

# F-8028CV

## 8-channel Isolated Analog Output Redundant Module



Model: F-8028CV

## Features

- 8 current/voltage output channels
- Overrange output
- Short circuit protection
- Open wire detection
- RoHS compliance
- 3000 VDC isolation from output to backplane
- 3000 VDC isolation from output to frame ground
- Redundancy
- Fast redundant switching time (<1 ms)

## Introduction

The F-8028CV is a 16-bit, 8-channel analog output module that features programmable output range on all channels. It provides digital to analog converter controlled by the system module to convert the digital data into output signals. Users can specify the start up and safety value through configuration software. Moreover, this module has  $\pm 0.05\%$  accuracy for highly accurate application. Besides, the F-8028CV provides 3000VDC optical isolation between channels and backplane bus. If any high voltage or current damages these channels, this module won't affect other component in iDCS-8000 system.

## Applications

- Building Automation
- Factory Automation
- Machine Automation
- Remote Maintenance
- Remote Diagnosis
- Testing Equipment

## Specifications

Feature	
Redundant	Yes (Switching time < 1 ms)
Termination board break off detection	Yes
Short Circuit Protection	Yes
Open Wire Detection	Yes (4 ~ 20 mA)
Power-On Value	Yes
Safety Value	Yes
LED indicator	1 RUN, 1 ACT, 1 DUX
Analog Output	
Number of channels	8
Type	0 ~ 20 mA, 4 ~ 20 mA (current sourcing) 0 ~ 5 V, $\pm 5$ V, 0 ~ 5 V, $\pm 10$ V

Maximum Allowable Output Range	0 ~ 20 mA	+20% (0 ~ 24 mA)
	4 ~ 20 mA	±25% (0 ~ 24 mA)
	0 ~ 5 V	+20% (0 ~ 6 V)
	±5 V	±20% (±6V)
	0 ~ 5 V	+20% (0 ~ 12 V)
	±10 V	±20% (±12V)
Resolution	16 bit	
Output Response Time	<200 μS	
Accuracy	±0.05% FSR	
Zero Drift	±0.2 μV/°C	
Span Drift	±25 ppm/°C	
Output Capacity	Current	750 Ω
	Voltage	500 Ω
Data Range	-2500 ~ 12500	
Isolation	3000 Vdc	
<b>Certification</b>		
EMC	EN61000-6-2, EN61000-6-4, IEC/EN 61000-4-2, IEC/EN 61000-4-4	
<b>General</b>		
Termination board	DN-AIO-M	
Maximum power consumption	1 W	
Operating temperature	-25°C ~ +75°C	
Humidity	5 ~ 95 % RH, Non-condensing	
Weight	300 g	
Dimensions (W x L x H)	30 mm x 85 mm x 115 mm	

## Ordering Information

F-8028CV CR	8-channel Isolated Analog Output Redundant Module (Gray Cover)(RoHS)
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## Accessories

<a href="#">DN-37-A</a>	I/O Connector Block with DIN-Rail Mounting and 37-pin D-sub Connector (pitch: 5.08 mm)
<a href="#">DN-37-381-A</a>	I/O Connector Block with DIN-Rail Mounting and 37-pin D-sub Connector (pitch: 3.81 mm)
<a href="#">DN-AIO-M</a>	Termination board for analog I/O modules
CA-01	D-Sub 37pin Female-Male 1m Cable
CA-02	D-Sub 37pin Female-Male 2m Cable
CA-03	D-Sub 37pin Female-Male 3m Cable
CA-05	D-Sub 37pin Female-Male 5m Cable