

**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		
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		
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal	
	±8 kV Air for Random Point	
Power		
Power Consumption	1.9 W Max.	
Mechanical		
Dimensions (L x W x H)	115 mm x 30 mm x 102 mm	114 mm x 30 mm x 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

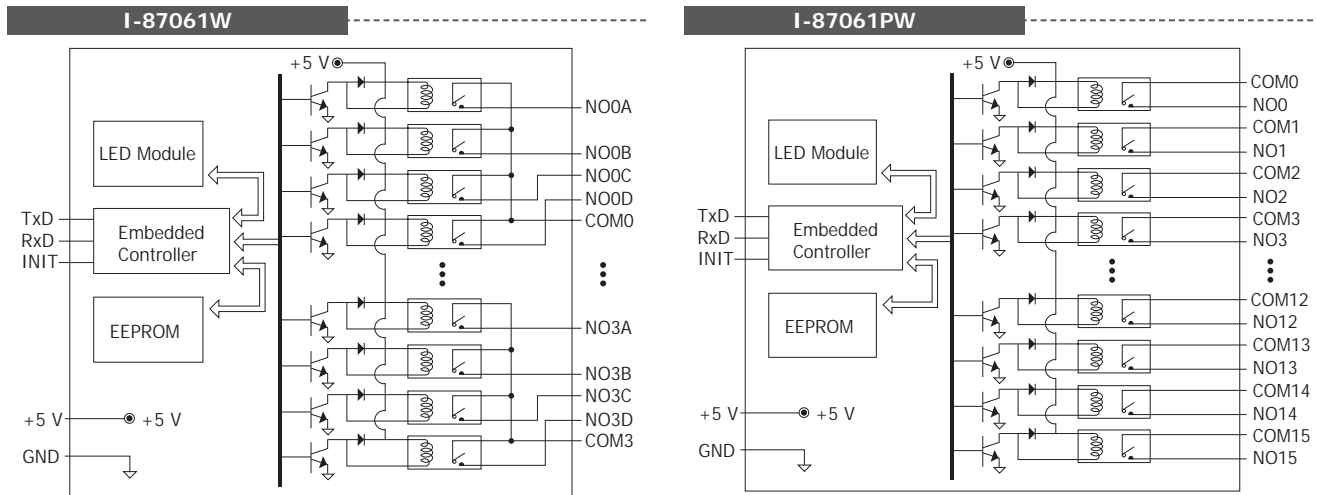
## I/O Specifications

Model	I-87061W	I-87061PW
<b>Relay Output</b>		
Channels	16 (Form A)	
Type	Power Relay	
Wiring	Four groups, each group providing four channels that share a single COM point.	Differential
Form A Relay	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
	Min. Contact Load	10 mA @ 5 V
	Contact Material	Silver Tin Alloy
	Operate Time	10 ms
	Release Time	5 ms
	Mechanical Endurance	2 × 10 <sup>7</sup> ops.
	Electrical Endurance	1 × 10 <sup>5</sup> ops.
Power-on Value	Yes	
Safe Value	Yes	

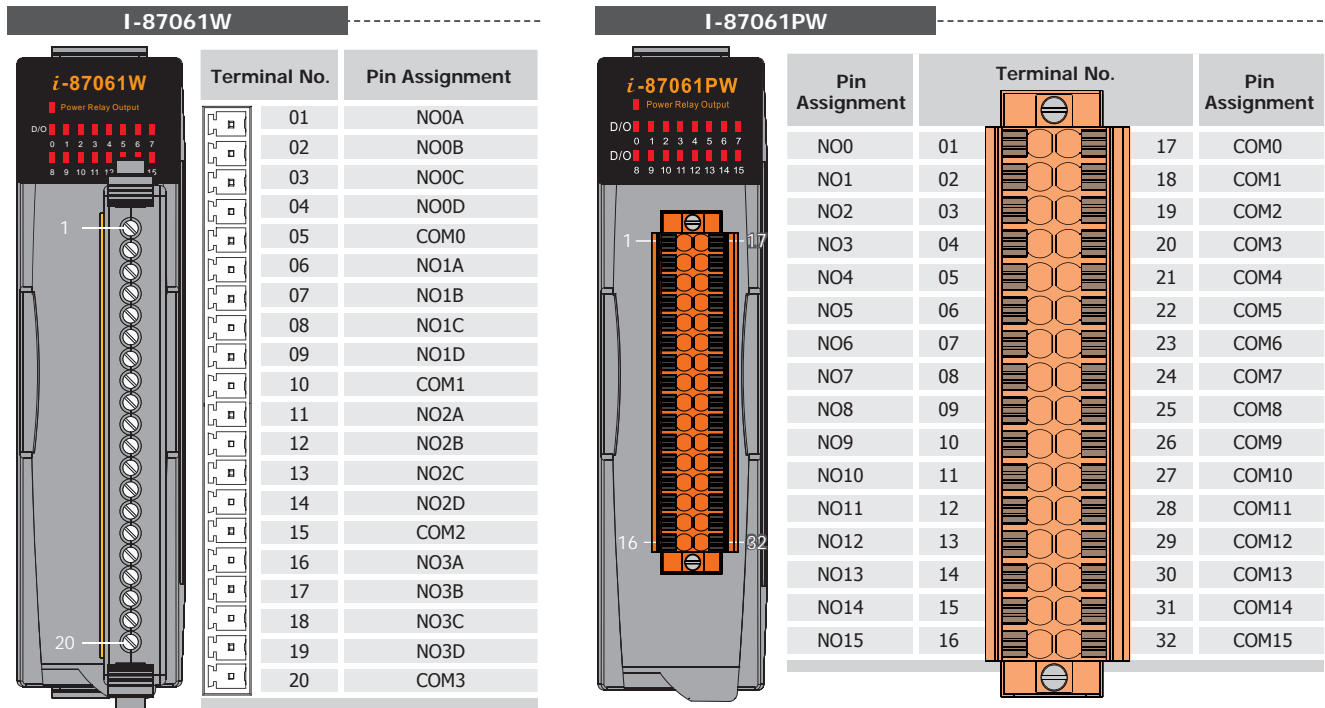
## Wire Connections

Output Type	ON State Readback as 1	OFF State Readback as 0
Relay Output		

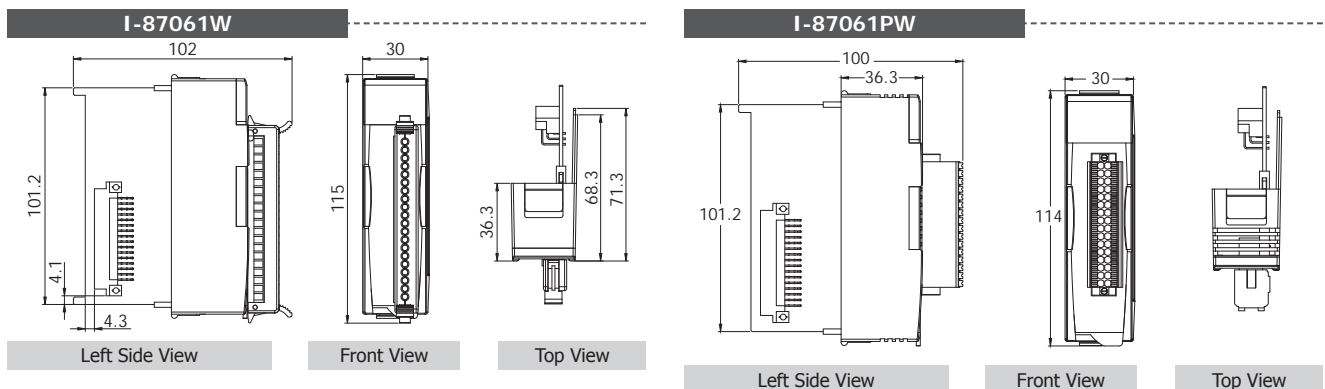
## Internal I/O Structure



## Pin Assignments



## Dimensions (Units: mm)



## Ordering Information

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

## Accessories

 <b>SG-770 CR</b>	7-channel Differential or 14-channel Single-ended Surge Protector (RoHS)
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