

## **R10DR RELAY OUTPUT MODULE INSTALLATION AND OPERATING INSTRUCTIONS**

**CAUTION:** BEFORE INSTALLING OR REMOVING ACCESSORY MODULES, DISCONNECT POWER TO THE SOLIDYNE CONTROLLER YOU ARE USING. FAILURE TO REMOVE POWER WILL RESULT IN DAMAGE TO THE CONTROLLER.

### **DESCRIPTION**

The R10DR relay output module is designed for use specifically with the CLIPPER™ Building Automation System (models 8008SP and 8008LAN/P) and the PneumaPulse (model 3255) pneumatic interface module. The R10DR module provides normally open relay contacts for switching of the PneumaPulse module. The R10DR is wired directly to the CLIPPER controller and can be located several thousand feet away (distance depends on the gauge of wire used). The R10DR is designed for use where DIN rail mounting is required.

### **SPECIFICATIONS**

**Model number:** 00-R10DR

**Input voltage:** 10-14 Volts DC

**Operating temperature:** 0° F to 160° F

**Storage temperature:** -40° F to 160° F

**Contact rating:** 0.5 Amps resistive @120 VAC

**Dimensions:** 1.05 x 3.75 x 1.65 inches

### **INSTALLATION**

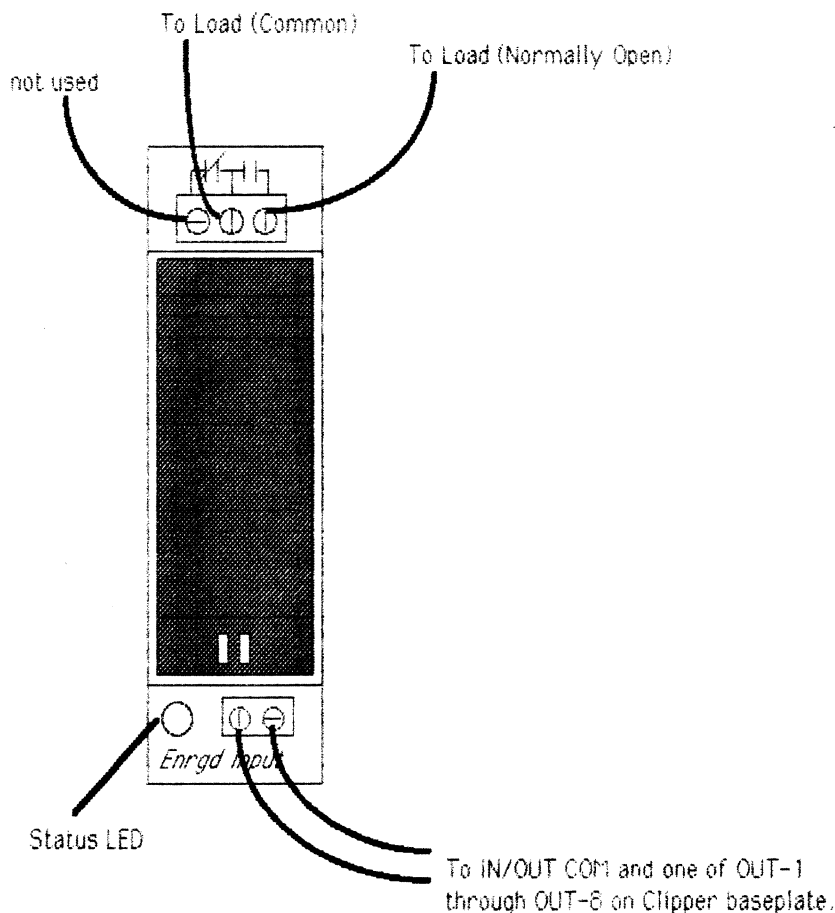
#### **Some Basic Installation Rules**

- Disconnect power to the CLIPPER controller prior to connecting any accessories.
  
- Discharge any static charge you may have accumulated by touching building ground before touching any terminals on the CLIPPER controller.

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## Wiring the R10DR to the CLIPPER Controller

The R10DR is wired as shown in figure 1. The two terminals on the terminal block marked **Input** must be wired to the Clipper controller's baseplate. These input terminals are not polarized, so the order in which they are wired to the Clipper controller is not important. One of the R10DR input terminals must be wired to the terminal on the Clipper baseplate marked **IN/OUT COM**. The other R10DR input terminal must be wired to one of the terminals marked **OUT-1** through **OUT-8** on the Clipper baseplate.



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Figure 1 - R10DR wiring

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18 gauge wire is recommended for connection between the R10DR and the Clipper controller. If 18 gauge wire is used, the R10DR can be located up to 2000 feet from the controller. This maximum distance will decrease by 20 percent for each two unit increase in gauge number.

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## Connecting the PneumaPulse to the R10DR

To connect the PneumaPulse to the R10DR attach the COM and N.O. terminals at the top of the R10DR (side opposite the LED) to the PneumaPulse. These wires are used to switch the PneumaPulse, and are attached as shown in figure 1 and 2. Note that the PneumaPulse requires an external 24 volt DC power supply (see the PneumaPulse instruction sheet for more information).

## Mounting and Operation

The R10DR module will snap directly into a standard DIN rail, no other hardware is required.

Once installed, the operation of the R10DR may be checked by observing the status LED next to the input terminal block. When this LED is lit the R10DR relay is energized.

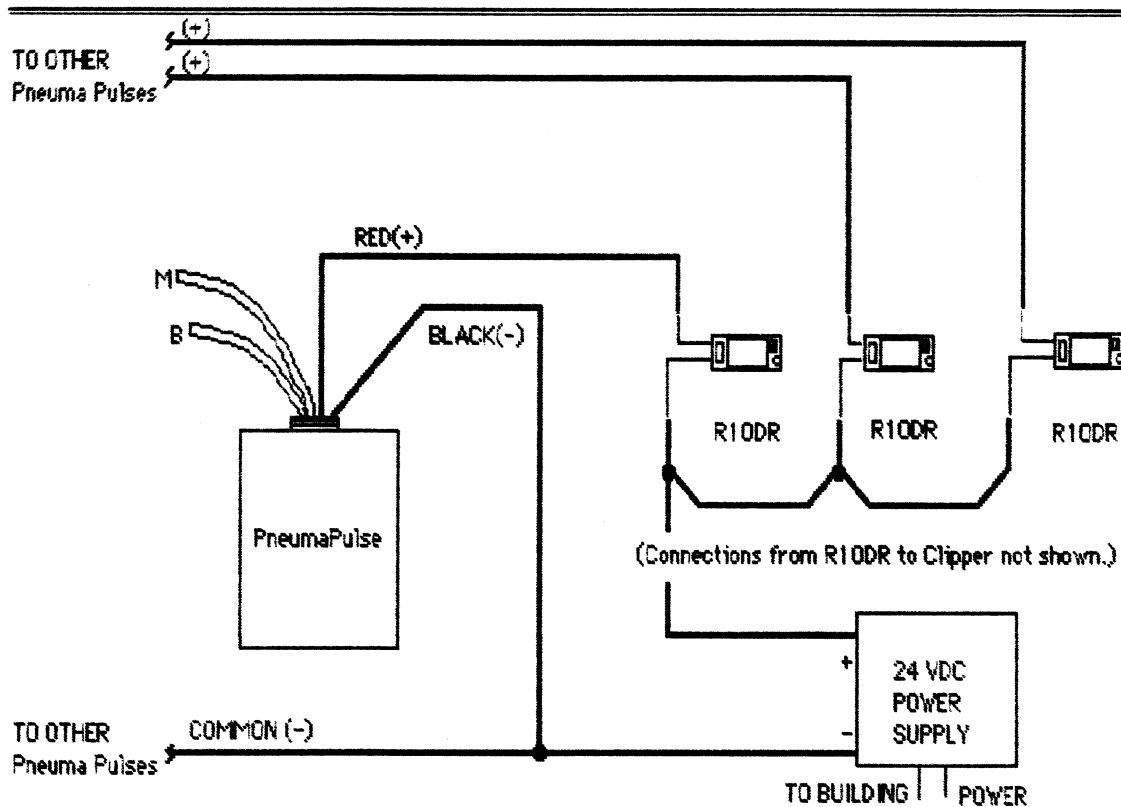


Figure 2 - R10DR wiring