



I-87061W I-87061PW 16-channel Power Relay Output Module

Introduction

The I-87061PW is a 16-channel Power Relay Output module where each Relay Output channel is independent. The I-87061W is a 16-channel power relay output module with the output channels partitioned into four groups, where each group provides four channels that share a single COM point. Both the I-87061W and I-87061PW modules include 16 LED indicators that can be used to monitor the status of the relay output, and options for configuring both power-on and safe relay output values are also available. 4 kV ESD protection and 3750 VDc intra-module isolation are provided as standard to enhance the noise protection capabilities in harsh industrial environments.

System Specifications

Model	I-87061W I-87061PW		
Communication			
Interface	RS-485		
Format	N, 8, 1		
Baud Rate	1200 to 115200 bps		
Protocol	DCON		
Dual Watchdog	Yes, Module (1.6 Seconds), Communication (Programmable)		
LED Indicators/Display	1		
System LED Indicators	Yes, 1 as Power/Communication Indicator		
I/O LED Indicators	Yes, 16 as Power Relay Output Indicators		
7-Segment LED Display	-		
Isolation			
Intra-module Isolation, Field-to-Logic	3750 VDC		
EMS Protection			
	±4 kV Contact for each Terminal		
ESD (IEC 61000-4-2)	±8 kV Air for Random Point		
Power			
Power Consumption	1.9 W Max.		
Mechanical			
Dimensions (L \times W \times H)	115 × 30 × 102 (mm) 114 × 30 × 100 (mm)		
Environment			
Operating Temperature	-25 to +75°C		
Storage Temperature	-40 to +85°C		
Humidity	10 to 95% RH, Non-condensing		

Features

I-87061W

16-channel Power Relay Output partitioned into four groups, where each group provides four channels that share a single COM point.

- I-87061PW
- The I-87061PW is a 16-channel Power Relay Output module where each Relay Output channel is independent.
- ±4 kV ESD Protection
- 3750 VDC Intra-module Isolation
- Configurable Power-on Value Settings
- Configurable Safe Value Settings
- Dual Watchdog
- Wide Operating Temperature Range: -25 to +75°C



Applications

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

I/O Specifications

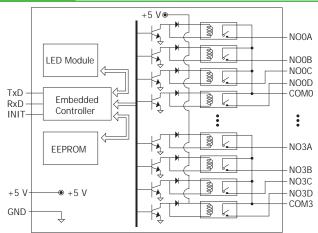
Model		I-87061W	I-87061PW	
Relay 0	Dutput			
Channe	S	16 (Form A)		
Туре		Power Relay		
Wiring		Four groups, each group providing four channels that share a single COM point.	Differential	
	Contact Rating	10 A @ 250 VAC/per Module COM point 10 A @ 24 VDC/per Module COM point Max. Single Relay Load Current 5 A at 25°C	3 A @ 250 VAC/per Channel 3 A @ 24 VDC/per Channel	
Form A	Min. Contact Load	10 mA @ 5 V		
Relay	Contact Material	Silver Tin Alloy		
	Operate Time 10 ms			
Release Time		5 ms		
	Mechanical Endurance	2 × 107 ops.		
Electrical Endurance		1 × 105 ops.		
Power-on Value		Yes		
Safe Value		Yes		

Wire Connections

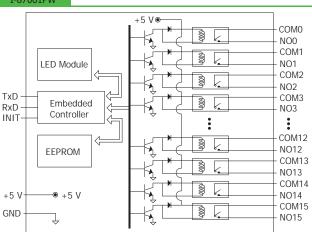
Output Type	ON State Readback as 1	OFF State Readback as 0	
Relay Output	AC/DC COMx	AC/DC × COMx	

Internal I/O Structure





I-87061PW



Pin Assignments

I-87061W

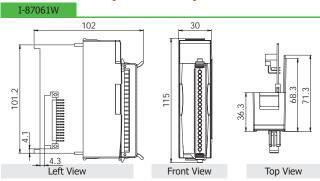
<i>i</i> -87061W	Term	ninal No.	Pin Assignment
Power Relay Output	[" = (01	NO0A
0 1 2 3 4 5 6 7		02	NO0B
8 9 10 11 12 15	[= [03	NO0C
	, - (04	NO0D
	Ç = I	05	COM0
	[• (06	NO1A
r 🛛 🖉 ir	(= I	07	NO1B
	201	08	NO1C
	(°	09	NO1D
	[• I	10	COM1
	C	11	NO2A
		12	NO2B
	C = (13	NO2C
		14	NO2D
	C	15	COM2
	<u>C</u>	16	NO3A
	C 🖬	17	NO3B
		18	NO3C
20 - 9	C II	19	NO3D
	<u>, </u>	20	COM3

<i>i</i> -87061PW Power Relay Output D/O 0 1 2 3 4 5 6 7 D/O 8 9 10 11 12 13 14 15	1

I-87061PW

7061PW rer Relay Output	Pin Assignment		Terminal No.		Pin Assignment
234567	NO0	01		17	COM0
10 11 12 13 14 15	NO1	02		18	COM1
	NO2	03		19	COM2
	NO3	04		20	COM3
	NO4	05		21	COM4
	NO5	06		22	COM5
	NO6	07		23	COM6
	NO7	08		24	COM7
	NO8	09		25	COM8
	NO9	10		26	COM9
	NO10	11		27	COM10
	NO11	12		28	COM11
OO - 32	NO12	13		29	COM12
	NO13	14		30	COM13
	NO14	15		31	COM14
	NO15	16		32	COM15
				•	

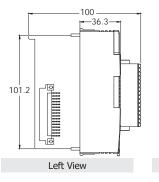
Dimensions (Units: mm)

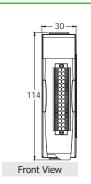


Ordering Information

I-87061W-G CR	16-channel Power Relay Output Module (4 groups, Each group provides 4-channels that share a single COM point) (Gray Cover) (RoHS)
I-87061PW-G CR	16-channel Power Relay Output Module (Each Relay Output Channel is Independent)(Gray Cover) (RoHS)

I-87061PW







Accessories



7-channel Differential or 14-channel Single-ended Surge Protector (RoHS)

ICP DAS CO., LTD