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I-87055W

8-channel Non-isolated Digital Input and 8-channel Non-isolated Digital Output Module

Introduction _

The I-87055W module offers 8 non-isolated Digital Input channels and 8 nonisolated Digital Output channels. All Digital Input channels are also able to be used as 16-bit counters. The I-87055W supports sink-type Digital Output and Digital Input with dry contact connections. The I-87055W includes 16 LED indicators that can be used to monitor the status of the Digital Input and Digital Output channels, and options are available for configuring both poweron and safe values. 4 kV ESD protection is provided for the Digital Input and Digital Output channels as standard.

Features

8-channel Non-isolated Digital Input and 8-channel Non-isolated Digital Output

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- Sink-type Digital Output Channels
- Dry Contact Digital Input Channels All Digital Input Channels can be used as 16-bit Counters
- All Channels are Non-isolated
- 4 kV ESD Protection
- Configurable Power-on Value
- Configurable Safe Value
- RoHS Compliant
- Wide Operating Temperature Range: -25 to +75°C

CEF© RoHS

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

System Specifications -

Communication		
Interface	RS-485	
Format	N, 8, 1	
Baud Rate	1200 to 115200 bps	
Protocol	DCON	
Dual Watchdog	Yes, Module (1.6 Seconds), Communication (Programmable)	
LED Indicators/Display		
System LED Indictors	Yes, 1 as Power/Communication Indicator	
I/O LED Indicators	16 as High/Low Alarm Signals	
Isolation		
Intra-module Isolation, Field-to-Logic	-	
EMS Protection		
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal	
ESD (IEC 01000-4-2)	±8 kV Air for Random Point	
Power		
Power Consumption	0.6 W Max.	
Mechanical		
Dimensions (L x W x H)	115 mm x 30 mm x 102 mm	
Environment		
Operating Temperature	-25 to +75°C	
Storage Temperature	-40 to +85°C	

I/O Specifications .

Digital Input		
Channels		8
Туре		Dry Contact
Sink/Source	e (NPN/PNP)	Sink
ON Voltage	Level	Close to GND
OFF Voltag	e Level	Open
	Channels	8
Counters	Max. Count	16-bit (65535)
Counters	Max. Input Frequency	100 Hz
	Min. Pulse Width	5 ms
Channel-to	-Channel Isolation	-
Low Pass Filter		Yes
Effective Distance for Dry Contact		100 m Max.
Digital Ou	itput	
Channel		8
Туре		Open Collector
Sink/Source (NPN/PNP)		Sink
Load Voltage		+5 VDC ~ +30 VDC
Max. Load Current		100 mA/channel
Short Circuit Protection		-
Power-on V	/alue	Yes
Safe Value		Yes

-87055W

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Remote I/O Modules -

+5 V ® DI0 <1 : : LED Module DI7 TxD GND Embedded Ĺ RxD INIT Controller DO.PWR DO0 : EEPROM ŀ∙j : DO7 +5 V • +5 V GND GND ļ

102 30 50 102

Dimensions (Units: mm)

RS-485 Remote I/O Modules

Wire Connections ____

Internal I/O Structure

Input Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
	Relay ON	Relay OFF
Relay Contact	Relay Close	Relay Open
	Voltage < +1 V	Voltage > +3.5 V
TTL/CMOS Logic	Logic Level Low Logic GND ↓ □⊖ DIX GND	Logic Level High Logic GND ↓ □⊖ GND
	Open Collector ON	Open Collector OFF
Open Collector		
Input Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
	Relay ON	Relay OFF
Drive Relay		
Resistance Load	+ ↓ + ↓ □ ↓ DO.PWR DOx D ↓ Ox GND	+ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

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Pin Assignments

	Term	inal No.	Pin Assignment
	[]	01	D10
	, • (02	DI1
ľ	(= (03	D12
Ϋ́	, • (04	D13
	(b (05	D14
	, D (06	DI5
Ы		07	D16
	, D (08	DI7
	(¤ (09	GND
	, • (10	GND
	(n (11	GND
) • (12	DO0
H	C = (13	DO1
	, • (14	DO2
	(n (15	DO3
	[• (16	DO4
	(n (17	DO5
	[] D (18	DO6
	C = C	19	DO7
		20	DO.PWR

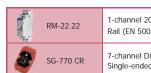
Ordering Information -

I-87055W-G CR

8-channel Non-isolated Digital Input and 8-channel Non-isolated Digital Output Module using the DCON Protocol (Gray Cover) (RoHS)

Accessories

RM-104/108/116	4/8/16-channel 16A Power Relay Board, 1 Form C
RM-204/208/216	4/8/16-channel 8A Power Relay Board, 2 Form C
DN-SSR4	4-channel 1A Solid-state Relay Board, 1 Form A



1-channel 20 A Power Relay for Direct 35 mm Rail (EN 50022) Mounting, 2 Form A 7-channel Differential or 14-channel Single-ended Surge Protector (RoHS)

I-87055W

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-87KW Series