

power supply voltage

Magnetic door lock (fail safe)

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