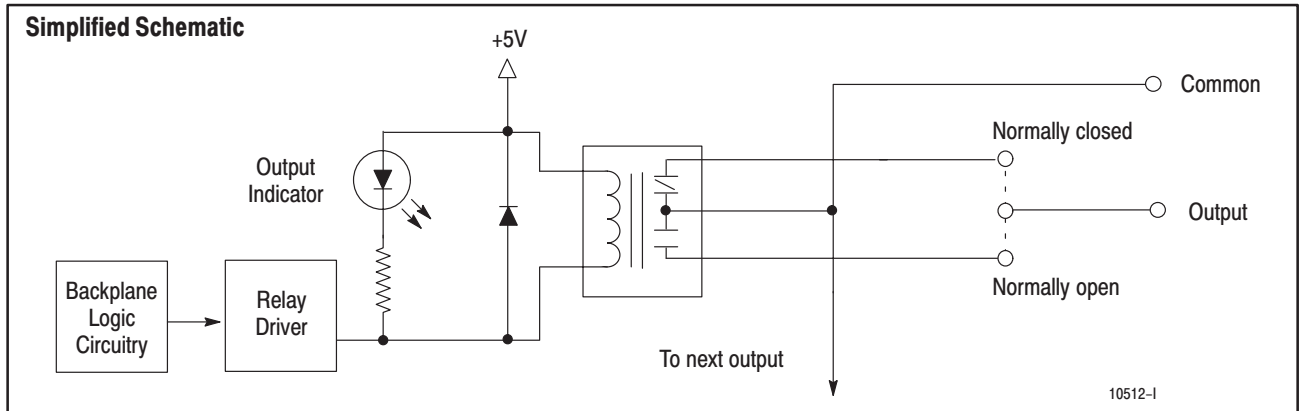


Selectable Relay Contact Output Module (Cat. No. 1771-OWN)



Application Notes

Load Type. 1771-OWN modules do not contain surge limiting circuitry. Use these modules for switching resistive loads only (e.g., lamps, indicators, heating elements). They are not recommended for inductive or capacitive loads (e.g., motor starters, solenoids, relays).

Isolation. Outputs on the 1771-OWN module are arranged in 4 groups of 8, each group with its own common. Each output is electrically isolated from module logic circuitry. The module can simultaneously switch all 32 outputs to separate loads, with a maximum of 12A per module. Each output can conduct a maximum load of 1.0A continuously at 30W maximum. AC loads switched by the modules should have a power factor of 1.0.

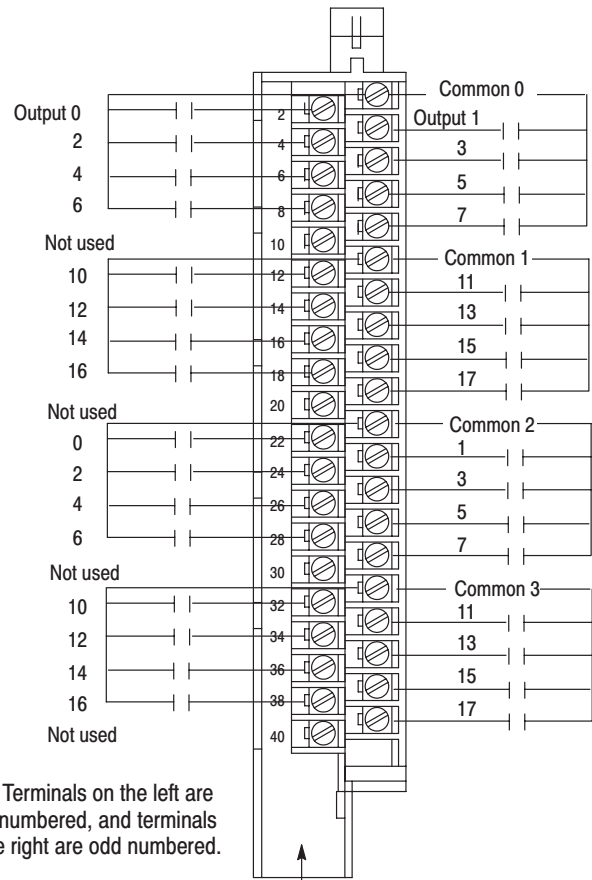
Connection to Input Modules. You can use the 1771-OWN module to drive an input of the following ac modules: 1771-IA, -IA2, -IAD, -IAN, -ID, -ID16, -IN, -IND. The 1771-OWN module can drive an input of the following dc modules at nominal voltage: 1771-IB, -IBD, -IBN, -IH, -IQ, -IQ16, -IT, -IV, and -IVN. For reliable operation, a load current of at least 10mA should be maintained.

No Increase from Parallel Operation. Do not attempt to increase load current or wattage capability beyond the rating by connecting two or more outputs in parallel. The slightest variation in output relay switching time may cause one set of the contacts to switch the total load current.

Configuring Output Selection. When the output image table bit at the address corresponding to any output is energized (set to 1), the corresponding relay contact is closed or opened, respective to the jumper setting.

All outputs are individually selectable for either normally-open or normally-closed operation. They are preset for normally-open operation at the factory. See next page for relay output jumper settings.

Connection Diagram (showing internal circuits only)



Note: Terminals on the left are even numbered, and terminals on the right are odd numbered.

(Actual wiring runs in this direction.)

Note: Contacts shown in N.O. configuration for simplicity.

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Specifications (Cat. No. 1771-OWN)

Outputs per module	32 (4 groups of 8)
Module Location	1771-A1B thru -A4B, 1771-AM1, -AM2 Chassis
Voltage Rating	24 - 138V ac rms; 24 - 125V dc
Current Rating ¹	
Max. per output	1A derate linearly .033A/°C above 45°C
Max. per module	12A derate linearly .4A/°C above 45°C
Max. per group	4A derate linearly .133A/°C above 45°C
Surge Current	1A (max) per output (at rated power) ²
Power Rating	dc: 30W per output (resistive) maximum ac: 30W per output (resistive) maximum
Minimum Contact Load	10mA
Operate/Release Time	5ms (±1ms) typical
Bounce Time	1ms (max)
Switching Frequency	10Hz (max)
Power Dissipation	All relays off: 15mW; All relays on: 12.5W (max.)
Thermal Dissipation	All relays off: 0.05 BTU/hr; All relays on: 42.75 BTU/hr (max.)
Backplane Current	2.5A maximum; 1.8A nominal
Isolation Voltage	1000V between open contacts 1500V between coil and contact
Interconnect Cable Length	1000 ft. (304.8 meters) max
Conductors Wire Size	14 gauge (2mm ²) stranded (max) 3/64 inch (1.2mm) insulation (max)
Category	1 ³
Environmental Conditions	
Operational Temp.	0 to 60°C (32 to 140°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Relative Humidity	5 to 95% (without condensation)
Keying	Between 6 and 8 Between 16 and 18
Field Wiring Arm	1771-WN
Wiring Arm Screw Torque	7-9 inch-pounds
Agency Certification (when product or packaging is marked)	<ul style="list-style-type: none"> • CSA certified • CSA Class I, Division 2, Groups A, B, C, D certified • UL listed • CE marked for all applicable directives
Installation Data	1771-5.37

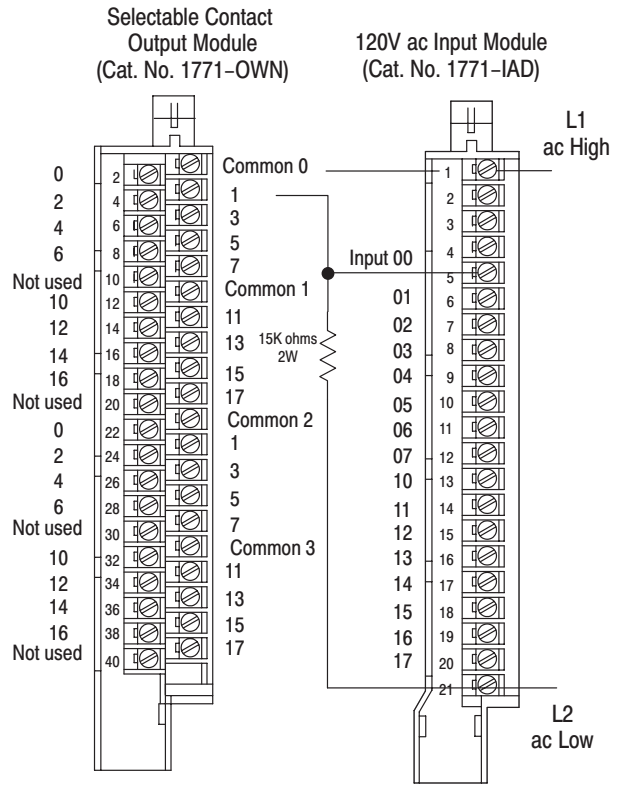
¹ Spikes peaks and surges must be within the power rating. Resistive loads only. ac or dc power = 30W max.

² Surge limiting circuitry is not provided in the module. For reliable operation, the user must ensure that surges do not exceed either the voltage or current rating of the module.

³ You use this conductor category information for planning conductor routing as described in the system level installation manual.

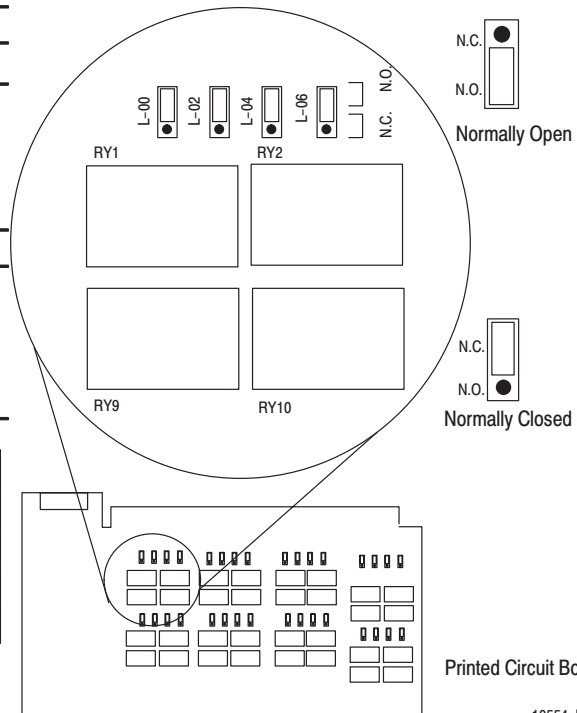
Output	Jumper No.
Outputs 00 - 07	L-00 - L-07
Outputs 10 - 17	L-10 - L-17
Outputs 20 - 27	H-00 - H-07
Outputs 30 - 37	H-10 - H-17

Sample Connection Diagram for the 1771-OWN Module Driving a 120V ac Input Module



10514-I

Relay Output Jumper Setting



Printed Circuit Board

10554-I