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Instruction Bulletin

Subject: **SY/MAX[®]**
CLASS 8030 TYPE HIM-131
12-24V AC/DC 8 FUNCTION INPUT MODULE

DESCRIPTION

The Type HIM-131 12-24V AC/DC Input Module contains eight optically isolated inputs which are capable of receiving signals from such input devices as limit switches, pushbuttons, selector switches, and solid state logic circuits.

Each of the eight inputs has a red LED indicator on the front of the module which illuminates when receiving an 'ON' signal from the input device (proper voltage applied at the wiring terminal). A marking area is provided next to each LED for input identification by the user.

SPECIFICATIONS

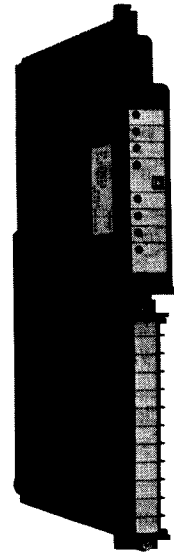
Inputs per Module 8
 Type and Rated Isolation
 between Input Terminal and
 Logic..... Optical: 2500 V RMS
 Voltage Operating Range 10-28 VAC (50/60 Hz) or
 VDC
 † Current Operating Range 7-25.4 mA
 Must Turn On Voltage 9.5V
 Must Turn On Current..... 7.0 mA (at 9.5V)
 Must Turn Off Voltage..... 3V
 Must Turn Off Current..... 1.5 mA (at 3V)
 Input Impedance 940 ohms resistive
 Turn On Time..... 8 ms nominal
 Turn Off Time 8 ms nominal
 LED Operation Indication... Red LED illuminated when
 input module is receiving
 'ON' signal from field input
 device.

Rated Module Current Draw
 on SY/MAX Power Supply.. 65mA per module at 75%
 Duty Cycle
 70mA per module at 100%
 Duty Cycle

Ambient Temperature Rating..... 0-60°C
 Humidity Rating..... 0-95% non-condensing
 Weight (unpackaged) 1.1 lbs/.5 kg
 Rack Assemblies In Which
 Module May Be Used HRK-100, HRK-150,
 HRK-200

Compatibility With Output
 Modules HOM-211, HOM-241,
 HOM-271, COM-241,
 COM-271, COM-281,
 DOM-241

Detachable Terminal Blocks CBP-110
 Ten Terminal Labels CBP-109



TYPICAL WIRING

Input device wiring is done to the terminal block on the front of the input module. This terminal block is removable so that the module can be replaced without disturbing the wiring. Figure 1 illustrates typical wiring for the Type HIM-131 Input Module. The '1A' terminal is the common terminal for the first four inputs (numbered 1 through 4). The '2A' terminal is the common terminal for the second four inputs (numbered 5 through 8). If a single voltage supply is used for more than one group of four inputs, the 'A' terminals for each group may be connected together.

NOTE: Surge Suppressor only required when inductive load is in parallel with programmable controller input.

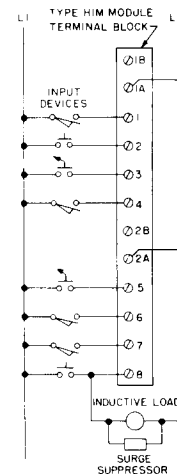


Figure 1 - Typical Wiring

APPLICATION CONSIDERATIONS

- In those applications where an inductive load such as a motor starter or solenoid is wired in parallel with a Type HIM-131 Input Module, a suppressor must be installed as indicated in Figure 1. A typical suppressor for 24V AC operation consists of a 0.5 mfd, 400 volt capacitor with a 220 ohm resistor in series.
- Each terminal will accept up to two #14 AWG wires.
- If the off state leakage current of the input device connected to the Type HIM-131 Input Module is greater than 1.8 mA, consult the factory for recommended signal conditioning.
- When using the Type HIM-131 Input Module with DC voltage inputs, either polarity may be used, e.g. Terminal 1(+) and Terminal 1A(-) or Terminal 1(-) and Terminal 1A(+).
- A hinged plastic flap covers the wiring terminals on the front of the module. Labels are provided for both sides of this flap. See Figure 3. The label to be placed on the outside of the flap has eight marking areas for identifying output devices, wire numbers, etc. Labels for the inside of the flap have terminal numbers, either 1 through 8 or 9 through 16. If the module is inserted in an ODD number slot, the label numbered 1 through 8 is placed on the inside of the flap. If the module is inserted in an EVEN number slot, use the label numbered 9 through 16. See Figure 4.

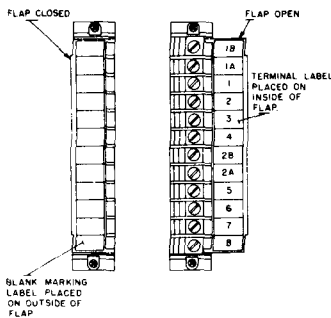


Figure 3
I/O Terminal Labels

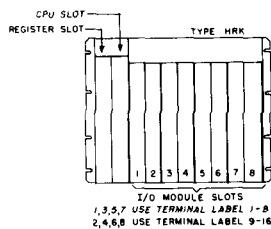


Figure 4
Terminal Label Placement

- Depending on the size and routing of wiring to the I/O terminals, it may be necessary to remove an adjacent terminal strip before removing an I/O module.

MODULE KEYING

Each socket on the I/O rack assembly may be keyed to accept only one type of I/O module. An optional keying pin kit, Class 8030 Type CBP-104, is available for this purpose. The correct position of the keying pin for the Type HIM-131 12-24 V AC/DC Input Module is between pins 8 and 10 (see Figure 5). The keying pin is simply inserted manually into the slot in the rack connector using the keying pin insertion tool provided with the kit. See Figure 6.

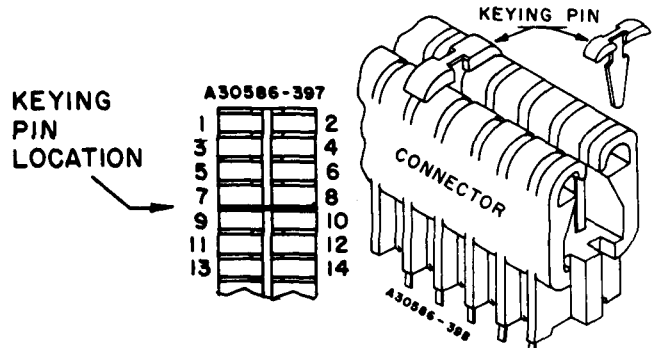


Figure 5
Keying Pin Location

Figure 6
Keying Pin Insertion

CAUTION: When inserting or removing the keying pins, use care to avoid touching the contact fingers within the connector. Improper insertion/removal may damage the connector

INSTALLATION INSTRUCTIONS

If desired, insert the key mentioned above into the appropriate I/O rack slot. Then insert the input module into the same slot (holding the module's pull tab in a horizontal position as the module is inserted). Tighten the captive screw on the bottom of the module. Lower the latching clamp to secure the top of the module.

SIMPLIFIED SCHEMATIC OF MODULE

Figure 7 illustrates one of the eight circuits within the module. The terminal marked 'A' is common to four of the module's eight circuits.

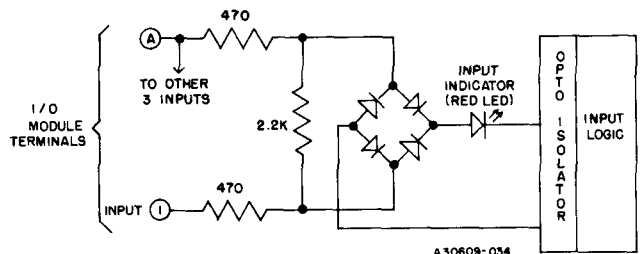


Figure 7
Simplified Schematic of One Input Circuit



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