



# SERIES SIX

## PROGRAMMABLE CONTROLLERS

### REED RELAY OUTPUT MODULE

GEK-83540

OUTPUT  
0 - 250 V AC/DC  
0- 100VA

#### GENERAL DESCRIPTION

The Reed Relay Output module can be utilized in either an I/O Rack or a Model 60 CPU to provide a compact, electrically-isolated, relay contact interface between user power supplies and discrete loads. The Reed Relay Output module features and benefits are summarized in Table I,

The module includes six, Form C, mercury-wetted relays; each output circuit is separately fused and contains an LED that indicates when the circuit coil is energized. All six outputs are updated by the Series Six CPU during an I/O scan.

The de-energized state of each relay is jumper-selectable by the user; either normally-open (N.O.) or normally-closed (N.C.) contacts can be selected on a circuit-by-circuit basis.

The user also has the option to exclude the RC protection circuit provided for each output; this jumper-selectable option provides for low-level analog and instrumentation signals.

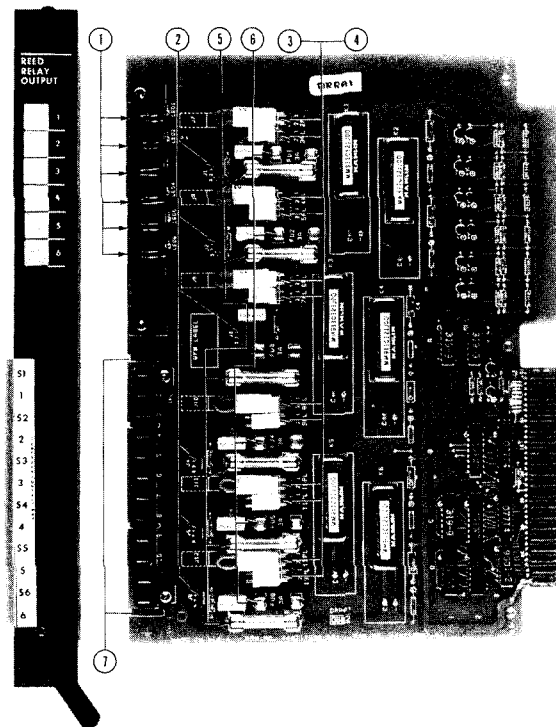
Refer to Figure 1 (next page) for Reed Relay Output module specifications.

TABLE I. FEATURES AND BENEFITS

FEATURES	BENEFITS
Normally Open/Normally Closed contact selection.	Useful in a variety of applications
6 relay outputs per module.	Low cost per output point
Individual fuses and status indicators	Protection and monitoring aids
250 V AC/DC (100 Volt-Amps max)	Can be used with wide range of AC or DC loads
High-voltage isolation capabilities	Provides Electrical Isolation (750 Volts max) between user field devices and the Series Six Controller

<ul style="list-style-type: none"> <li>● Dimensions: Circuit Board: 8.15 x 11.0 (inches) 200 x 260 (mm)</li> <li>Faceplate: 12.46 x 1.175 (inches) 317 x 30 (mm)</li> <li>● Power Requirements: +5V DC, 750 mA maximum Supplied by I/O Rack power supply.</li> <li>● Operating Temperature: 0° - 60°C (at the outside of the rack)</li> <li>● Storage Temperature: -20° to + 80°C</li> <li>● Humidity: 5% - 95% (non-condensing)</li> </ul>	<ul style="list-style-type: none"> <li>● Contact Rating Type: Form C, N.O. or N.C.; Jumper selectable Power: 100 VA (max) Voltage: 250 V AC/DC (Max) 4 V drop at 2 amp Current: 2 amp continuous 2 amp inrush Contact Resistance: .050 OHM (max) On Delay: 2 msec Off Delay: 3 msec</li> <li>● Longevity: 10<sup>8</sup> operations with proper contact protection</li> <li>● Contact Protection: 68 OHM and .012 uf RC network Jumper Selectable</li> </ul>
---	--

FIGURE 1. SPECIFICATIONS



- ① LED 1-6:  
Active (lit) LED's indicate energized coils for circuits 1 through 6, respectively.
- ② Jumpers J1 - J6:  
Select RC protection circuits when in positions, "1-2", for circuits 1 through 6, respectively. Positions "2-3" are the optional settings.
- ③ Plugs 2, 4, 6, 8, 10 and 12:  
Select the normally-open contacts for circuits 1 through 6, respectively. (Factory Settings)
- ④ Plugs 3, 5, 7, 9, 11, and 13:  
Select the normally-closed contacts for circuits 1 through 6, respectively. (Optional Settings)
- ⑤ Type AGC 3 Fuses, 1-6:  
3 amp fuses for circuits 1 through 6, respectively.
- ⑥ International 5 x 20 mm fuses, 1-6:  
3 amp fuses for circuits 1 through 6, respectively
- ⑦ User Terminal Block

FIGURE 2. USER ITEMS

### INSTALLATION

Before installing the Reed Relay module in an I/O Rack (or Model 60 CPU rack), determine if the factory configuration of the module is suitable for the application. The factory configuration includes normally-open contacts (refer to Figure 2, User Item 3) and RC protection circuits (Figure 2, User Item 2) for each of the six output circuits.

Also, establish the proper correspondence between the output terminals on this module and a group of six consecutive output numbers in the user program by setting the dual-in-line-package (DIP) switch on the rack backplane adjacent to the card slot. (Refer to table in the Installation section of Installation And Maintenance Manual, GEK-25361.

#### NOTE

**Install the Reed Relay module in a vertically-oriented position. (That is, in a rack positioned right-side up.) Otherwise, the module will not function properly.**

Use the extraction/inserting tool furnished with the Series Six CPU to install the module in the rack. With the board in place in the rack, slip the faceplate over the circuit board so that the terminals near the bottom of each are mated; then, secure the faceplate to the rack using the thumbscrews at the top and bottom.

Refer to Figure 3 for typical user output connections. (Figure 3 includes a schematic representation of Reed Relay output circuit, No. 1. The RC protection circuit jumper (J1), the N.O. plug (2 PL), the N.C. plug (3PL), the energized-coil light (LED1), and fuse (FU1) are shown.) Connect one side of the load to be controlled by this module to the appropriate output terminal, (1 through 6). The other side of the load is connected through the user-supplied power source to terminals, S1 through S6, respectively. Each terminal can accommodate one No. 12 AWG or two No. 14 AWG wires. The terminal cover should be installed by guiding both its edges onto the top of the terminal block and sliding it downward over the terminals.

A markable area is provided on the plastic lens beside each indicator for noting the function or destination of each output.

**WARNING**

**Voltages from user field devices could be present on the faceplate terminals, even if the power supply in the I/O rack is off. Care should be taken when handling the faceplate of the module or any wires connected to it.**

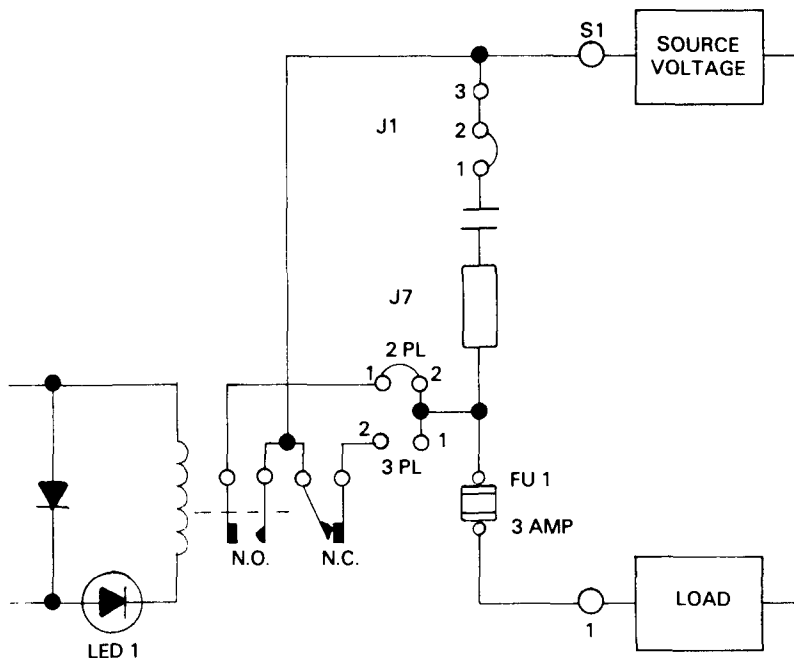


FIGURE 3. TYPICAL USER CONNECTIONS

**ORDERING INFORMATION**

**REED RELAY MODULE**

Circuit Board & Faceplate

IC600BF914A

Circuit Board Only

IC600YB914A

Faceplate Only

IC600FP914A

For further information, contact your local GE Fanuc sales office.

**GE Fanuc Automation North America, Inc., Charlottesville, Virginia**