



I-8063W-G

4-channel Isolated Digital Input and
4-channel Relay Output Module

Features

- 4-channel Digital Input and 4-channel Relay Output
- Form C Power Relay Output
- Sink-type and Source-type Digital Input Channels
- ± 4 kV ESD Protection
- 3750 Vrms Intra-module Isolation
- Wide Operating Temperature Range: $-25 \sim +75$ °C



Introduction

The I-8063W module provides 4 Isolated Digital Input channels and 4 Form C Relay Output channels. In addition, either sink-type or source-type Digital Input can be selected via the wire connections. The I-8063W includes 8 LED indicators that can be used to monitor the status of the Digital Input and Relay Output, and options are available for configuring power-on and safe values. 4 kV ESD protection and 3750 Vrms intra-module isolation are also provided to enhance the noise protection capabilities of the module in harsh industrial environments.

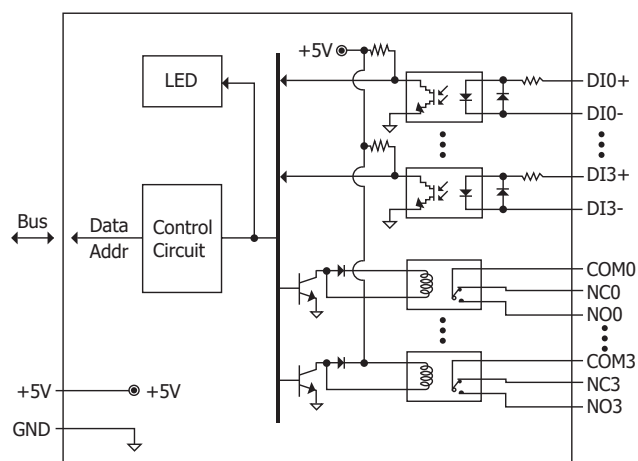
System Specifications

LED Indicators/Display	
System LED Indicators	1 LED as Power Indicator
I/O LED Indicators	8 LEDs as Digital Input and Relay output Indicators
Isolation	
Intra-module Isolation, Field-to-Logic	3750 Vrms
EMS Protection	
ESD (IEC 61000-4-2)	± 4 kV Contact for each Terminal
Power	
Power Consumption	2 W max.
Mechanical	
Dimensions (W x L x H)	30 mm x 115 mm x 102 mm
Environment	
Operating Temperature	$-25 \sim +75$ °C
Storage Temperature	$-40 \sim +85$ °C
Humidity	10 to 90% RH, Non-condensing

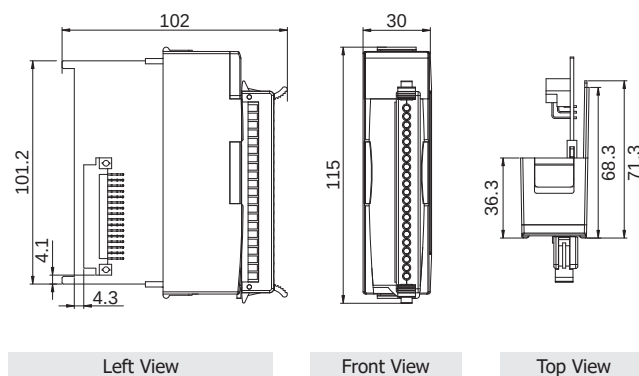
I/O Specifications

Digital Input		
Channels		4
Type		Differential
Sink/Source		Sink/Source
ON Voltage Level		+10 ~ +30 VDC
OFF Voltage Level		+4 VDC max.
Input Impedance		3 kΩ, 0.5 W
Digital Output		
Channels		4
Type		Power Relay, Form C
Relay Contact Voltage Range		5 A (NO)/3 A (NC) @ 30 VDC; 5 A (NO)/3 A (NC) @ 277 VAC
Max. Load Current		5 A (NO)/3 A (NC) @ 65 °C
Max. Operate Time		10 ms max.
Max. Release Time		5 ms max.
Insulation Resistance		Min. 100 MΩ @ 500 VDC
Dielectric Strength	Between Open Contacts	500 Vrms (at 1 Minute)
	Between Open Contacts	1000 Vrms (at 1 Minute)
Relay Life	Mechanical	100,000,000 min.
	Electrical	500,000 min. @ 30 Vdc @ 2 A, Resistive

Internal I/O Structure



Dimensions (Units: mm)



Wire Connections

Input Type	ON State LED ON Readback as 0	OFF State LED OFF Readback as 1
Relay Contact	Relay ON 	Relay OFF
TTL/CMOS Logic	Voltage > 10 V 	Voltage < 4 V
Open Collector	Open Collector ON 	Open Collector OFF
Output Type	ON State Readback as 1	OFF State Readback as 0
Relay Contact	Relay ON 	Relay OFF

Pin Assignments

Terminal No.	Pin Assignment
01	DI0+
02	DI0-
03	DI1+
04	DI1-
05	DI2+
06	DI2-
07	DI3+
08	DI3-
09	NO0
10	NC0
11	COM0
12	NO1
13	NC1
14	COM1
15	NO2
16	NC2
17	COM2
18	NO3
19	NC3
20	COM3

Ordering Information

I-8063W-G CR	4-channel Isolated Digital Input and 4-channel Relay Output Module (Gray Cover) (RoHS)
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