

DATA SHEET

Solenoid Points Control Module SD-002

The SD-002 Solenoid Points Control Module provides connection to two sets of points from the SD-001 central control unit. It is designed to work with points that are solenoid operated. It requires separate power supply for operation. This gives a choice of operating voltage, independent of other components, to give reliable points switching.

Specifications:

- Controls two sets of solenoid actuated points
- Input Voltage – 12-16 Volts DC from separate source
- Input Signal – Branch or Straight for each set of points from decoder module
- Switching uses the capacitor/resistor timing to protect solenoid coils from burn-out

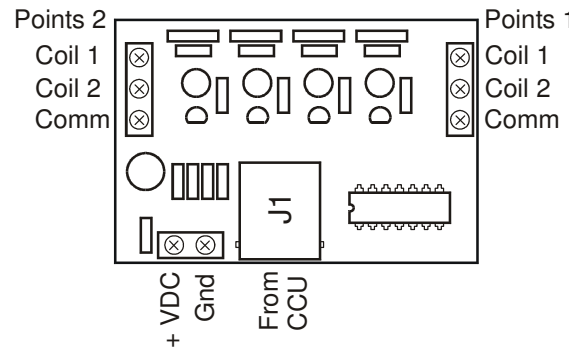


Figure 1 Points Control Module

INSTALLATION

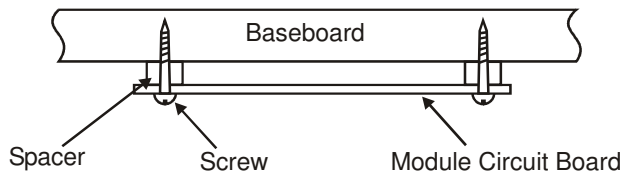


Figure 2 Module Mounting

Mount the Module in a position central to the points to be controlled. Use the screw holes provided in the board to mount it but do not fix the screws too tightly or the board may be damaged.

The use of spacers as shown in Figure 2 is recommended.

Connect the points control module J1 to the required output of central control unit, using

telephone style connectors and cable. The type of connector and cable is described later in this data sheet.

Connect power (12-16 V DC) to the positive (+) and ground terminals, as shown in Figure 1.

Connect one end of each solenoid to the common output terminal, and the other end of each coil to the Coil 1 and Coil 2 connections, as shown in Figure 1, for each of the two sets of points.

The points will switch to a default position when power is applied to the control system. This provides a known starting position each time the layout is powered up. If this position is not as desired, swap the Coil 1 and Coil 2 wires for that set of points and the default position will be changed to the opposite switching.

If wiring two sets of points installed as a cross over, that are always switched together, they may be both connected to one output. In this case the full 16 V DC supply may be required. Do not connect more than two sets of points to an outlet.

CONNECTING TO CENTRAL CONTROL

Connecting from the central control unit to the points control module is done by using four core telephone cable fitted with RJ11 connectors. Cables of the correct length and orientation are required.

The signals assigned to the pins of the RJ11 connector are detailed in Figure 3.

As the connector pins have the same orientation on both the decoder and the control modules, it is necessary to reverse the connectors on the cable, as shown in Figure 4.

Cables can be made with the use of a crimping tool or purchased, in either case ensure that they are the cross over type.

To make the connection, simply plug one end of the cable into the decoder and the other into the signal module.

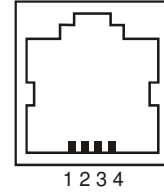
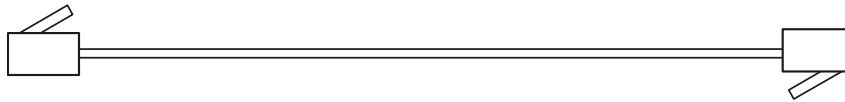


Figure 3 RJ11 Pins



The plugs are reversed

Figure 4 Cable Orientation