

Model FIX-50P-SWO 50-Point Switch-Over Module

Operating Instructions

Introduction

The Model FIX-50P-SWO is a 50-pole double-throw relay, powered by 12 Volts DC and controlled by a single LS-TTL compatible active-low signal. It is designed to be placed in series with the test pins attached to the unit-under-test. Its function is to either isolate those test pins or, as a change-over switch, to provide alternate stimulus sources.

Specifications

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| Number of Contacts: | 50 Form-C |
| Contact Rating: | 1A, 250 VAC, 220 VDC, 30 VA, Silver with gold overlay |
| Input/Output: | 3 connectors, each 25x2 pins on .1" spacing |
| Power Required: | 12V DC at .30 Amps |
| Control: | LS-TTL compatible digital input, pulled high. Logic Low activates normally open contacts |
| Dimensions: | 4.8" x 5.5" x 1.5" Circuit board with four #6 standoffs |

Description

The Model FIX-50P-SWO is a 50-pole double-throw relay. It is typically installed in series with the solid-state multiplexer test points from a Model TR-4-1D or TR-8-1 when the test points need to be isolated during power-up. Isolation is required when voltages over 12 volts may be present.

The FIX-50P-SWO may also be used as a change-over module between the analog test point electronics of the Model TR-4-1D/TR-8-1/MPX-3-200 and, for example, the digital test point electronics of the Model G-80. Jumpers are available on the Model FIX-50P-SWO so that it may be directly controlled by a single digital bit from either of these modules.

Connectors and Jumpers:

- P1 50-Pin connector for the NORMALLY CLOSED pole of the change-over switch. This is the unpowered active pole.
- P2 50-Pin connector for the NORMALLY OPEN pole of the change-over switch. This pole is connected to the COMMON pole when power is applied to the module and the Digital Input Signal is at low logic.
- P3 50-Pin connector for the COMMON pole of the change-over switch. This is typically connected to the UUT test points.
- P4 4-Pin power and digital connector (AMP Mate-N-Lok style).

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| Pin 1 | +12 VDC |
| Pin 2 | Digital Control (active-low) |
| Pin 3 | Ground |
| Pin 4 | Unused |
- JP1 Optionally connects digital control to P1 or P2 (simplifies digital control by the Model G-80 or Model TR-4-1D).

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| Jumper Not Installed: | Control via P4 |
| Jumper JP1-1 to JP1-2: | Control via Pin 1 of P2 |
| Jumper JP1-3 to JP1-2: | Control via Pin 1 of P1 |
- JP2 Optionally connects power ground to P1 or P2.

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|------------------------|----------------------------------|
| Jumper Not Installed: | Ground not connected |
| Jumper JP2-1 to JP2-2: | Ground connected to Pin 49 of P2 |
| Jumper JP2-2 to JP2-3: | Ground connected to Pin 49 of P1 |

