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Digital I/O Rail 45C1

Typical industrial PLC Input/Output systems are mounted on a panel or to a cabinet and wired to an intermediate terminal strip. The Reliance Electric I/O system eliminates the need for this costly wiring method.

By incorporating an industrial quality terminal strip – with all the standard terminal strip features – into the I/O rail itself, the intermediate wiring, and the cost of the added labor are eliminated.

1. Modular Design – The modular design of the AutoMate I/O allows the system to be closely tailored to the actual requirements.
2. Mounting Flexibility – The I/O rails and processor may be mounted in a vertical column to fully emulate a terminal strip, or they may be mounted side-by-side or in other arrangements to suit the available space.
3. Standard Screw Terminals – The terminal strip uses standard self-lifting pressure plate wire terminals that allow two #12 gauge stranded wires to be fastened to each terminal.
4. Two Screw Terminals Per Channel – Each I/O channel or point is provided with two screw terminals, thus allowing separate electrical commons. If the application requires the commons to be tied together, an optional jumper strip is available.



Digital I/O Modules

The design and construction of the AutoMate I/O Modules is a direct response to PLC users who have found that many currently available I/O systems and components do not stand up to industrial service. Industrial applications hold many hazards for electronic devices, such as high temperatures, high humidity, high current loading (output circuits), electrical noise, and vibration.

Outputs Rated 2 Amps @ 60˚C. Voltage levels include:

M/N	Description
*45C60	115 VAC
*45C62	230 VAC
*45C63	24 VDC
*45C65	24 VAC
*45C66	Hi Pwr Contact, N.O.
*45C166	Hi Pwr Contact, N.C.
*45C67	24 VAC
*45C68	250 VDC (0.5 amps)
*45C69	Low Power Contact

Each output circuit is electrically isolated and each output module is built to endure an inrush of 20 amps for 0.1 second.

Optically Isolated Inputs

All input logic level circuits are optically isolated from field signals. These high threshold circuits will not energize until a pre-determined voltage is reached, to prevent triggering by false signals from external interference. Input module voltage ratings include:

M/N	Description
*45C40	115 VAC/DC
*45C42(1)	Dual Electronic Input
*45C43	230 VAC/DC
*45C44	24 VAC/DC
*45C46	Voltage Comparator*

*Voltage Comparator Module

This module compares two analog voltage signals and sends the logical results to the processor. It can also compare an external voltage to a preset reference voltage determined by the user. Both greater-than and less than comparisons are made.

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