



I-8048W-G

8-channel 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
- Photocouple-isolation protection
- ± 4 kV ESD Protection
- 3750 Vrms Intra-module Isolation
- Wide Operating Temperature Range: $-25 \sim +75$ °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 3750 Vrms intra-module isolation.

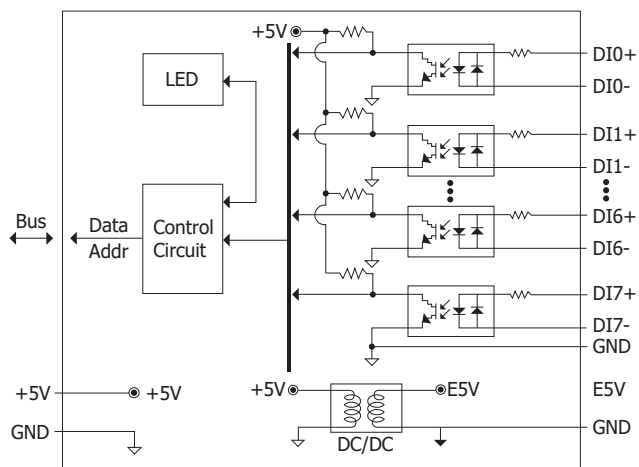
System Specifications

LED Indicators/Display	
System LED Indictors	1 LED as Power Indicator
I/O LED Indicator	8 LEDs as Digital Input 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	1.75 W max.
Mechanical	
Dimensions (W x L x H)	30 mm x 102 mm x 115 mm
Environment	
Operating Temperature	$-25 \sim +75$ °C
Storage Temperature	$-40 \sim +85$ °C
Humidity	10 ~ 90% RH, Non-condensing

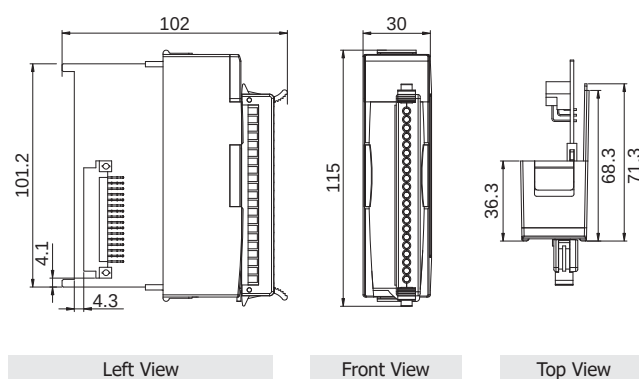
I/O Specifications

Digital Input		
Channels		8
Type		Dry + Wet Contact
Sink/Source		Sink/Source
Isolated	On Voltage Level	+4 ~ +30 VDC
	Off Voltage Level	0 ~ +1 VDC
Non-Isolated	On Voltage Level	0 ~ +0.8 VDC
	Off Voltage Level	+2 ~ +5 VDC
Input Impedance		2.4 k Ω , 0.5 W
Built-in Isolated Power Supply		200 mA @ 5V
Interrupt Inputs		8 (DI0 ~ DI8) Trigger type: Rising/falling edge programmable for each channel Max. Interrupt frequency: 10 KHz max

Internal I/O Structure



Dimensions (Units: mm)

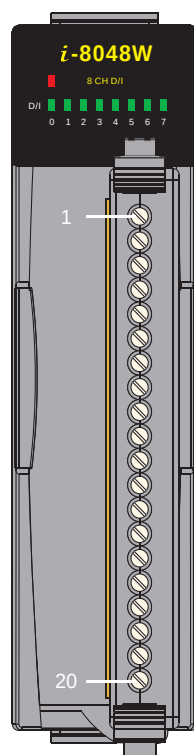


Wire Connections

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 < +4 V 	Voltage > +4 V
NPN Output	Open Collector ON 	Open Collector OFF
PNP Output	Open Collector ON 	Open Collector OFF

Non-Isolated		
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 < 0.8 V 	Voltage > +2 V
Open Collector	Open Collector ON 	Open Collector OFF

Pin Assignments



Terminal No.	Pin Assignment
01	GND
02	-
03	IN 0+
04	IN 0-
05	IN 1+
06	IN 1-
07	IN 2+
08	IN 2-
09	IN 3+
10	IN 3-
11	IN 4+
12	IN 4-
13	IN 5+
14	IN 5-
15	IN 6+
16	IN 6-
17	IN 7+
18	IN 7-
19	E5V
20	EGND

Ordering Information

I-8048W-G CR	8-channel Digital Input with Interrupt Module (Gray Cover) (RoHS)
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