7999-2

Three-Pole Audio Multiplexer Module

for Remote Mounting



The 7999-2 Three-Pole Audio Multiplexer Module contains a three-pole 1×3 multiplexer, and a 3-pole 1×4 multiplexer for switching audio signals. For minimizing the effects of noise, the input and output connectors are shielded, high quality audio connectors, and the module is enclosed in an aluminum case. In addition, each input and output line has an RF filter for filtering out high frequency noise.

The 7999-2 module is designed for mounting in a remote location such as at a test fixture, and operates independently of a switch control mainframe. Operating each relay requires an external 24VDC supply and control of the LO terminal of the relay.

Ordering Information

7999-2

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Accessories Supplied

Instruction Manual

RELAY SWITCH CONFIGURATION: 1 bank of 3:1 MUX 3-pole switching. 1 bank of 4:1 MUX 3-pole switching.

CONTACT CONFIGURATION: 3-pole Form A.

CONNECTOR TYPE:

MUX Common Connector (1): 6-pin LEMO. MUX Input/Output Connectors (7): 3-pin LEMO. Control Connectors (1): 15-pin male D-sub.

 $\begin{tabular}{ll} \textbf{MAXIMUM SIGNAL: } 30V\ DC,\ 42V\ peak\ between\ any\ two\ inputs \\ or\ chassis,\ 1A\ switched,\ CAT\ I. \\ \end{tabular}$

CONTACT LIFE: Cold Switching: 10×10⁸ closures. At Maximum Signal Levels: 2×10⁵ closures.

CHANNEL RESISTANCE (per conductor): $<1\Omega$.

CONTACT POTENTIAL: $<10\mu\mathrm{V}$ per contact.

ACTUATION TIME: 3ms.

 $\begin{tabular}{ll} \textbf{ISOLATION: Channel to Channel:} >& 10^9 \Omega, <& 80 pF. \\ \textbf{Common Mode:} >& 10^9 \Omega, <& 150 pF. \\ \end{tabular}$

CROSSTALK (1MHz, 50Ω load): <-40dB.

INSERTION LOSS (50 Ω source, 50 Ω load): <0.1dB \leq 20kHz, >25dB @ 2GHz.

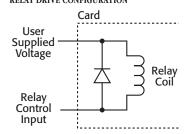
RELAY DRIVE CURRENT (per relay): 8.5mA @ 24V (user supplied).

USER SUPPLIED VOLTAGE: 24V ±4V DC, 175mA max.

 $\label{eq:relay} \textbf{RELAY CONTROL INPUT: Relay Closed:} < 2.0 \text{V}.$

Relay Open: User supplied voltage.

RELAY DRIVE CONFIGURATION

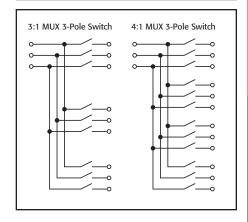


GENERAL

ENVIRONMENT: Operating: 0° to 50° C, up to 35° C <80% R.H. **Storage:** -25° to 65° C.

EMC: Conforms with European Union Directive 89/336/ EEC, EN 55011, EN 50082-1, EN 61000-3-2 and 61000-3-3, FCC part 15 class B.

DIMENSIONS: 155mm long × 108mm wide × 38mm deep (6½" × 4½" × 1½").



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