

- 8 Power Relays per Module
- Suitable for Mains Switching (240V AC) up to 13A AC per Relay
- Front Panel Status LEDs
- Mechanical Power Relays are Socket Mounted For Simple Maintenance



Model 10-150-001 has 8 x SPDT (Changeover) Industrial Load Power Relays, suitable for switching highly inductive/capacitive loads.

Power Relay Modules are intended for switching heavy AC or DC loads or for slaving up to large external relays, contactors and solenoids.

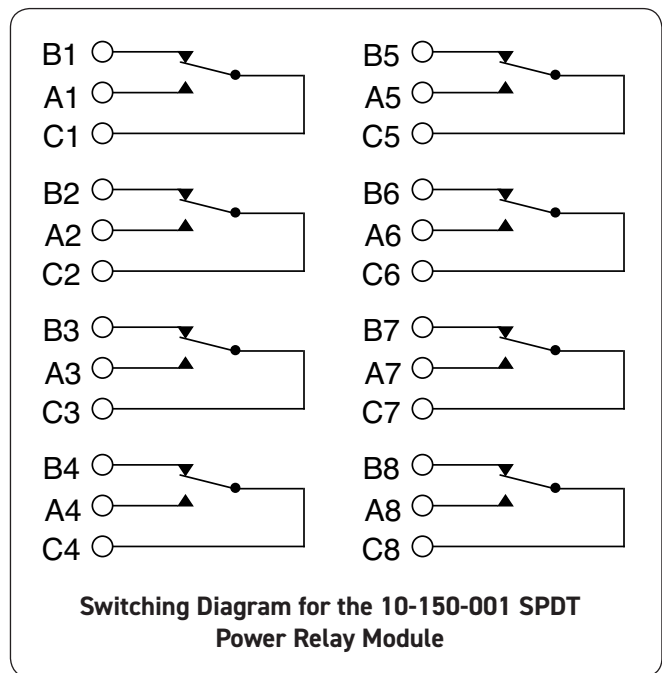
The 10-150 Power Relay Module is suitable for applications requiring switching of either mains voltage or heavy DC current.

### Programming

The module is simple to program either by single bit or by byte pattern (8 bits).

- ARESET a** Clear all outputs on module **a**
- CLOSE a,b** Set bit number **b** on module **a**
- DELAY t** Force a minimum delay of **t** milliseconds between two instructions
- OPEN a,b** Clear bit number **b** on module **a**
- RESET** Clear all bits/switches on all modules
- VIEW? a[,b]** View status of module **a**, can be viewed at any time either as a word or by bit **b** as a logical value (1 or 0)
- WRITE a,w** Send word **w** to module **a**

**\*Please contact Pickering for alternative PXI/LXI/USB solutions**



## Relay Type

The module is fitted with electromechanical relays.

## Switching Specification

Relay Type:	Electromechanical
Contact Type:	AgCdO
Contact Current Rating:	
Resistive Load:	13A at 250V AC 13A at 30V DC
Inductive Load:	13A at 250V AC 8A at 30V DC
Max Standoff Voltage:	600V DC
Max Switching Voltage:	250V RMS
Max Switchable Power Per Module:	8kW †
Max Switch Current:	13A
Max Carry Current:	13A
Contact Resistance - On:	<150mΩ
Contact Resistance - Off:	>1x10 <sup>8</sup> Ω
Bandwidth:	25MHz
Operate Time:	10ms maximum
Release Time:	7ms maximum
Expected Life	
Low power load:	>1x10 <sup>7</sup> operations
Full power load:	>1x10 <sup>5</sup> operations

† This is the power limit that any one module can carry over all of it's 8 channels.

## Mechanical Characteristics

The Power Switching Module conforms to the 3U height (128mm) Eurocard standard and is housed in a 160mm deep screened plug-in module. Panel width is 2.4 Inches.

## Connectors

Connections to the module's relays is via a 24-pin CPC circular plug mounted on the front panel.

## Operating/Storage Conditions

### Operating Conditions

Operating Temperature: 0°C to +55°C  
 Humidity: Up to 95% non-condensing  
 Altitude: 5000m

### Storage and Transport Conditions

Storage Temperature: -20°C to +75°C  
 Humidity: Up to 95% non-condensing  
 Altitude: 15000m

## Safety & CE Compliance

All modules are fully CE compliant and meet applicable EU directives: Low-voltage safety EN61010-1:2010, EMC Immunity EN61326-1:2013, Emissions EN55011:2009+A1:2010.

## Product Order Codes

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8xSPDT Power Relay Module	10-150-001
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## Mating Connectors & Cabling

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24-Pin CPC Socket with Pins	10-962-001
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## Product Customization

Pickering System 10 modules are designed and manufactured on our own flexible manufacturing lines, giving complete product control and enabling simple customization to meet very specific requirements.

Customization can include:

- Alternative relay types
- Mixture of relay types
- Alternative number of relays
- Different performance specifications

All customized products are given a unique part number, fully documented and may be ordered at any time in the future. Please contact your local sales office to discuss.