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Find the *Keithley 7056* at our website: ***Click HERE***

7056



- 20- or 10-channel scanner configuration
- 1-pole in 20-channel mode, 2-pole in 10-channel mode
- Screw terminal connections on quick disconnect card

Ordering Information

7056 General Purpose Scanner

7058



- Sub-pA offset current
- 10-channel scanner
- Maintains current path for unselected channel
- Triax connectors

Ordering Information

7058 Low Current Scanner Card

Accessories Supplied

7024-3 Low Noise Triax Cable, 0.9m (3 ft.)

General-Purpose Scanner Card

Quick Disconnect

The Model 7056 is a 10-channel scanner card with electrical connection made through a quick disconnect screw terminal card (Model 7055). It is a cost-effective and versatile solution to relay switching applications. Each channel of the card has two Form A (SPNO) contacts. The switch can be wired for either 2-pole or 1-pole switching through the selection of the appropriate output. In 1-pole operation, channels HI and LO operate as independent, isolated inputs, thereby effectively doubling the number of input channels. In 20 channel mode, use as a one of 20 channel selector switch.

CHANNELS PER CARD: 10 in 2-pole mode, 20 in 1-pole mode.

CONTACT CONFIGURATION: 2-pole Form A; includes quick disconnect card. HI or LO switched to a separate output for 1-pole mode. Common guard connection.

CONNECTOR TYPE: Screw terminal, #18AWG maximum wire size. Terminals mounted on quick disconnect portion of 7056.

RELAY DRIVE CURRENT: 24mA per relay typical.

MAXIMUM SIGNAL LEVEL: 150V, 250mA, 10VA (resistive load only).

CONTACT LIFE: $>10^8$ closures cold switching; $>10^7$ closures at maximum signal levels.

CONTACT RESISTANCE: <2Ω to rated life.

CONTACT POTENTIAL: <100μV per contact pair input to output with copper leads (<50μV typical).

ACTUATION TIME: <2ms, exclusive of mainframe.

CHANNEL ISOLATION: $>10^9$Ω, <20pF typical.

INPUT ISOLATION, DIFFERENTIAL: $>10^9$Ω, <50pF typical.

INPUT ISOLATION, COMMON MODE: $>10^9$Ω, <150pF typical.

COMMON MODE VOLTAGE: 150V peak.

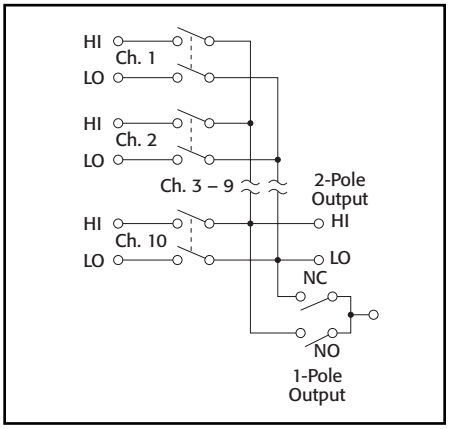
CHANNEL CROSSTALK: <50dB @ 1MHz into 50Ω load.

EMC: Conforms to European Union Directive 89/336/EEC.

SAFETY: Conforms to European Union Directive 73/23/EEC (meets EN61010-1/IEC 1010).

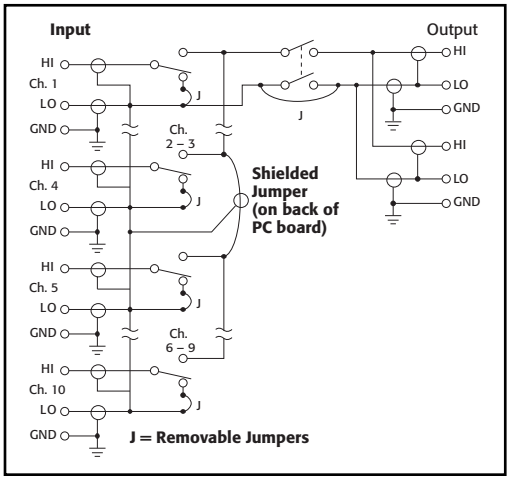
OPERATING ENVIRONMENT: 0° to 50°C, up to 35°C at 70% RH.

STORAGE ENVIRONMENT: –25°C to 65°C.



Low Current Scanner Card

For optimum low-level current switching up to 10 channels, the Model 7058 is designed to introduce minimal offset current error (under 1pA), while guarding ensures that high isolation (10^{15}Ω) is maintained between input HI to input HI. Removable jumpers allow channels to be configured as voltage switches. Triaxial input connectors provide better shielding and permit direct connection to Keithley electrometers.



CHANNELS PER CARD: 10.

CONTACT CONFIGURATION: Single pole, break-before-make for signal HI input. Signal LO is common for all 10 channels. When a channel is off, signal HI is connected to signal LO through an internal removable jumper.

CONNECTOR TYPE: Two-lug triaxial.

RELAY DRIVE CURRENT: 24mA per relay typical.

MAXIMUM SIGNAL LEVEL: 200V, 100mA (resistive load only).

CONTACT LIFE: $>10^7$ closures cold switching; $>10^6$ closures at maximum signal levels.

CONTACT RESISTANCE: <1Ω to rated life.

CONTACT POTENTIAL: <250μV.

ACTUATION TIME: <15ms, exclusive of mainframe.

CHANNEL ISOLATION: $>10^{15}$Ω, <0.1pF with internal jumper removed.

INPUT ISOLATION: $>10^{10}$Ω, <50pF (Input HI to Input LO).

OFFSET CURRENT: $<10^{-12}$A ($<10^{-13}$A typical).

COMMON MODE VOLTAGE: <100V peak.

ACCESSORIES AVAILABLE

7024-3	Low Noise Triax Cable, 3 ft.
7024-10	Low Noise Triax Cable, 10 ft.
7025-10	Low Noise Triax Cable with one end unterminated, 10 ft.

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