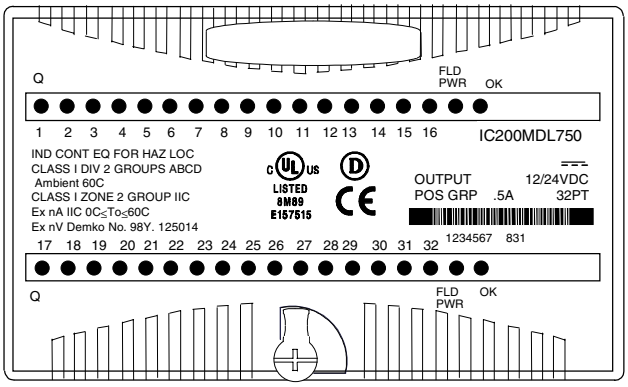
IC200MDL750
Output Module, 12/24VDC Positive Logic 0.5 Amp, 32 Points

Discrete output module IC200MDL750 provides two groups of 16 discrete outputs. The outputs are positive or sourcing type outputs. They switch the loads to the positive side of the DC supply and thus supply current to the loads.



Note: 12V output functionality requires module version IC200MDL750B or higher.

An external DC power supply must be provided to switch power to the loads.

Intelligent processing for this module is performed by the CPU or NIU. The module receives 32 bits of discrete output data.

LED Indicators

Individual green LEDs indicate the on/off state of the output points. Operation of these LEDs is dependent on field power but independent of load conditions.

The green FLD PWR LED is on when field power is applied to the module.

The green OK LED is on when backplane power is present to the module.

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Module Specifications

Module Characteristics	
Points	2 groups of 16 outputs
Module ID	80808080
Isolation: User input to logic (optical) and to frame ground Group to group Point to point	 250VAC continuous; 1500VAC for 1 minute 250VAC continuous; 1500VAC for 1 minute None
LED indicators	One LED per point shows individual point on/off state FLD PWR LED indicates field power is present OK LED indicates backplane power is present
Backplane current consumption	5V output: 90mA maximum
External power supply	+10.2 to +30VDC, +12/24VDC nominal
Thermal derating	See diagrams
Output Characteristics	
Output voltage	+10.2 to +30VDC, +12/24VDC nominal
Output voltage drop	0.3V maximum
Load current	0.5A at 30VDC maximum (resistive) 2.0A maximum for 100ms inrush
Output leakage current	0.5mA at 30VDC maximum
On response time Off response time	0.2ms, maximum 1.0ms maximum
Protection	No internal fuses

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Field Wiring

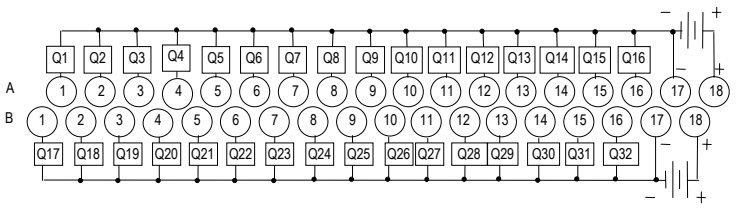
Terminal	Connection	Terminal	Connection
A1	Output 1	B1	Output 17
A2	Output 2	B2	Output 18
A3	Output 3	B3	Output 19
A4	Output 4	B4	Output 20
A5	Output 5	B5	Output 21
A6	Output 6	B6	Output 22
A7	Output 7	B7	Output 23
A8	Output 8	B8	Output 24
A9	Output 9	B9	Output 25
A10	Output 10	B10	Output 26
A11	Output 11	B11	Output 27
A12	Output 12	B12	Output 28
A13	Output 13	B13	Output 29
A14	Output 14	B14	Output 30
A15	Output 15	B15	Output 31
A16	Output 16	B16	Output 32
A17	DC -	B17	DC -
A18	DC +	B18	DC +

The 32 outputs form two groups, each with a DC+ and a DC- terminal.

When wiring outputs to inductive loads, use of external suppression circuits is recommended. See chapter 2, "Installing Wiring for I/O Devices-Wiring to Inductive Loads" for more information.

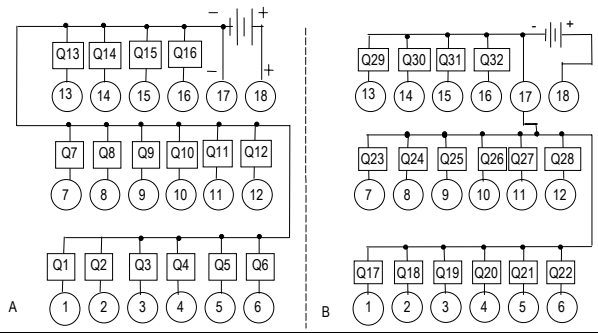
Wiring Connections for Carriers with Two Rows of Terminals

IC200CHS002, 005
IC200CHS012, 015



Wiring Connections for Carriers with Three Rows of Terminals

IC200CHS001, 022, 025
IC200CHS011



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Thermal Derating

The number of points that can be on at the same time depends on the ambient temperature, the external voltage, and the orientation of the module and DIN rail. The charts below show example thermal deratings for the module at 24VDC and 30VDC with the maximum output current per point.