

KEYSIGHT TECHNOLOGIES (AGILENT HP)

34903A

The Keysight 34903A (formerly Agilent 34903A) is a 20-channel actuator and general-purpose switch module designed for the 34970A and 34972A Data Acquisition/Switch Units. Featuring independent single-pole, double-throw (SPDT / Form C) latching relays, this module is engineered for cycling power to devices under test, controlling indicator lights, and actuating external solenoids or power relays. It supports high-voltage, high-current switching up to 300 V and 1 A with low thermal offset, delivering reliable performance in complex automated test systems.

SPECIFICATIONS

Physical

Operating Temperature	0 °C to 55 °C °C
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Channel & Contact Configurations

Number of Channels	20
Switch Configuration Type	Actuator / General Purpose Switch
Contact Form	SPDT (Form C)
Relay Type	Latching
Maximum Switching Voltage (DC)	300 V
Maximum Switching Voltage (AC RMS)	300 V
Maximum Switching Current (DC)	1 A
Maximum Switching Current (AC RMS)	1 A
Maximum Switching Power (W)	50 W
Thermal Offset	< 3 µV (typical)

AC & RF Transmission Performance

Bandwidth (-3 dB)	10 MHz (typical into 50 Ω)
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Relay Switching Characteristics

Maximum Switching Rate	120 channels/sec
Electrical Relay Lifetime (At Rated Load)	100,000 cycles

Physical Connectivity & Wiring

Terminal Block Type	Built-in screw terminals
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Mainframe Integration

Compatible Mainframes	Keysight 34970A, Keysight 34972A
Number of Slots Required	1

Environmental & Safety

Storage Temperature Range	-40 °C to 70 °C
Operating Humidity Range	Up to 80% R.H. at 40 °C (non-condensing)
Maximum Operating Altitude	2000 m
Recommended Calibration Interval	1 year

Voltage Ratings

Maximum Voltage (Channel-to-Chassis)	300 V AC/DC
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TECHNOLOGY

Electromechanical Relay

APPLICATIONS

Power switching, automated testing, control of external relays and actuators

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