

Compact 5000™

5069-IV16F-SC/5069-IV16FK-SC

16-Point 24 Volt Discrete High-Speed Sourcing Input Module



The 5069-IV16F-SC/5069-IV16FK Input Modules provide sixteen channels of discrete inputs that expand the local I/O capability of Rockwell's Compact 5000™ I/O Systems. The 5069-IV16K-SC is the conformally coated version. Spectrum Controls, Inc. uses technology licensed directly from Rockwell Automation to ensure the same compatibility that is provided by other 5069 products:

- Sixteen configurable 24 VDC input points.
- High-performance sourcing inputs with user-programmable sensitivity, minimum input pulse width is selectable from less than 10 μ Sec to as much as 50 mSec.
- Features 250 VAC RMS, basic insulation type channel-to-backplane isolation.
- Includes Add-on Profile to allow full configuration using Studio 5000® software.
- Provides low power consumption.



5069-IV16F-SC (K) Specifications



Number of Inputs	16 (2-wire or 3-wire (powered) sensor/switch sourcing input channels)
Input Type:	
Source	24 VDC
Voltage; off-state input, maximum:	5 VDC
Current; off-state input, minimum:	1.5 mA
Current; on-state, input minimum:	5 mA per channel at 10 V
Current; on state input, nominal	6 mA at 24 VDC
Current; on-state input, maximum:	7.4 mA at 32 VDC
Voltage; on-state input, maximum	32 VDC
Voltage; on-state input, nominal	24 VDC
Voltage; on-state input, minimum	10 VDC
Voltage; sensor source, maximum	30 V
Voltage; sensor source, minimum	11 V
Overvoltage Protection	36 V (fuse-protected)
Input Inrush Current, maximum	250 mA, decays to less than 37% within 22 mSec
Input Impedance	2.5 K minimum 30 K maximum
Input Transition Delay, Screw to Backplane:	
Time, Off-to-On:	User-selectable from less than 10 μ Sec up to 50 mSec
Time On-to-Off:	User-selectable from less than 10 μ Sec up to 50 mSec
Input Pulse Width:	
On-Off-On:	6 μ Sec
Off-On-Off:	6 μ Sec
Thermal Dissipation	13.65 BTU/hr
Backplane ratings:	
MP (Backplane):	18-32 VDC, 55 mA
SA (Backplane):	10-32 VDC 100 mW
Environmental Conditions:	
Operational Temperature:	0 °C - +60 °C (32 °F - +140 °F)
Storage Temperature:	-40 °C - +85 °C (-40 °F - +185 °F)
Relative Humidity:	5% - 95% (non-condensing)
Conformal Coating	ANSI/ISA 71.04.2013 G3 Environment Standard
Certifications	UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div 2, Groups ABCD), CE, ATEX, CCC, ROROC, UKCA, IECEx

