



I-9041P

32-channel Isolated Digital Output Module

<b>™</b> Features			
■ 32-channel Open Collector Output			
■ Sink-type Digital Output			
Channel Status LED Indicators			
■ Up to 60 VDC Overvoltage Protection			
Overload Protection			
Short-circuit Protection			
4 kV ESD Protection			
Optional Daughter Boards for Easy Field Wiring			
■ Wide Operating Temperature Range: -25 to +75 °C			
CE FE ROHS			

### **Introduction**

The I-9041P is a 32-channel sink-type digital output module. Each output channel is compatible with +10 VDC to +50 VDC signals, based on the external power supply. 32 LED indicators are provided to display the on/off status of every channel. Short circuit protection, overvoltage protection and overload protection are also included.

The I-9041P features 3750 VDC field to logic isolation and 4 kV ESD protection, but doesn't provide channel-to-channel isolation. It can be paired with a daughterboard, such as the DN-37-381-A for easy wiring, or the DN-8K32R for relay output, to connect to a wide range of industrial switches and devices.

## **■ System Specifications**

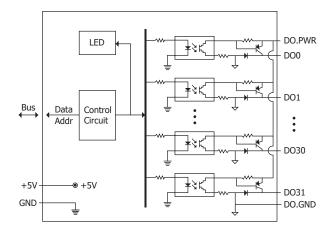
LED Display					
System LED Indicator	1 LED as Power Indicator				
I/O LED Indicator	32 LEDs as Digital Input Indicators				
Isolation					
Intra-module Isolation, Field-to-Logic	3750 VDC				
EMS Protection					
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal ±8 kV Air for Random Point				
Power					
Power Consumption	1.5 W Max.				
Mechanical					
Dimensions (W x L x H)	31 mm x 134 mm x 134 mm				
Environment					
Operating Temperature	-25 ~ +75 °C				
Storage Temperature	-40 ~ +85 °C				
Humidity	10 ~ 90% RH, Non-condensing				

## **■ I/O Specifications**

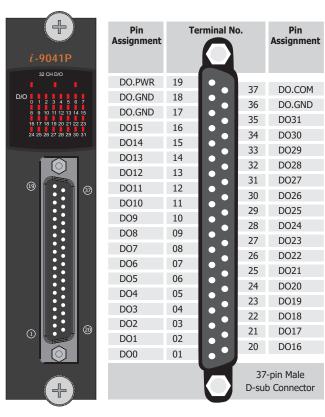
Digital Output				
Channels	32			
Sink/Source (NPN/PNP)	Sink			
Output Type	Isolated Open Collector			
Max Load Current	100 mA/Channel			
Load Voltage	+10 VDC ~ +50 VDC			
Overvoltage Protection	60 VDC			
Overload Protection	1.1 A			
Short-circuit Protection	Yes			

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## **■ Internal I/O Structure**



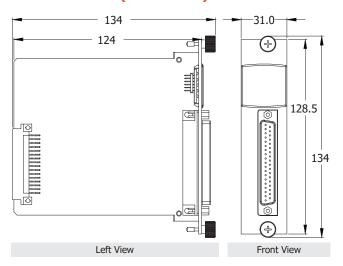
# **■ Pin Assignments**



### Wire Connections

Output Type	ON State LED ON Readback as 1	ON State LED OFF Readback as 0	
Digital Ouput (Drive Relay)	DO.PWR DOX DO.GND	DO.PWR DOX DO.GND	
Digital Ouput (Resistance Load)	DO.PWR DOX DO.GND	DO.PWR DOX DO.GND	

## **■ Dimensions (Units: mm)**



### **■** Ordering Information

I-9041P CR 32-channel Isolated Digital Output Module (RoHS)

#### Accessories

DN-8K32R Including		CA-3710AM	DN-37 Male-Female D-sub cable 1M (Moding) Cable for Daughter Board (45°)		
Suminim)		CA-3720AM	DN-37 Male-Female D-sub cable 2M (Moding) Cable for Daughter Board (45°)		
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)	,		3, 3 ( ,		
	ludeing One CA-3710A	CA-3730AM	DN-37 Male-Female D-sub cable 3M (Moding) Cable for Daughter Board (45°)		
		DN-37 Male-Female D-sub cable 5M			
<b>DN-37-381-A</b> and 37-Includin	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-3750AM	(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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