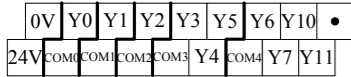
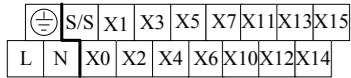
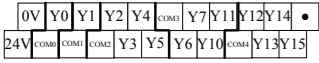
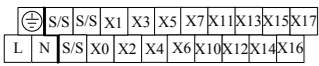




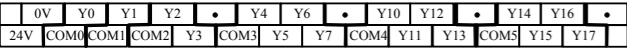
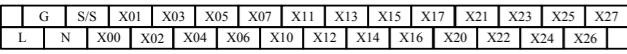
Terminal definition of the H1U -1410MR-XP, H1U -1410MT-XP



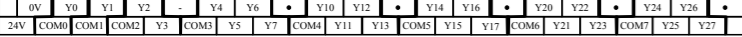
Terminal definition of the H1U -1614MR-XP, H1U -1614MT-XP



Terminal definition of the H1U -2416MR-XP, H1U -2416MT-XP



Terminal definition of the H1U -3624MR-XP, H1U -3624MT-XP



Note: The terminals in the thick line isolation circle belong to a group on the output side. For example: Y0/COM0 is a group and Y1/COM1 is a group.

Terminal wiring specification: 22-14AWG wire.

The terminal block of the PLC models mentioned above is detachable. To detach a terminal block, loosen the screws on both sides of the terminal block by a screwdriver. It's suggested that you loosen one screw about half and then loosen the other one. Alternately loosen them until both are completely loosened. Then gently raise up the terminal block. Remember not to loosen the two screws one by one.

To mount a terminal block put terminal pins into correct position and then slightly tighten one screw. After ensuring the screw doesn't fall off, tighten the other one. Alternately tighten them until they are fixed. During the process, insert the two sides of the terminal block as balanced as possible. Otherwise, terminals may damage, which may cause bad contact or short circuit.

Communication Interface Definition:

The main PLC unit provides three communications ports. COM0 hardware is standard RS422. The terminal interface is Mini-DIN8 socket. COM1 hardware is standard RS485. The third communication port is the mini USB. You can download programs through COM0 or USB.

Table 4 COM0 Port Definition

Table with 4 columns: Pin No., Signal, Description. Rows include RXD-, RXD+, GND, TXD-/RXD-, +5V, CCS, TXD+/RXD+, NC.

Power Supply Specification

Table 5 Power Supply Circuit Specification

Table with 6 columns: Item, Unit, Min. Value, Typical Value, Max. Value, Remark. Rows include Rated operating voltage, Voltage limit, Input current, Input power, 24VCC/COM.

Output3 in Table 5 provides external power supply to input terminals of the main module. During the system configuration, do not supply power to expansion modules or other devices through Output3 as possible as you can. If you do it, make sure the supply doesn't exceed the maximum capacity of Output 3.

Input Specifications

Table 6 Input Specifications

Table with 4 columns: Item, Hi-speed Inputs X0-X5, General Inputs. Rows include Signal input mode, Electrical parameters, Filter Function, Hi-speed Function, Common Connection Terminal.

Note: S/S connecting to 24V+ or COM determines the Sink or Source input mode. The connecting mode is effective to all input points' signals of the main module.

Output Specifications

Table 7 Output Specifications

Table with 4 columns: Item, Relay outputs, Transistor outputs. Rows include Circuit Voltage, Circuit Insulation, LED, Leakage current during open circuit, Min. load, Max. output current, ON response delay, OFF response delay, High-speed output frequency, Output common ports, Fuse protection.

Internal equivalent circuit

PLC has a built-in power supply (DC24V) to detect user switch status, so you only need to connect input signals of dry contact. OC output type is needed if you connect an active transistor or sensor.

PLC signal input and internal equivalent circuit are shown as Figure 5 and Figure 6. User's circuit and PLC internal circuit are connected by the terminal. Figure 5 shows the Sink input mode, determined by short connection of "S/S" and "24V" terminals.

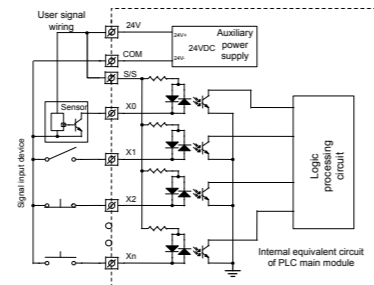


Fig. 5 Sink Input Connection

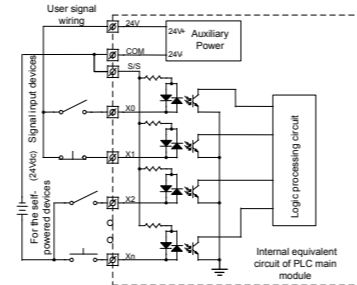


Fig. 6 Source Input Connection

In some special applications, Source input mode may be required. The equivalent input circuit of such mode is shown as Figure 6. The "S/S" and "COM" terminals are shortly connected.

Figure 7 shows the internal equivalent circuit of the relay output module. The output terminals are divided into several groups, and the groups are electrically insulated. The output contacts of different groups are connected with different power circuits.

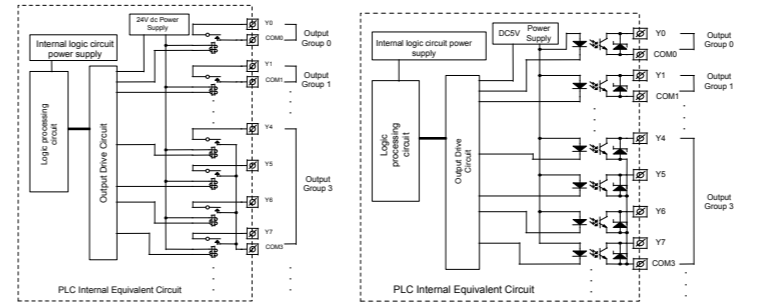


Fig. 7 Relay Output Equivalent Circuit

The internal equivalent circuit of transistor output is shown as Figure 8. The output terminals are divided into several groups, and the groups are electrically insulated. The transistor output can be used for DC24V load circuit only.

For the inductive load in AC circuit, you need add a RC component instead, and for the inductive load in DC circuit, you need add a freewheeling diode, as shown in Figure 9.

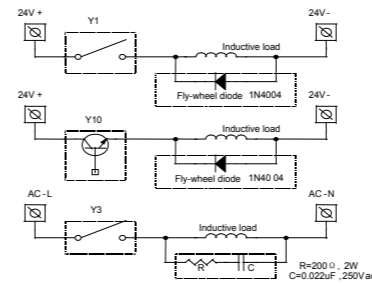


Fig. 9 Diagram for Inductive Load Absorbing Circuit

Programming

Soft component arrangement and power-off retentive description.

Table 8 Soft Component Arrangement

Table with 5 columns: Component, H1U-0806M-XP, H1U-1410M-XP, H1U-1614M-XP, H1U-2416M-XP, H1U-3624M-XP. Rows include Input Relay X, Output Relay Y.

Table with 4 columns: Component, [M0-M383], [M384-M1535], M8000-M8255. Rows include Auxiliary Relay M, State, Timer, Counter, Data Register D, Nesting Pointer, Countants.

Retentive soft components in the H1U Series PLC hold their value permanently, meaning the value of retentive components is not lost at power down. Real-time clock keeps running for 15 days or longer with the precondition that the power-on time of the main module must be longer than 5 minutes.

Model and Order Index of H1U Related Products

Table with 4 columns: Model, Name, Type, Order No. Lists various PLC models and their specifications.

INOVANCE Warranty Agreement

- 1) Inovance provides an 18-month free warranty to the equipment itself from the date of manufacturing for the failure or damage under normal use conditions.
2) Within the warranty period, maintenance will be charged for the damage caused by the following reasons:
a. Improper use or repair/modification without prior permission
b. Fire, flood, abnormal voltage, natural disasters and secondary disasters
c. Hardware damage caused by dropping or transportation after procurement
d. Operations not following the user instructions
e. Damage out of the equipment (for example, external device factors)
3) The maintenance fee is charged according to the latest Maintenance Price List of Inovance.
4) If there is any problem during the service, contact Inovance's agent or Inovance directly.
5) Inovance reserves the rights for explanation of this agreement.

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