Digital Input

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RS-485 Remote I/O Modules

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I-87KW Series



Introduction .

I-87053W offers 16 channels for digital input which cover dry contact and wet contact as well. Its effective distance for dry contact is up to 500 meters. All of its channels are not only with isolation but also able to be used as counters. I-87053W has 16 LED indicators for channel status as well as qualification for 4 KV ESD protection and 3750 Vpc intra-module isolation.

Features

- Support Digital Inputs (Dry and Wet)
- Photocouple Isolation
- Long Distance Measurement
- 4 KV ESD Protection
- 3750 V_{DC} Intra-module Isolation
- RoHS Compliant
- Wide Operating Temperature Range: -25 ~ +75°C



Applications -

Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote Diagnosis, Testing Equipment.

System Specifications .

Models	I-87053W	I-87053PW	
Communication	Communication		
Interface	RS-485		
Format	N, 8, 1		
Baud Rate	1200 ~ 115200 bps		
Protocol	DCON		
Dual Watchdog	Yes, Module (1.6 Seconds), Communication (Programmable)		
LED Indicator/Display			
System LED Indicator	1 LED as Power/Communication Indicator		
I/O LED Indicator	16 LEDs as High/Low Alarm Signals		
Isolation			
Intra-Module Isolation, Field-to-Logic	3750 V _{rms}		
EMS Protection			
ESD (IEC 61000-4-2)	4 kV Contact for Each Terminal		
L3D (ILC 01000-4-2)	8 kV Air for Random Point		
Power			
Power Consumption	wer Consumption 0.8 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	-40 ~ +85°C		
Humidity	10 ~ 95% RH, Non-condensing		

■ I/O Specifications

Models			I-87053W	I-87053PW
Digital In	put			
Channels			16	
Туре			Dry+Wet	
Sink /Source (NPN /PNP)		PN /PNP)	Sink, Source	
Dry Contact		On Voltage Level	Close to GND.	
		Off Voltage Level	Open	
Wet contact		On Voltage Level	+3.5 Vpc ~ +30 Vpc	+19 VDC ~ +30 VDC
wet contac	L	Off Voltage Level	+1 Voc Max.	+11 VDC Max.
Input Impedance		ce	3 kΩ, 0.33 W	
Channe		annels	16	
Counters	Max. Counts		16-bit (65535)	
	Max. Input Frequency		100 Hz	
	Min. Pulse Width		5 ms	
Channel to Channel Isolation		nnel Isolation	Yes	
Low Pass Filter			Yes	
Effective Distance for Dry Contact		ce for Dry Contact	500 m Max.	

I-87053W/I-87053PW

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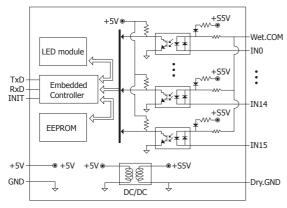


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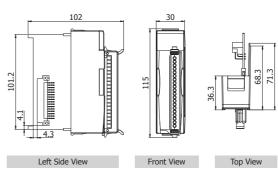
I-87KW Series

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■ Internal I/O Structure —



____ Dimensions (Units: mm) _



Input Type	ON State Readback as 1	OFF State Readback as 0
	Close to GND	Open
Dry Contact	DI.GND +SSV To other in the channels	DI.GND +SSV To other inhannels
	+10 Vpc ~ +50 Vpc	+4 Voc Max.
Wet Contact (Sink)	INX 10K	INX 10K INX 10K TO other inchannels
	+10 VDC ~ +50 VDC	+4 Vpc Max.
Wet Contact (Source)	INX 10K To other IN.COM To other channels	INX 10K To other IN.COM To other

Wire Connections ______ Pin Assignments ____

_	
16 CH Dri 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D/I
20 —	-00000000000000000000000000000000000000

Terr	ninal No.	Pin Assignment	
	01	IN0	
	02	IN1	
n (03	IN2	
	04	IN3	
	05	IN4	
	06	IN5	
Ţn(07	IN6	
J = (08	IN7	
П	09	IN8	
	10	IN9	
п	11	IN10	
	12	IN11	
[n	13	IN12	
	14	IN13	
	15	IN14	
	16	IN15	
[n	17	Wet.COM	
	18	Wet.COM	
[n	19	Dry.GND	
	20	Dry.GND	

Ordering Information _

I-870!	53W-G CR	16-channel Isolated Digital Input Module with 16-bit Counters (Gray Cover) (RoHS)
I-870	53PW-G CR	16-channel Isolated Digital Input Module with 16-bit Counters (Gray Cover) (RoHS)

Accessories



SG-770 CR

7 channel differential or 14 channel single-ended surge protector (RoHS)

I-87053W/I-87053PW

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