



I-87058W | I-87059W

8-channel Isolated Digital Input Module with 16-bit Counter

Features

- 8-channel AC/DC Digital Input
- Low Pass Filter
- All Digital Channels Input can be used as Counter
- 2 kV Channel-to-Channel Isolation
- 5000 Vrms Intra-module Isolation
- Overvoltage Protection
- 4 kV ESD Protection

Introduction

The I-87058W is an 8-channel AC/DC digital input module with high voltage isolation. The ON voltage level for the module range can be between 80 ~ 250 VAC/VDC, and all DI channels are also able to be used as 16-bit counters. The I-87059W is an 8-channel AC/DC digital input module with high voltage isolation. The ON voltage level for the module range can be between 10 ~ 80 VAC or 15 ~ 80 VDC, and all DI channels are also able to be used as 16-bit counters.

The I-87058W and I-87059W include 8 LED indicators that can be used monitor DI channel status. 4 kV ESD protection and 5000 Vrms intra-module isolation are standard.

System Specifications

Model	I-87058W	I-87059W
COM Port		
Ports	RS-485	
Data Format	N, 8, 1	
Baud Rate	1200 ~ 115200 bps	
Protocol	DCON	
CPU Module		
Dual Watchdog Timer	Module (1.6 Seconds), Communication (Programmable)	
LED Indicators		
System LED Indicator	1	
I/O LED Indicator	8	
Isolation		
Intra-module Isolation, Field-to-Logic	5000 Vrms	
EMS Protection		
ESD (IEC 61000-4-2)	±4 kV Contact for Each port, ±8 kV Air for Random Poin	
Power		
Consumption	0.3 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 ~ 95 % RH, Non-condensing	

I/O Specifications

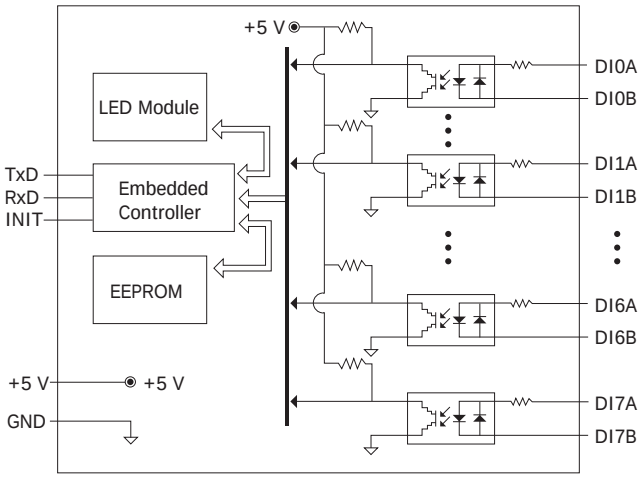
Model	I-87058W	I-87059W
Digital Input/Counter		
Channels	8	
Type	Differential	
On Voltage Level	80 ~ 250 VAC, 80 ~ 250 VDC	10 ~ 80 VAC, 15 ~ 80 VDC
OFF Voltage Level	30 VAC/VDC Max.	3 VAC/VDC Max.
AC Frequency	50 ~ 400 Hz	
Input Impedance	68 KΩ, 2 W	10 KΩ, 1 W
Max. Counts	16-bit (65535)	
Frequency	100 Hz	
Min. Pulse Width	5 ms	
Channel-to-Channel Isolation	2 kV	
Low Pass Filter	Yes	
Overvoltage Protection	300 VAC/VDC Max.	100 VAC/VDC Max.

Applications

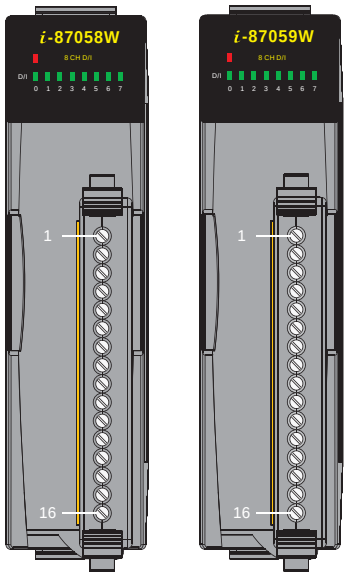
- Building Automation
- Factory Automation
- Machine Automation
- Remote Maintenance
- Remote Diagnosis
- Testing Equipment

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Internal I/O Structure

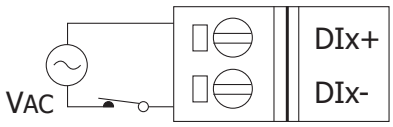
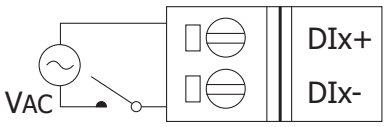
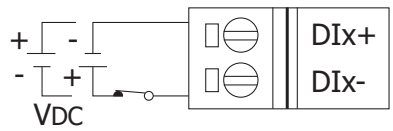
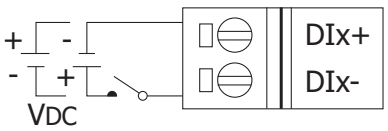


Pin Assignments

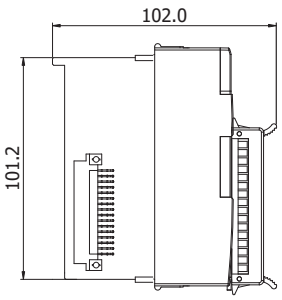


Terminal No.	Pin Assignment
01	DI0A
02	DI0B
03	DI1A
04	DI1B
05	DI2A
06	DI2B
07	DI3A
08	DI3B
09	DI4A
10	DI4B
11	DI5A
12	DI5B
13	DI6A
14	DI6B
15	DI7A
16	DI7B

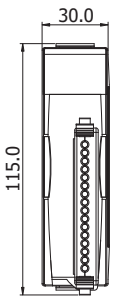
Wire Connections

Digital Input/Counter	ON State Readback as 1		ON State Readback as 0	
	I-87058W	I-87059W	I-87058W	I-87059W
AC Digital Input	80 ~ 250 VAC	10 ~ 80 VAC	OPEN or < 30 VAC Max.	OPEN or < 3 VAC Max.
				
DC Digital Input	80 ~ 250 VDC	10 ~ 80 VDC	OPEN or < 30 VDC Max.	OPEN or < 3 VDC Max.
				

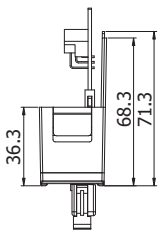
Dimensions



Left View



Front View



Top View

Accessories

	**SG-770 CR**	7/14-channel Different/Single-ended Surge Protector (RoHS)

Ordering Information

I-87058W-G CR	8-channel 80 to 250 VAC/VDC Isolated Digital Input Module with 16-bit Counters (RoHS)
I-87059W-G CR	8-channel 10 to 80 VAC and 15 to 80 VDC Isolated Digital Input Module with 16-bit Counters (RoHS)

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