



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

<b>⊞</b> 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 V <sub>DC</sub> Intra-module Isolation
■ Wide Operating Temperature Range: -25 ~ +75 °C
CE FE KOHS

#### **■** 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 VDC intra-module isolation are also provided to enhance the noise protection capabilities of the module in harsh industrial environments.

#### **■ System Specifications**

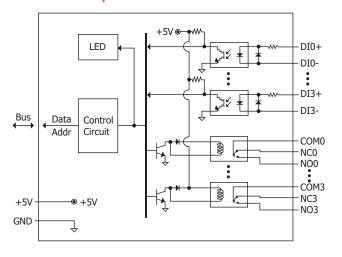
LED Indicators/Display		
System LED Indictors	1 LED as Power Indicator	
I/O LED Indicators	8 LEDs as Digital Input and Relay output Indicators	
Isolation		
Intra-module Isolation, Field-to-Logic	3750 VDC	
EMS Protection		
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal	
Power		
Power Consumption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

#### **■ I/O Specifications**

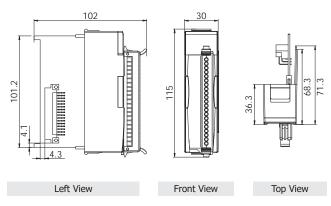
Digital Input		
Channels		4 Differential
Туре		Wet Contact
Sink/Source (NPN/PNP)		Sink, Source
ON Voltage Level		+10 ~ +30 VDC
OFF Voltage Level		+4 VDC max.
Input Impedance		3 kΩ, 0.5 W
Digital Output		
Max. Load Current		5 A (NO)/3 A (NC) @ 65 °C
Relay Output		
Channels		6 (Form C)
Туре		Power Relay
Contact Rating		5 A (NO)/3 A (NC) @ 30 VDC; 5 A (NO)/3 A (NC) @ 277 VAC
Operate Time		10 ms Max.
Release Time		5 ms Max.
Electrical Endurance		500,000 Min. @ 30 VDC @ 2 A, Resistive
Mechanical Endurance		100,000,000 Min.
Surge	Between Open Contacts	500 Vrms (at 1 Minute)
Strength	Between Coil and Contacts	1000 Vrms (at 1 Minute)

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# **■ Internal I/O Structure**



# **■** Dimensions (Units: mm)

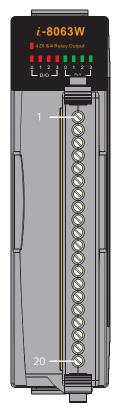


#### **■ Wire Connections**

Input Type	ON State LED ON Readback as 0	OFF State LED OFF Readback as 1
	Relay ON	Relay OFF
Relay Contact	+ DIx+ Relay Close	+ Elay Open DIx+ DIx-
	Voltage > 10 V	Voltage < 4 V
TTL/CMOS Logic	Logic Power DIx+ Logic Level Low DIx-	Logic Power DIX+ Logic Level High DIX-
	Open Collector ON	Open Collector OFF
Open Collector	ON ₩ DIX+	

Output Type	ON State Readback as 1	OFF State Readback as 0
	Relay ON	Relay OFF
Relay Contact	Load1 F Load2 AC/DC X □ NOX NCX NCX COMX	Load1 X Load2 AC/DC □ □ NOX NCX NCX COMX

# **■ Pin Assignments**



Teri	minal No.	Pin Assignment
	01	DIO+
	02	DIO-
	03	DI1+
	04	DI1-
	05	DI2+
	06	DI2-
	07	DI3+
	08	DI3-
<b>,</b>	09	NO0
5-0	10	NC0
G = (	11	COM0
J = (	12	NO1
_ n	13	NC1
	14	COM1
[ b	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)