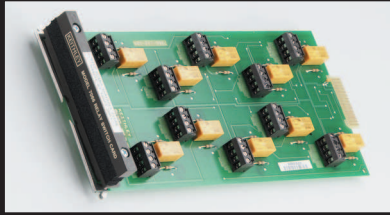


7066

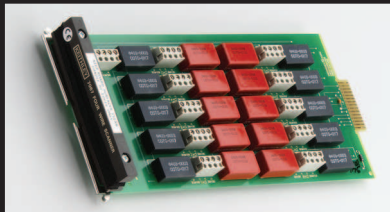


- 2-pole Form A relays
- $<30\mu\text{V}$ contact potential
- Quick disconnect screw terminal connections

Ordering Information

7066 10-Channel Independent Switch with Screw Terminal Connections

7067



- $<1\mu\text{V}$ contact potential
- 4-pole Form A relays
- Quick disconnect screw terminal connections

Ordering Information

7067 4-Wire Scanner Card with Screw Terminal Connections

10-Channel Isolated Switch Card

10 Independent Switches

The Model 7066 is a non-multiplexed switching card with ten independent and isolated channels. Each channel switches 2-pole Form A relays and can be user changed for either Form B or Form C configuration using jumpers. The switch specifications are well-suited for applications such as power line switching, controlling external circuits and devices, and switching signals where multiplexing is not desired. Each channel is terminated with a screw terminal block that "quick disconnects" from the card.

CHANNELS PER CARD: 10.

CONTACT CONFIGURATION: 2-pole Form A.

CONNECTOR TYPE: Quick disconnect block for each channel.
Screw terminals accept #14–#26AWG wire.

RELAY DRIVE CURRENT: 80mA per relay typical.

MAXIMUM SIGNAL LEVEL: 250V DC or rms, 350V peak switched, 2A DC or rms, 60W DC or rms, 60W DC, 125V AC (resistive load).

CONTACT LIFE: $>10^8$ closures cold switching; $>10^5$ closures at maximum ratings.

CONTACT RESISTANCE: $<0.1\Omega$ initial, $<2\Omega$ rated life.

CONTACT POTENTIAL: $<30\mu\text{V}$ per contact pair input to output with copper leads ($<10\mu\text{V}$ typical).

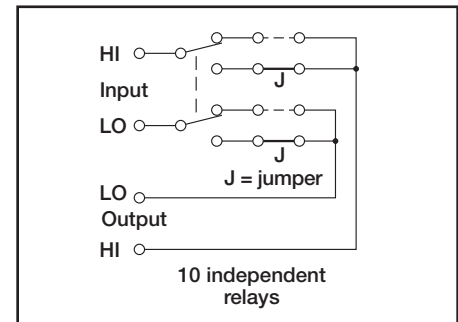
ACTUATION TIME: $<10\text{ms}$, exclusive of mainframe.

CHANNEL ISOLATION: $>10^9\Omega$.

INPUT ISOLATION: $>10^9\Omega$.

COMMON MODE VOLTAGE: 350V peak.

OPERATING ENVIRONMENT: -25° to 65°C .



4-Wire Scanner Card

10-Channel

Four-wire or Kelvin connections are generally made to minimize errors created by I-R drops in the cabling and interconnects of a test system. Each channel of the Model 7067 has two general-purpose source contacts that switch currents up to 350mA, as well as two high quality contacts ($<1\mu\text{V}$ contact potential) for dry switching of voltage to the sensing circuit. The Model 7067 is well-suited to precision resistance measurements as required in temperature coefficient testing. Other applications include remote sensing of voltage source outputs and bridge measurements.

CHANNELS PER CARD: 10.

CONTACT CONFIGURATION: 4-pole Form A, common shield connection.

RELAY DRIVE CURRENT: 40mA per channel typical.

SENSE LINES:

Maximum Signal Level: 150V, 100mA, 2VA (resistive loads only).

Contact Resistance: $<0.5\Omega$ initial, 2Ω to rated life.

Contact Potential: $<1\mu\text{V}$ per contact pair.

SOURCE LINES:

Maximum Signal Level: 150V, 350mA, 10VA (resistive loads only).

Contact Resistance: $<0.2\Omega$ initial, 2Ω to rated life.

Contact Potential: $<50\mu\text{V}$ per contact pair.

CONNECTOR TYPE: Quick disconnect screw terminal, #18AWG maximum wire size.

CONTACT LIFE: $>10^8$ closures cold switching; $>10^6$ closures at maximum signal levels.

WARM-UP: 1 hour for thermal stability.

ACTUATION TIME: $<2\text{ms}$, exclusive of mainframe.

CHANNEL ISOLATION: $>10^9\Omega$, $<10\text{pF}$.

INPUT ISOLATION, DIFFERENTIAL: $>10^9\Omega$, $<50\text{pF}$.

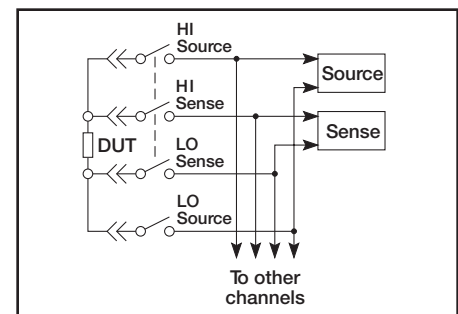
INPUT ISOLATION, COMMON MODE: $>10^9\Omega$, $<100\text{pF}$.

COMMON MODE VOLTAGE: $<150\text{V}$ peak.

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

STORAGE ENVIRONMENT: -25°C to 65°C .

APPLICATIONS: 4-wire resistance (resistors, relays, connectors, switches, RTDs). External sensing on voltage sources. DUT in/out switching (potentiometers, isolation amplifiers, strain gages).



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