

1769sc-IR6I

6-Channel Isolated RTD / Resistance Input Module

for Allen-Bradley CompactLogix™ and MicroLogix™ 1500 PLCs



- Six channels of RTD or Resistance input.
- 2/3/4 Wire RTD Input
- Features 125 Vac channel-to-backplane isolation; 125 Vac channel-to-chassis ground isolation; 125 Vac channel-to-channel isolation.
- Easily configured using RSLogix 500/5000 programming software.
- Channel selectable filtering for maximum speed with minimum noise.
- Low power consumption.

Improve System Performance

The 1769sc-IR6I can improve system performance by offering high channel-to-channel isolation which reduces the possibility of channel cross talk in electrically noisy environments. The 1769sc-IR6I supports most RTD input types and can also measure resistance inputs from peripheral sensors. Installation is simplified and costs are reduced by eliminating the need for external signal conditioners.

State-of-the-Art Features

The broad variety of input types and configuration options provide unsurpassed flexibility and simplify integration. Features such as input type, open circuit detection, high and low range alarms are individually programmable for each channel. Accuracy is comparable to non-isolated RTD input modules. The module incorporates proprietary Allen-Bradley ASIC technology insuring operation and performance mirror existing Allen-Bradley products. Configuration is accomplished using existing programming software.

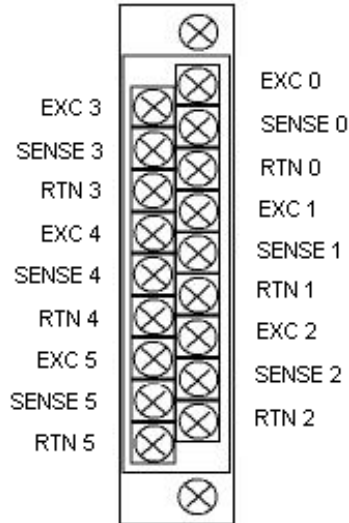
The Spectrum Controls 1769sc-IR6I compatible with Allen-Bradley MicroLogix 1500 and CompactLogix controllers. It offers the functionality of standard RTD input modules without compromising performance or price.

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6-Channel Isolated RTD Input Module

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1769sc-IR6I Terminal Block



Inputs per Module	6 (six) RTD, Resistance
Module Location	CompactLogix 1769 , MicroLogix 1500
Input Types RTD Resistance	PT385/3916, Ni618/672, NiFe518, Cu 426 0-150, 0-500, 0-1000, 0-3000 ohm
Advanced Features	6 filter frequencies (individually selectable by channel); full auto-calibration; on-board error checking; open circuit detection
Update Times With four channels enabled	0.244 sec @ 4.17 Hz 0.100 sec @ 10 Hz 0.060 sec @ 16.7 Hz 0.051 sec @ 19.6 Hz 0.020 sec @ 62 Hz 0.006 sec @ 470 Hz
Communication Formats	16-bit two's complement Engineering units, Engineering units x10 Scaled for PID, Proportional Count, Percent Range
Electrical Isolation (continuous)	125 Vac channel-to-channel 125 Vac field-wiring-to-backplane 125 Vac field-wiring-to-chassis-ground
Input Impedance	>1 Mohm
Input Overvoltage Protection	+/-35 Vdc continuous
Cable Impedance	25ohm maximum
Common Mode Rejection	110 dB @ 50/60 Hz
Normal Mode Rejection	65 dB @ 50/60 Hz
Backplane Current Required	35 mA @ 24 V max 190 mA @ 5 V max
Thermal Dissipation	3.00 Watts, maximum
Environmental Conditions Operational Temperature Storage Temperature Relative Humidity	0° to 60°C (32° to 140°F) -45° to 85°C (-49° to 185°F) 5 to 95% (non-condensing)
Certifications	UL/cUL (Class I, Div 2, Groups ABCD) and CE



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