

320IS Timer Relay Instruction Sheet

The 320IS Timer Relay option is classified as open equipment and must be mounted as instructed in an enclosure during operation to provide safety protection.



Manuals can viewed or downloaded from the Rice Lake Weighing Systems website at www.ricelake.com.

Installation Instructions

1. Slide socket onto 2.5" section of Din rail.
2. Secure Din rail and socket to the back plate of the I/O Module using the two 8-32NC X 3/8 screws provided in parts kit. (See Figure 3 on page 1)
3. Wire 120V power (Line & Neutral) to pins 2 and 7 of the socket.
4. Wire start switch (N/O) to pins 4 and 1 on the socket.
5. Wire pins 3 and 1 on the socket to 320IS contacts K1 (1 and 2).
6. Source field voltage to pin 8 on the socket.
7. Wire pin 6 to line of field device.



Note Refer to Multifunction Digital Timer Manual for field wiring and set-up information.



Note Connect neutral to other side of field device (Same as field source neutral)

8. Line up the pin numbers of the socket and the timer relay and attach the relay to the socket.
9. Apply power.
10. Insert the cable tie arrow head mounts into two of the five holes (see Figure 3).
11. Use the cable ties provided in the parts kit to secure the wires to the cable tie mounts.

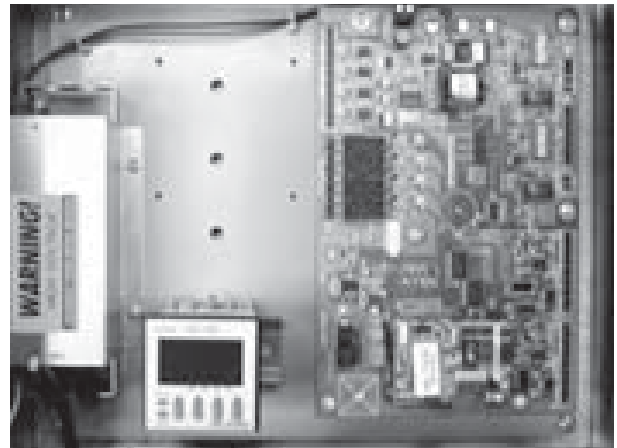


Figure 2. Relay Installation

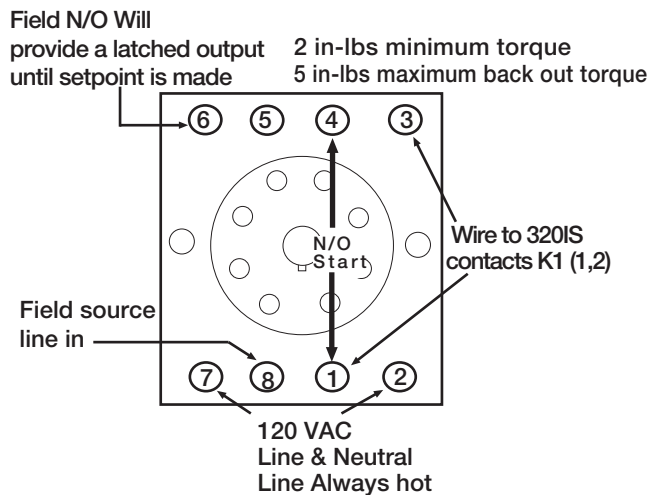


Figure 1. Relay Socket Pins

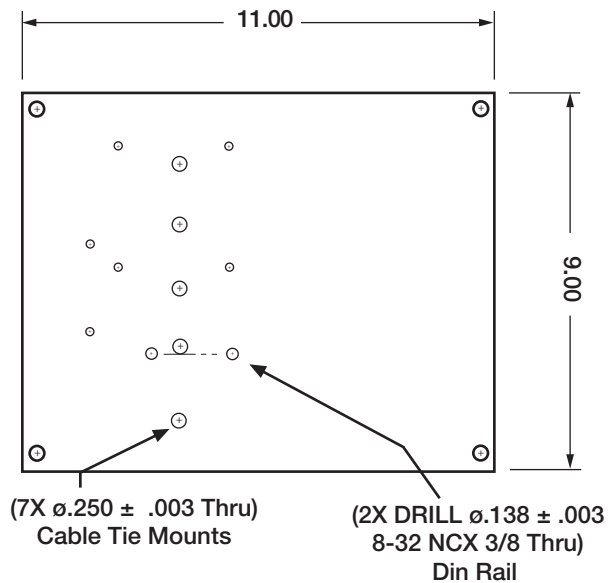


Figure 3. I/O Module Back Plate

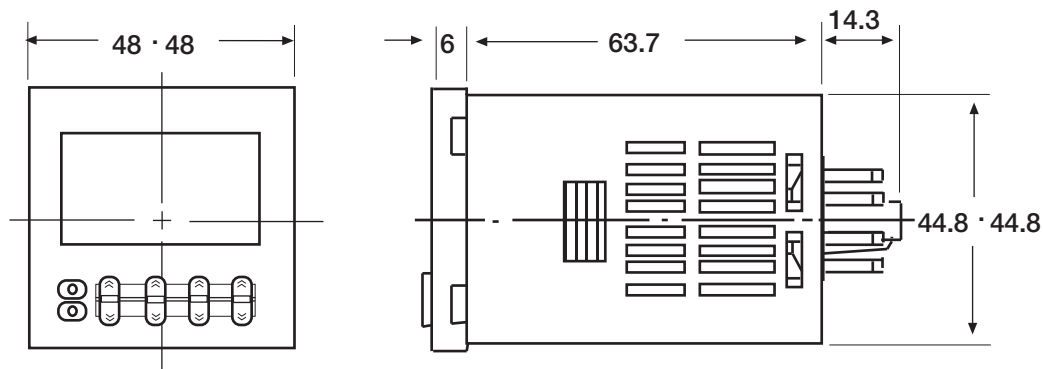


Figure 3-1. Relay Dimensions

Purpose

The timer relay is a latching device that allows a continuous (free running) setpoint output to be held until a start input is received.

Example

Setpoint 1 is set to a value of 1000, trip lower. The relay of the I/O module is active until 1000 is achieved. The timer relay becomes active with a start input from an external source. Once the setpoint value is achieved the timer will deactivate and, even though the I/O relay wired to it will become active again below the setpoint value, the timer relay will remain deactivated until the next start command.

Specifications

Electrical Ratings

Power Consumption: 100...240VAC
24V AC/12...24VDC
4.3 VA
3.4 VA/1.7 W

Inputs: Input signals: Start, reset
Input method: No-voltage input
via NPN transistor or switching of contacts
Start, reset, gate: Minimum input signal width - 1 or 20 ms (selectable)
Power reset: Minimum power-opening time - 0.5s (Except for A-3, B-1, and F-mode)

Enclosure

Weight: Approx. 100 g
Enclosure Ratings: Panel surface - IP66 and NEMA Type 4 (indoors)*

Approval Standards

UL508, CSAS C22.2 NO.14
Conforms to EN61010-1/
IEC61010-1
(Pollution degree 2/over voltage category II)
Conforms to VDE0106/P100 (Finger Protection), conforms to NEMA output rating (N/F)

Mechanical

Display: 7-segment, negative transmissive LCD; Present value (red, 8 mm high characters); Set value (green, 4 mm high characters)

Digits: 4 digits

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