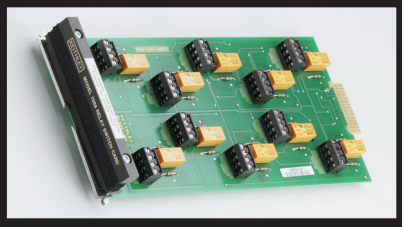
7066

10-Channel Isolated Switch Card

10 Independent Switches



- 2-pole Form A relays
- <30µV contact potential
- Quick disconnect screw terminal connections

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: <0.1Ω initial, <2Ω rated life.

CONTACT POTENTIAL: <30µV per contact pair input to output with copper leads (<10µV typical).

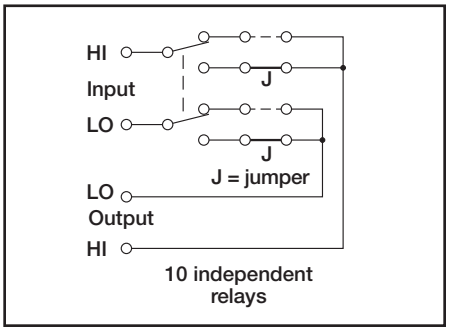
ACTUATION TIME: <10ms, exclusive of mainframe.

CHANNEL ISOLATION: >10^9Ω.

INPUT ISOLATION: >10^9Ω.

COMMON MODE VOLTAGE: 350V peak.

OPERATING ENVIRONMENT: –25° to 65°C.



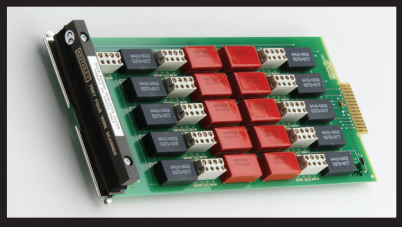
Ordering Information

7066 10-Channel Independent Switch with Screw Terminal Connections

7067

4-Wire Scanner Card

10-Channel



- <1µV contact potential
- 4-pole Form A relays
- Quick disconnect screw terminal connections

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 (<1µV 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: <0.5Ω initial, 2Ω to rated life.

Contact Potential: <1µV per contact pair.

SOURCE LINES:

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

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

Contact Potential: <50µV 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: <2ms, exclusive of mainframe.

CHANNEL ISOLATION: >10^9Ω, <10pF.

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

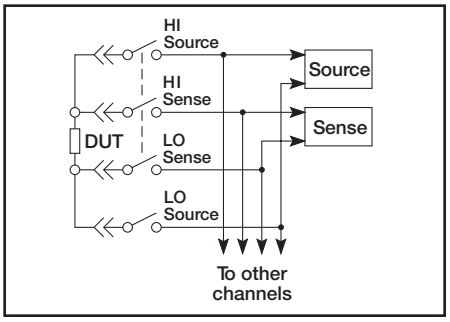
INPUT ISOLATION, COMMON MODE: >10^9Ω, <100pF.

COMMON MODE VOLTAGE: <150V 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).



Ordering Information

7067 4-Wire Scanner Card with Screw Terminal Connections

Use with 7001 and 7002 Switch Mainframes