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Field Control

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In Stock! Relay 2A, 8 Point, 6 Form A/2 Form C, Isolated IC670M IC670MD IC670MDL

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GFK-1092E
June 1997

Relay Isolated NO/NC Output Module

Module Specifications

Module Characteristics	
Configuration	6 points – Form A (each point isolated) 2 points – Form C (each point isolated)
Rated Voltage	5/24/125 VDC, 120/240 VAC
Voltage Range	0-130 VDC, 0-265 VAC (47-63 Hz)
Maximum Load Current (resistive)	16 amps per module
Indicators	Individual logic side LEDs indicate the status of each output. The PWR LED indicates the presence of backplane power.
Isolation: User input to logic, user input to frame ground, group to group	250 VAC continuous, 1500 VAC for 1 minute. No isolation between individual points in a group.
Relay Type	Fixed coil, moving armature
Current Drawn from BIU Power Supply	313 mA maximum (see chart on the next page)
Output Characteristics	
Maximum Load Current (resistive)	2.0 Amps from 5 to 265VAC 2.0 Amps from 5 to 30VDC 0.2 Amps from 31 to 125VDC
Maximum Inrush	5 Amps for 20mS
Minimum Load Current	10 mA per point
Output Leakage	2 mA at 120 VAC maximum
Response Time–On	10 ms (max)
Response Time–Off	10 ms (max)
Switching Frequency	20 cycles/minute (inductive load)
Contact Type	Silver Alloy
Contact Resistance	0.2 (initial) at 1 A, 6 VDC
Contact Life	Mechanical: 20 x 10^6 operations Electrical: 10^5 operations at rated resistive load
Protection (each output)	Snubber (R=47.5 ohms, C=0.022 ufd). No fuse
Vibration (this module)	IEC68–2–6: 10 to 57 Hz 0.012in displacement (peak to peak) -57 to 500 Hz at 1.5 G-

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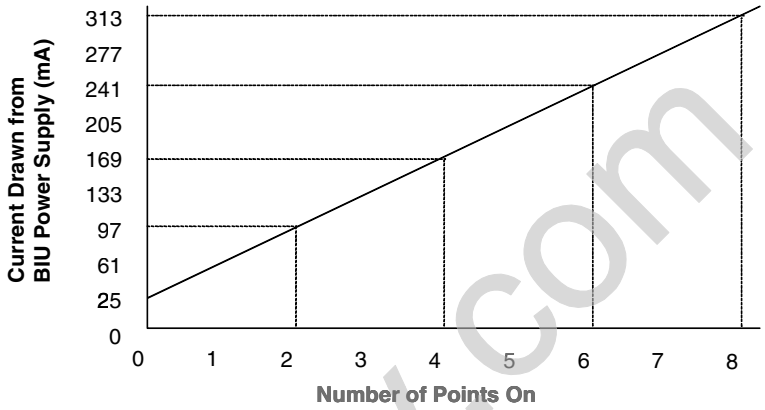
BIU Power Drain per Point

The Relay Output Module's BIU power requirement increases as the number of points that are simultaneously on increases. The chart below shows the relationship between the power required and the number of points that are on.



Typical Contact Life versus Load Conditions

Operating Voltage	Maximum Current for Load Type		Typical Contact Life (number of operations)
	Resistive	Inductive *	
24 - 120 VAC	2.0 Amp	1.0 Amp	300,000
24 - 120 VAC	-	2.0 Amp	150,000
24 - 120 VAC	1.0 Amp	0.5 Amp	500,000
24 - 120 VAC	0.1 Amp	0.05 Amp	1,000,000
240 VAC	2.0 Amp	1.0 Amp	150,000
240 VAC	-	2.0 Amp	50,000
240 VAC	1.0 Amp	0.5 Amp	200,000
240 VAC	0.1 Amp	0.05 Amp	500,000
24 VDC	2.0 Amp	1.0 Amp	300,000
24 VDC	-	2.0 Amp	100,000
24 VDC	1.0 Amp	0.5 Amp	500,000
24 VDC	0.1 Amp	0.05 Amp	1,000,000

* Power Factor = 0.4 minimum for AC inductive loads
Time Constant - 7mS for DC inductive loads

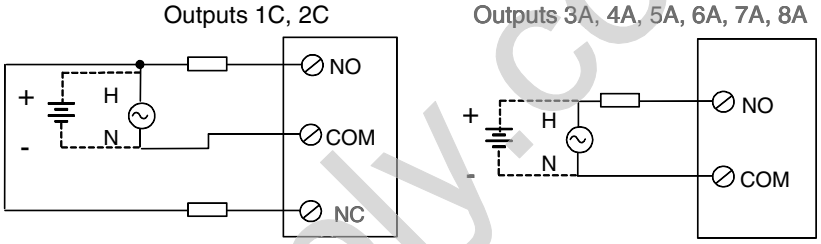
Keying Locations

Optional keying locations for the Isolated, NO/NC, Relay Output Module are shown below:

Keying Locations									
A	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**
		x	x	x	x	x	x		

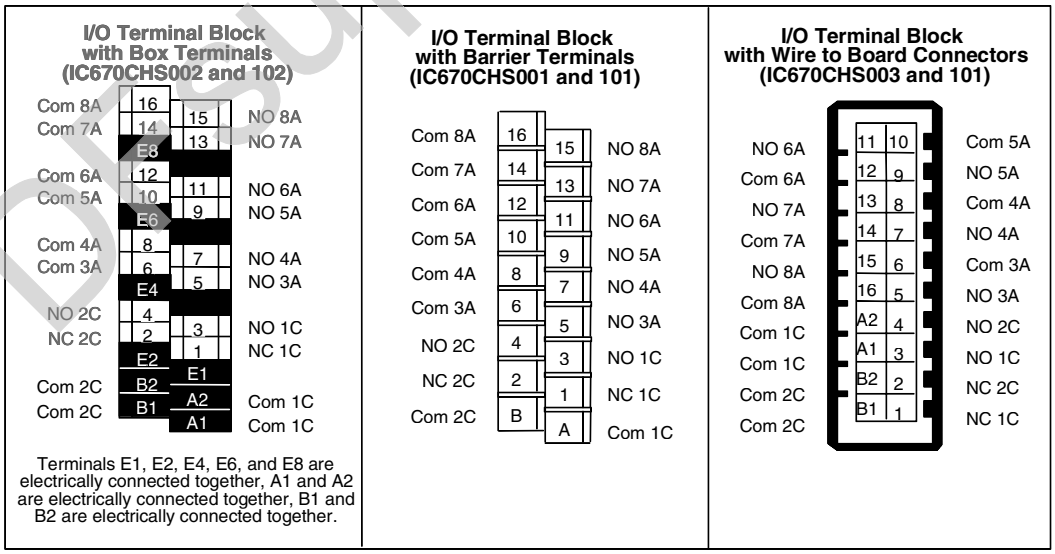
Field Wiring

The diagram below shows input and power connections for the module's two normally–open or normally–closed (Form C) contacts (labeled 1C and 2C on the module) and six normally–open (Form A) contacts (labeled 3A, 4A, 5A, 6A, 7A, and 8A).



I/O Terminal Block wiring assignments for this module are shown below.

Note: COM 1 through COM 8 may be connected together if a single supply is required. However, the maximum current through any one terminal may not exceed 10 Amps.



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