

# Wiring Rules

These modules are intended for installation within the UL Listed enclosure model UL-ENCL for UL 294 and UL 1076.

Do not remotely ground any part of the input sensor wiring.

Remote grounds connected to the return terminal could make the system operate incorrectly or damage the equipment.

The signal return is not true earth ground. It is an electronic reference point necessary to interpret the sensor properly.

For reliable operation, follow these wiring guidelines:

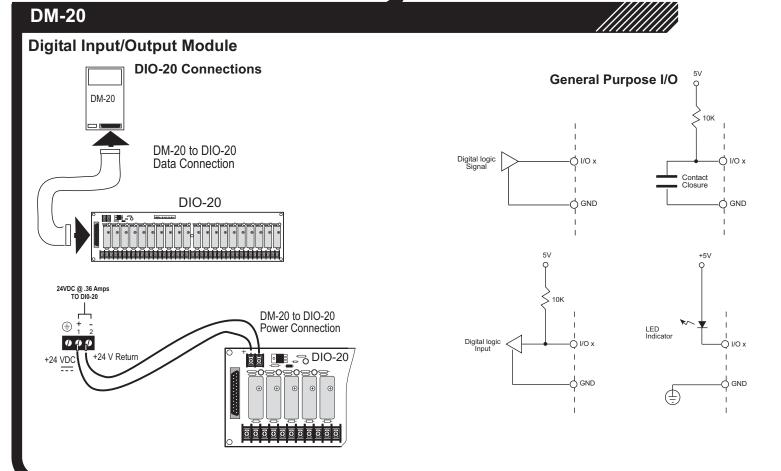
- · Never lay wires across the surface of a printed circuit board.
- Wires should never be within 1 in. or 25 mm of any component on a printed circuit board.
- · Use shielded wire.
- Terminate the shield of the wires at one end of the run only—preferably at the end where your I/O module is located.
- Be careful when stripping wire not to drop small pieces of wire inside the cabinet.
- · Don't run your wiring in the same conduit with AC power.
- Don't run your input wiring in the same conduit with your output wiring.

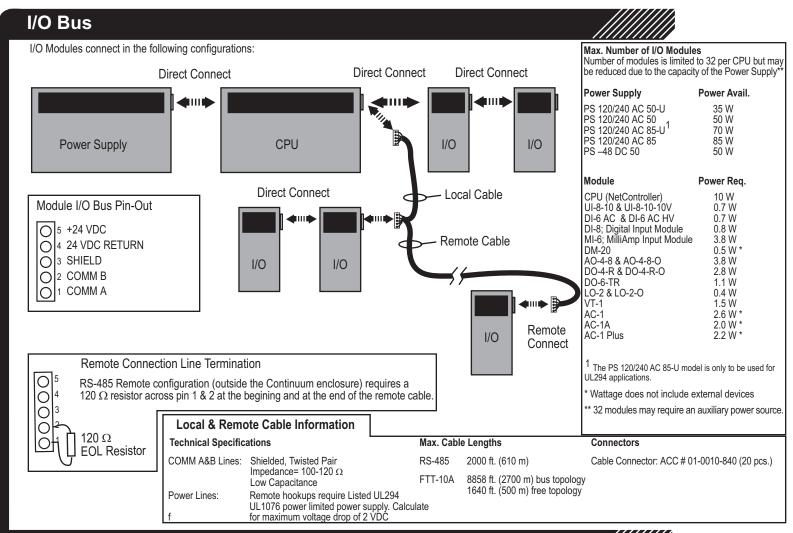
# **Grounding the Modules**

Some modules include an integral ground clip. All modules include a screw terminal connection for earth ground. It is important that this connection be made as close to the module as possible.

### Caution

Do not externally ground any input signal. This may damage the unit. Signal return terminals are not connected to earth ground.





# UI-8-10 / UI-8-10-10V

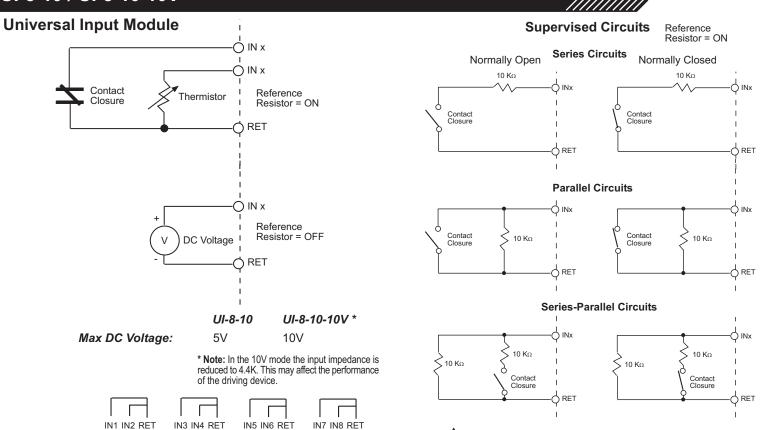
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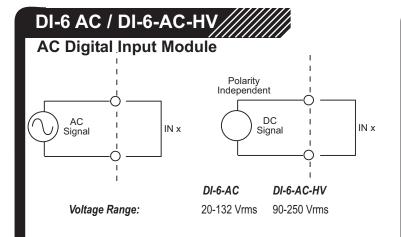
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10 11 12



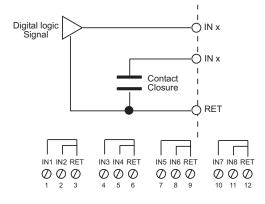
Caution: Earth ground (😑) must be

connected to avoid module damage



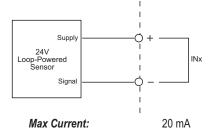
# DI-8

# **Digital Input Module**



# MI-6

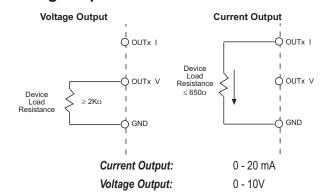
# MilliAmp Input Module



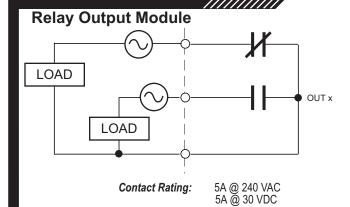
Voltage Supply to Sensor: 19 - 26V

# AO-4-8 / AO-4-8-O

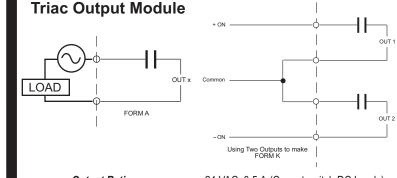
# **Analog Output Module**



# DO-4-R / DO-4-R-O



# DO-6-TR



**Output Rating:** 24 VAC, 0.5 A (Cannot switch DC Loads)

OVERRIDE

· YEL

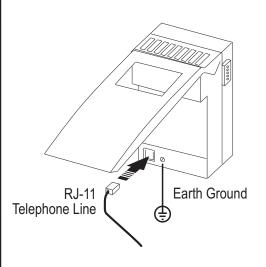
Minimum Load Current: 30 mA

**Override Switch Connections** 

Indicato

# VT-1

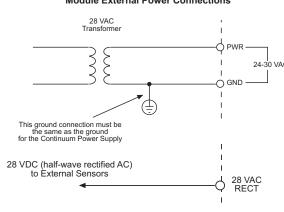
### **Voice Telecom Module**



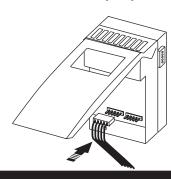
# LO-2 / LO-2-O

# **Lighting Output Module**

# **Module External Power Connections**



**External Relay Assy. Connections** 



### **Output Rating:**

Lamp Load – 20 Amp Tungsten Filament @125 VAC
Resistive Load – 20 Amp Ballast @ 277 VAC (20 amp @347 VAC, Canada)
Motor Load – 0.5 Hp @ 110-125 VAC
0.5 HP @ 220-277 VAC (0.5 Hp @ 347 VAC, Canada)

# –⇔ BLK

For more information on these Andover Continuum products, see the I/O Systems Reference, 30-3001-499, and the Power Supply Reference, 30-3001-702. For documentation specific to Underwriters Laboratories (UL) evaluation, see the Note below.



UL 916 Listed product for the United States and Canada, Open Energy Management Equipment.





UL 294 (Access Control System Unit Subassemblies for the United States) and UL 1076 (Proprietary Burglar Alarm System Unit Subassemblies for the United States) and C22.2 No. 205-M1983 (Signal Equipment for Canada)

**Note**: Refer to the UL Listed Access Control/Proprietary Burglar Alarm System's installation manual (the *UL294 Access Control and UL 1076 Proprietary Burglar Alarm Systems Reference*, 30-3001-504) for specific wiring, operation, and compatibility

Note: Only these products mentioned in this document are evaluated by UL for UL 294 and UL 1076 applications:

UI-8-10 UI -8-10-10V DI-8 (UL294 only) DO-4

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