



## I-9040P

32-channel Isolated Digital Input Module

### 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



### 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 ~ 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 KΩ, 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

