



A Features
32-channel Digital Input
Channel Status LED Indicators
Sink-type or Source-type Digital Input
Compatible with 24 V Levels
Optional Daughter Boards for Easy Field Wiring
3750 VDC Intra-module Isolation
■ Wide Operating Temperature Range: -25 ~ +75 °C
Rohs.

Introduction

The I-9040P is a 32-channel digital input module, each channel features photo-couple isolation and can be either sink- or source-type input, selectable by the wiring. The ON voltage level of the I-9040P is ranged from +19 V to +30 V, while the OFF voltage level is under +11 V. It is suitable for +24 VDC digital input systems. By pairing with a daughter board such as the DN-37-381-A, the wiring is easier than ever. 32 LED indicators are provided for monitoring DI channel status, together with 4 kV ESD protection and 3750 VDC intra-module isolation.

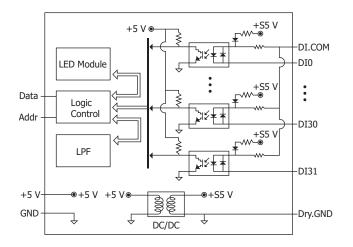
System Specifications

LED Display							
System LED Indicator	1 LED as Power Indicator						
I/O LED Indicator	32 LEDs as Digital Input Indicators						
Isolation							
Intra-module Isolation, Field-to-Logic	3750 VDC						
EMS Protection							
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal ±8 kV Air for Random Point						
Power							
Power Consumption	1 W Max.						
Mechanical							
Dimensions (W x L x H)	31 mm x 134 mm x 144 mm						
Environment							
Operating Temperature	-25 ~ +75 °C						
Storage Temperature	-40 ~ +85 °C						
Humidity	10 \sim 90 % RH, Non-condensing						

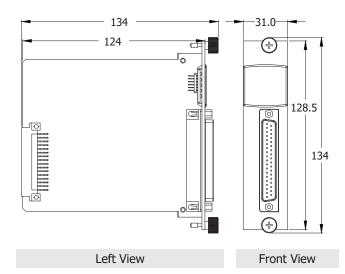
I/O Specifications

Digital Input						
Channels		32				
Sink/Source (NPN/PNP)		Sink/Source				
Input Type		Dry, Wet				
Resolution		14-bit				
Dry Contact	On Voltage Level	±0.1% of FSR				
	Off Voltage Level	±0.2% of FSR				
Wet Contact	On Voltage Level	+19 VDC ~ +30 VDC				
	Off Voltage Level	+11 VDC Max.				
Input Impedance		3 ΚΩ, 0.5W				
Low Pass Filter						
Response Time	OFF to ON	1 ms/5 ms/10 ms/20 ms/40 ms/70 ms (by Jumper select) or CPU parameter setting				
		Default Setting is Disable				
	ON to OFF	1 ms/5 ms/10 ms/20 ms/40 ms/70 ms (by Jumper select) or CPU parameter setting				
		Default Setting is Disable				

Internal I/O Structure



Dimensions (Units: mm)



Accessories

DN-37-A CR



5.08 mm) with DIN-rail Mounting (RoHS) Include: CA-3710A (DB37 Male to Female Cable, 90°, 1 M) DN-37-381-A CR

Female DB37 to Screw Terminal Board (Pitch=



Female DB37 to Screw Terminal Board (Pitch=3.81 mm) with DIN-rail Mounting (RoHS) Include: CA-3710A (DB37 Male to Female Cable, 90°, 1 M)

CA-3705A CR/CA-3710A/CA-3715A CR



DB37 Male to Female Cable, 90°, 0.5 M/1 M/ 1.5 M (RoHS)

CA-3710AM/CA-3720AM/CA-3730AM/ CA-3750AM/CA-37100AM CR

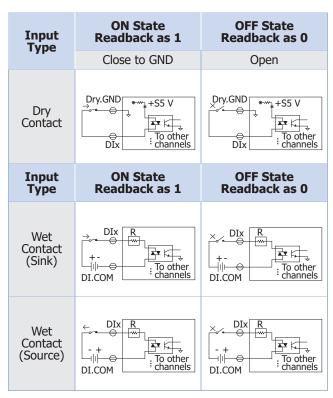


DB37 Male to Female, with Molded Cable, 45°, 1 M/2 M/3 M/5 M/10 M (RoHS)

Pin Assignments

<i>i-9040P</i>	Pin Assign- ment	Tei	rminal No.		Pin Assign- ment
32 CH DI 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7 8 0 1 2 2 3 4 5 6 7 8 0 1 2 2 3 4 5 6 7 8 0 1 2 1 2 1 3 1 1 5 16 17 18 19 20 21 22 23 24 25 25 27 28 29 30 3 3 24 25 26 27 28 29 30 3 3 26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DI.COM Dry.GND Dry.GND DI15 DI14 DI13 DI12 DI11 DI10 DI9 DI8 DI7 DI6 DI5 DI4	19 18 17 16 15 14 13 12 11 10 09 08 07 06 05		 37 36 35 34 33 32 31 30 29 28 27 26 25 24 	DI.COM Dry.GND DI31 DI30 DI29 DI28 DI27 DI26 DI25 DI24 DI23 DI22 DI21 DI21
● <mark>●</mark> ●	DI3 DI2 DI1 DI0	04 03 02 01	Ü		DI19 DI18 DI17 DI16 Din Male Connector

Wire Connections



Ordering Information



32-ch Isolated DI (Dry, Wet) Module with Low Pass Filter (RoHS)