



I-8048W

8-channel Non-Isolated Digital Input Module

Features

- 8-Channel Digital Input
- Isolated or Non-isolated TTL Input Jumper Selectable
- Rising/Falling-edge Interrupts Programmable
- Dry and Wet Contact, Selectable via Wire Connections
- 4 kV ESD Protection
- Wide Operating Temperature Range: -25 ~ +75 °C



Introduction

The I-8048W offer 8 channels for digital input, each of which features Photocouple-isolation protection. Either Sink Type or Source Type Input input can be selected via wire connections. All channels have 4 kV ESD protection and 1500 VDC intra-module isolation.

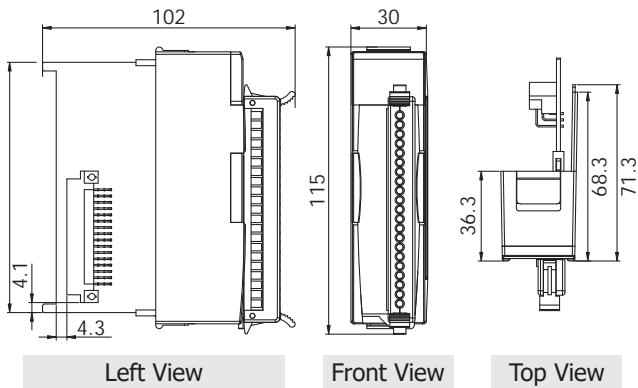
System Specifications

LED Indicators	
System LED Indicator	1 LED as Power Indicator
I/O LED Indicator	8 LEDs as I/O Status Indicator
Isolation	
Intra-module Isolation, Field-to-Logic	1500 VDC
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal
Power	
Consumption	1.75 W Max
Mechanical	
Dimensions (W x L x H)	30 mm x 102 mm x 115 mm
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-30 ~ +85 °C
Humidity	5 ~ 95 % RH, Non-condensing

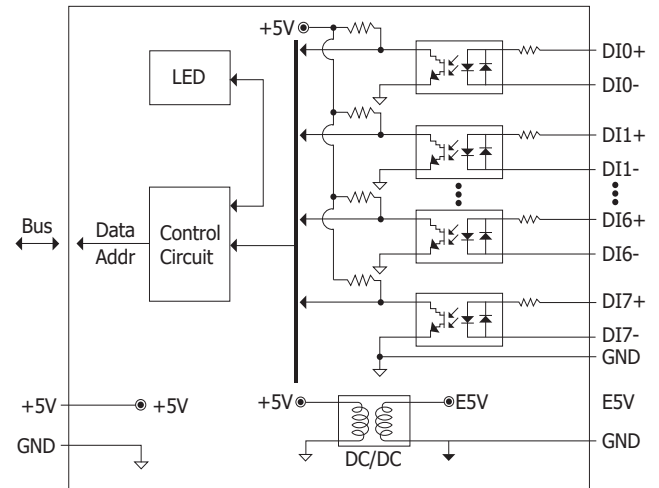
I/O Specifications

Digital Input	
Channels	8
Type	Dry Contact, Wet Contact
Sink/Source (NPN/PNP)	Sink/Source
ON Voltage Level	Isolated: 4 ~ 30 V, Non-isolated TTL: 0 ~ 0.8 V
OFF Voltage Level	Isolated: 0 ~ 1 V, Non-isolated TTL: 2 ~ 5 V
Interrupts	Yes. Trigger type: Rising/Falling edge programmable for each channel. Max. Interrupt Frequency: 10 kHz Max.
Input Impedance	2.4 kΩ, 0.5 W

■ Dimensions (Units: mm)



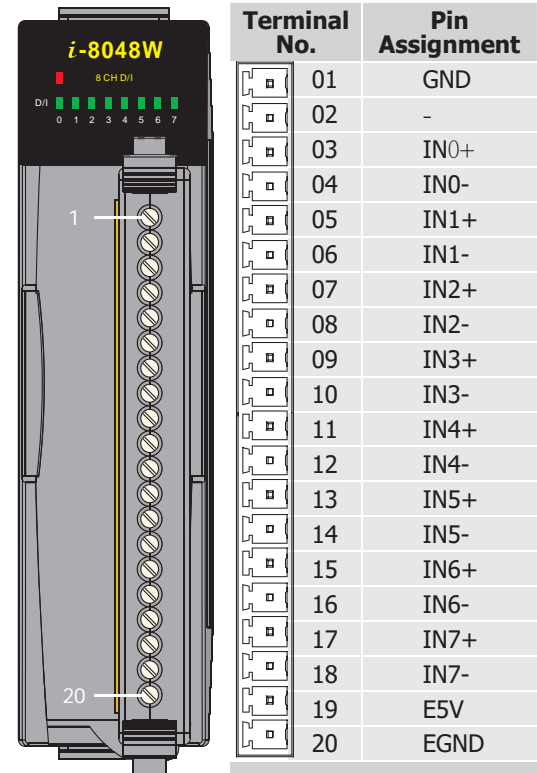
■ Internal I/O Structure



■ Wire Connections

Input Type	ON State Readback as 1	OFF State Readback as 0
Wet Contact		
Relay Contact	Relay ON 	Relay OFF
	Voltage < +4 V 	Voltage > +4 V
NPN Output (Sink)	Open Collector ON 	Open Collector OFF
	Open Collector ON 	Open Collector OFF
PNP Output (Source)	Open Collector ON 	Open Collector OFF
	Open Collector ON 	Open Collector OFF
Dry Contact		
Relay Contact	Relay ON 	Relay OFF
	Voltage < +4 V 	Voltage > +4 V
TTL/CMOS Logic	Open Collector ON 	Open Collector OFF
	Open Collector ON 	Open Collector OFF

■ Pin Assignments



■ Ordering Information

I-8048W-G CR	8-Channel Non-Isolated Digital Input Module (RoHS)
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