



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

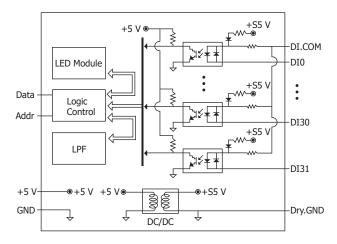
The ON voltage level of the I-9040P is ranged from +19 V to +30 V, while the OFF voltage level is under +11 V. It is suitable for +24 VDC digital input systems. By pairing with a daughter board such as the DN-37-381-A, the wiring is easier than ever. 32 LED indicators are provided for monitoring DI channel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

■ System Specifications ■ I/O Specifications ■

Model	I-9040P	
LED Display		
System LED Indictors	1 LED as Power Indicator	
I/O LED Indicator	32 LEDs as Digital Input Indicators	
Isolation		
Intra-module Isolation, Field to logic	3750 Vrms	
EMS Protection		
ECD/IEC (1000 4.2)	±4 kV Contact for Each Terminal	
ESD(IEC 61000-4-2)	±8 kV Air for Random Point	
Power		
Power Consumption	1 W Max.	
Mechanical		
Dimensions (L \times W \times H)	144 mm × 31 mm × 134 mm	
Environment		
Operating Temperature	-25 ~ +75°C	
Storage Temperature	-40 ~ +85°C	
Humidity	10 ~ 90% RH, Non-condensing	

Model		I-9040P		
Digital Input				
Channels		32		
Sink/Source (NPN/PNP)		Sink/Source		
Input Type		Dry, Wet		
Dry	On Voltage Level	Close to GND		
Contact	Off Voltage Level	Open		
Wet	On Voltage Level	+19 VDC ~ +30 VDC		
Contact	Off Voltage Level	+11 VDC Max.		
Input Impedance		3 KΩ, 0.5W		
Channel-to-channel Isolation		-		
Low Pass Filter				
		1ms/5ms/10ms/20ms/40ms/70ms		
		(by Jumper select) or		
OFF to ON Response	OFF to ON	CPU parameter setting		
		Default Setting is 10ms		
time		1ms/5ms/10ms/20ms/40ms/70ms		
	ON to OFF	(by Jumper select) or		
		CPU parameter setting		
		Default Setting is 10ms		

■ Internal I/O Structure ______ ■ Pin Assignments _____



Wire Connections ___

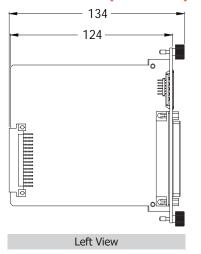
Input Type	ON State Readback as 1	OFF State Readback as 0	
	Close to GND	Open	
Dry Contact	Dry.GND +S5 V To other channels	Dry.GND +S5 V To other Dix channels	

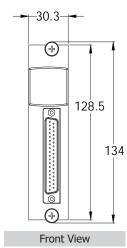
Input Type	ON State Readback as 1	OFF State Readback as 0
Wet Contact (Sink)	DIX R To other channels	No DIX R To other DI.COM channels
Wet Contact (Source)	DIX R To other channels	DIX R To other channels



Pin Assignment	Te	erminal No	o.	Pin Assignment
DI.COM	19		37	DI.COM
Dry.GND	18		36	Dry.GND
Dry.GND	17		35	DI31
DI15	16		34	DI31
DI14	15		33	DI30
DI13	14	• •	32	DI29
DI12	13	•		
DI11	12	•	31	DI27
DI10	11	•	30	DI26
DI9	10	•	29	DI25
DI8	09	•	28	DI24
DI7	08	•	27	DI23
DI6	07	•	26	DI22
DI5	06	•	25	DI21
DI4	05	•	24	DI20
DI3	04		23	DI19
DI2	03		22	DI18
DI2	02		21	DI17
DI0	01		20	DI16
				-pin Male b Connector

■ Dimensions (Units: mm) _





Ordering Information -

I-9040P CR

32-channel Isolated Digital Input Module with Low Pass Filter (RoHS)

Accessories _

DN-37-A	I/O Connector Block with DIN-Rail Mounting and 37-pin D-sub Connector (pitch: 5.08 mm) Includeing One CA-3710A (37-pin Male-Female D-sub Cable, 1.0M)
DN-37-381-A	I/O Connector Block with DIN-Rail Mounting and 37-pin D-sub Connector (pitch: 3.81 mm) Including One CA- 3710A (37-pin Male-Female D-sub Cable, 1.0M)
CA-3710AM	DN-37 Male-Female D-sub cable 1M (Moding) Cable for Daughter Board (45°)

CA-3720AM	DN-37 Male-Female D-sub cable 2M (Moding) Cable for Daughter Board (45°)
CA-3730AM	DN-37 Male-Female D-sub cable 3M (Moding) Cable for Daughter Board (45°)
CA-3750AM	DN-37 Male-Female D-sub cable 5M (Moding) Cable for Daughter Board (45°)
CA-37100AM	DN-37 Male-Female D-sub cable 10M (Moding) Cable for Daughter Board (45°)

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