

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

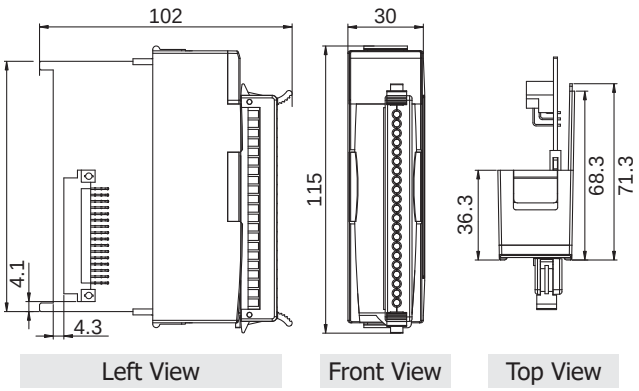
LED Indicators	
System LED Indicator	1 LED as Power Indicator
I/O LED Indicator	8 LEDs as I/O Status Indicator
Isolation	
Intra-module Isolation, Field-to-Logic	1500 VDC
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal
Power	
Consumption	1.75 W Max
Mechanical	
Dimensions (W x L x H)	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

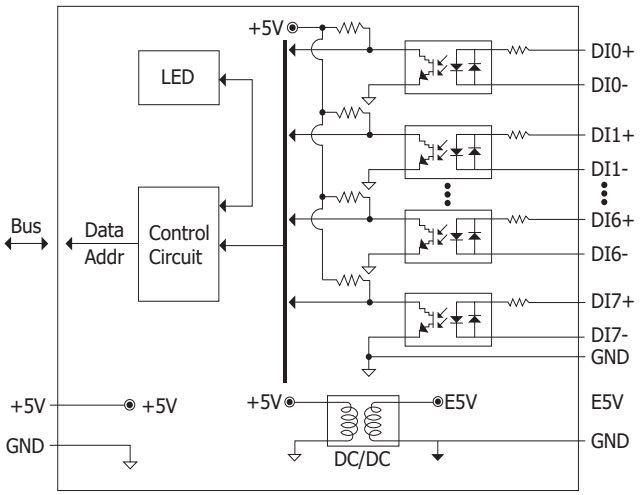
Digital Input	
Channels	8
Type	Dry Contact, Wet Contact
Sink/Source (NPN/PNP)	Sink/Source
ON Voltage Level	Isolated: 4 ~ 30 V, Non-isolated TTL: 0 ~ 0.8 V
OFF Voltage Level	Isolated: 0 ~ 1 V, Non-isolated TTL: 2 ~ 5 V
Interrupts	Yes. Trigger type: Rising/Falling edge programmable for each channel. Max.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

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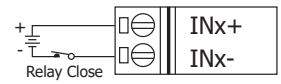
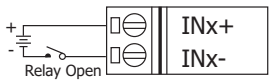
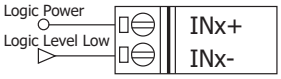
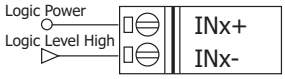
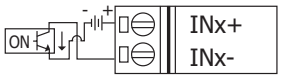
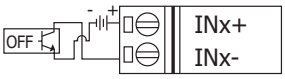
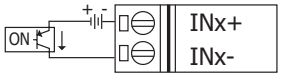
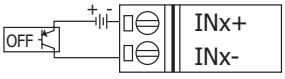
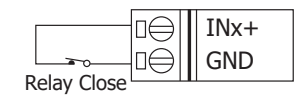
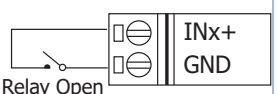
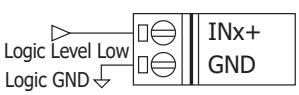
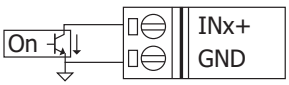
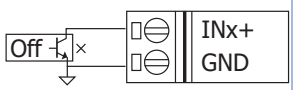
Dimensions (Units: mm)



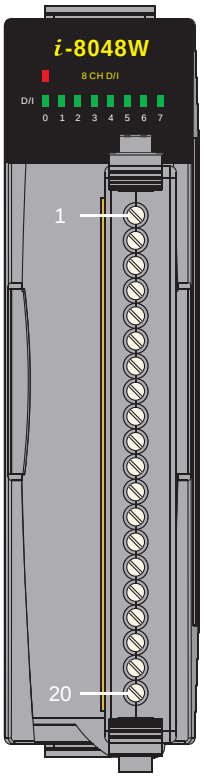
Internal I/O Structure



Wire Connections

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

Pin Assignments



Terminal No.	Pin Assignment
01	GND
02	-
03	IN0+
04	IN0-
05	IN1+
06	IN1-
07	IN2+
08	IN2-
09	IN3+
10	IN3-
11	IN4+
12	IN4-
13	IN5+
14	IN5-
15	IN6+
16	IN6-
17	IN7+
18	IN7-
19	E5V
20	EGND

Ordering Information

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

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