



I-87068W | I-87068W-2A

4-ch Form A Power Relay and 4-ch Form C Power Relay Module

Features

- Form A & Form C Relay Output
- Power-on Value
- Safe Value
- Dual Watchdog Timer
- 2000/3750 VDC Intra-module Isolation
- 4 kV ESD Protection

Introduction

The I-87068W provides 4 Form A power relay output channels and 4 Form C power relay output channels. The I-87068W-2A provides 4 Form A signal relay output channels and 4 Form C signal relay output channels. Both include 8 LED indicators for monitoring the relay output status and provide options for confi guring power-on and safe digital output values. 4 kV ESD protection and 3750 VDC intra-module isolation are also provided. The I-87068W is the ideal solution for high power applications and the I-87068W-2A is the ideal solution for small signal switching.

System Specifications

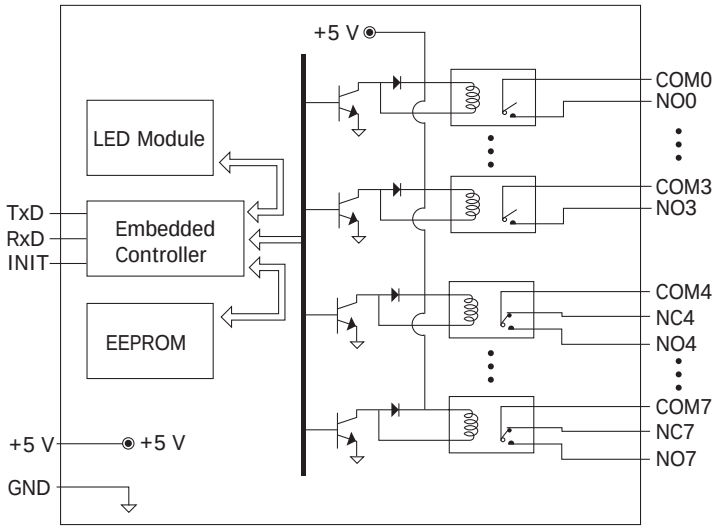
Model	I-87068W	I-87068W-2A
COM Port		
Ports	RS-485	
Data Format	N, 8, 1	
Baud Rate	1200 ~ 115200 bps	
Protocol	DCON	
CPU Module		
Dual Watchdog Timer	Module (1.6 Seconds), Communication (Programmable)	
LED Indicators		
System LED Indicator	1	
I/O LED Indicator	8	
Isolation		
Intra-module Isolation, Field-to-Logic	3750 VDC	2000 VDC
EMS Protection		
ESD (IEC 61000-4-2)	±4 kV Contact for Each port, ±8 kV Air for Random Poin	
Power		
Consumption	2.1 W Max.	1.2 W Max.
Mechanical		
Dimensions (W x L x H)	30 mm × 115 mm × 102 mm	
Environment		
Operating Temperature	-25 ~ +75 °C	
Storage Temperature	-40 ~ +85 °C	
Humidity	10 ~ 95 % RH, Non-condensing	

I/O Specifications

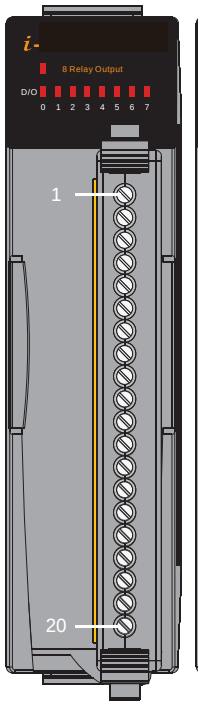
Model			I-87068W	I-87068W-2A
Relay Output				
Channels			8 (Form A x 4, Form C x 4)	
Type			Power Relay	Signal Realy
Contact Material			Sliver, Sliver Alloy	Silver Nickel, Gold-plated
Form A	Contact Rating	Max. Load Current	8 A @ 28 VDC, 8 A @ 250 VAC	2 A @ 30 VDC 0.24 A @ 220 VDC 0.25 A @ 250 VAC
		Min. Load Current	100 mA @ 5 VDC	1 uA @ 100 uV
	Operate Time		15 ms (typical)	3 ms (typical)
	Release Time		4 ms (typical)	4 ms (typical)
	Mechanical Endurance		10^7 ops	10^8 ops
	Electrical Endurance		10^5 ops	$2 * 10^5$ ops
Form C	Contact Rating	Max. Load Current	5 A (NO)/3 A (NC) @ 30 VDC 5 A (NO)/3 A (NC) @ 277 VAC	2 A @ 30 VDC 0.24 A @ 220 VDC 0.25 A @ 250 VAC
		Min. Load Current	100 mA @ 5 VDC	1 uA @ 100 uV
	Operate Time		10 ms (typical)	3 ms (typical)
	Release Time		5 ms (typical)	4 ms (typical)
	Mechanical Endurance		$10 * 10^6$ ops	10^8 ops
	Electrical Endurance		10^5 ops	$2 * 10^5$ ops
Power-on Value			Yes	
Safe Value			Yes	

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Internal I/O Structure

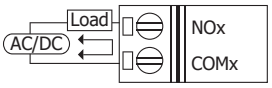
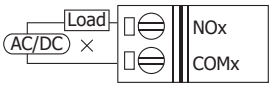
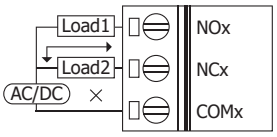
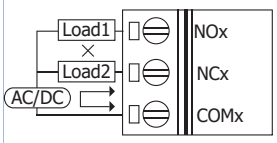


Pin Assignments



Terminal No.	Pin Assignment
01	NO0
02	COM0
03	NO1
04	COM1
05	NO2
06	COM2
07	NO3
08	COM3
09	NO4
10	NC4
11	COM4
12	NO5
13	NC5
14	COM5
15	NO6
16	NC6
17	COM6
18	NO7
19	NC7
20	COM7

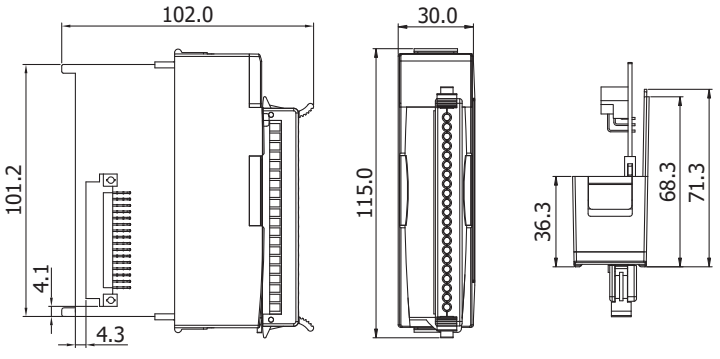
Wire Connections

Output Type	ON State Readback as 1	ON State Readback as 0
Form A Relay in RL0 ~ RL3		
Form C Relay in RL4 ~ RL7		

Applications

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

Dimensions (Unit: mm)



Left View | Front View | Top View

Ordering Information

I-87068W-G CR	4-channel Form A Power Relay Output and 4-channel Form C Power Relay Output Module (RoHS)
I-87068W-2A-G CR	4-channel Form A Signal Relay Output and 4-channel Form C Signal Relay Output Module (RoHS)

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