

Compact 5000™

5069-OV16F-SC/ 5069-OV16FK-SC

16-Point 24 Volt Discrete High-Speed Sinking Output Module



The 5069-OV16F-SC/5069-OV16FK Output Modules provide sixteen channels of digital signals provided in sink mode. The modules expand the local I/O capability of Rockwell's Compact 5000™ I/O Systems. The 5069-OV16K-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:

- Provides 16 channel (1 group of 16) sinking.
- Provides configuration of individual output points to specific states when the module is in Program mode or Communications Fault mode.
- Capable of high-speed control, with output transition times less than, or equal to, 10 μ Sec with output pulses as short as 20 μ Sec.
- 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-OV16F-SC (K)

Specifications



Number of Outputs	16 (1 group of 16), sinking)
Voltage Category	24 Sink
Voltage; on-state, maximum	32 VDC
Voltage; on-state input, nominal	24 VDC
Voltage; on-state drop, maximum	Less than 0.25 VDC
Voltage; off-state voltage drop, maximum:	5 VDC
Current; output rating:	0.5 A resistive per point at 10...32 VDC 8 A resistive per module at 10...32 VDC, max
Current; on-state, per channel minimum:	1 mA
Current; surge per point:	0.7 A max for 10 ms per point, repeatable every 2 seconds at 60 °C
Current; off-state leakage per point, maximum:	Less than 0.5 mA per point
Load Capacitance, maximum:	1 µF (including 1 nF already internal to module)
Overvoltage Protection	36 V (fuse-protected)
Reverse voltage protection	Yes
Surge/Inrush Current, maximum	Not to exceed 500 mA; module limits inrush current to 2.5 A, repeatable once a second
Output short circuit/overload protection	Yes (Outputs not fused; electronically protected from over-currents; 1.15 A typical threshold)
Output delay time, backplane to screw: Time, Off-to-On: Time On-to-Off: Pulse Width Minimum:	Less than or equal to 10 µSec, ±3 µSec, at 25 °C at 0.5 A Less than or equal to 10 µSec, ±3 µSec, at 25 °C at 0.5 A 20 µSec at 0.5 A at 25 °C
Thermal Dissipation	13.65 BTU/hr.
Backplane ratings: MOD Power SA Power Passthrough Maximum	18-32 VDC, 75 mA 10-32 VDC 9.95 A
Environmental Conditions Operational Temperature Storage Temperature Relative Humidity	0 °C -+ 60 °C (32 °F - +140 °F) -40 °C - +85 °C (-40 °F - +185 °F) 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, CMIM, UKCA, IECEx

