

I-9041P

32-channel Isolated DOgital Input Module

Features

- 32-channel Open Collector Output
- Sink-type DOgital Output
- Up to 60 VDC Overvoltage Protection
- Overload Protection
- Short-circuit Protection
- Configurable Power-on Value/ Safe Value
- Optional Daughter Boards for Easy Field Wiring

Introduction

The I-9041P is a 32-channel sink-type digital output module, and options are available for configuring both power-on and safe values. 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 Vrms 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

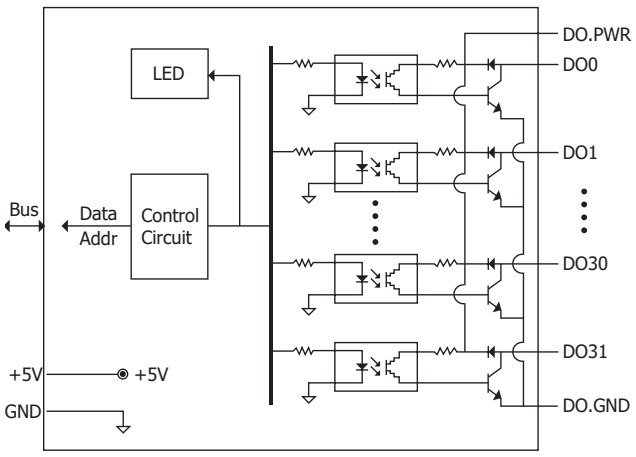
LED Display	
System LED Indicator	1 LED as Power Indicator
I/O LED Indicator	32 LEDs as Digital Input Indicators
Isolation	
Intra-module Isolation, Field-to-Logic	3750 VDC
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal, ±8 kV Air for Random Point
Power	
Power Consumption	1.5 W Max.
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

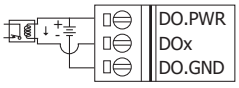
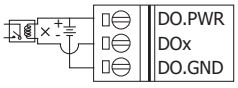
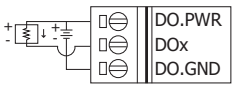
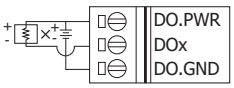
Digital Output	
Channels	32
Sink/Source (NPN/PNP)	Sink/Source
Type	Isolated Open Collector
Max. Load Current	100 mA/Channel
Load Voltage	+10 VDC ~ +50 VDC
Overvoltage Protection	60 VDC
Overload Protection	1.1 A
Short-circuit Protection	Yes
Power on Value	Yes
Safe Value	Yes

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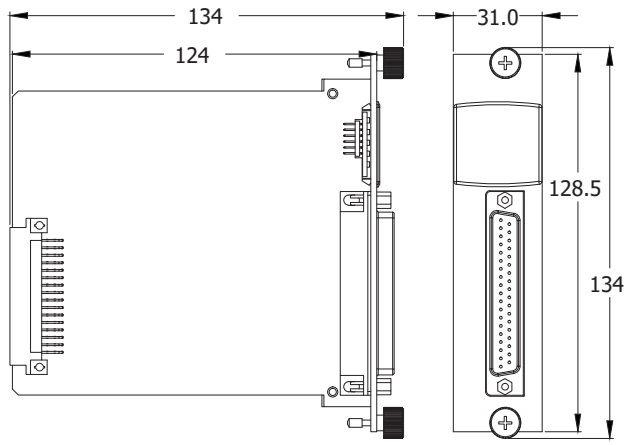
Internal I/O Structure



Wire Connections

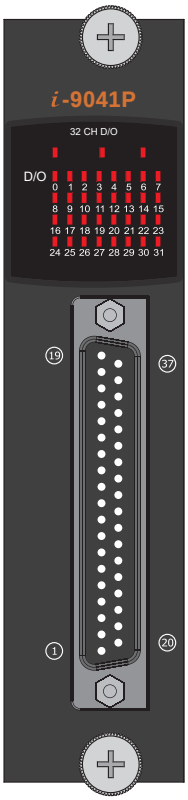
Output Type	ON State Readback as 1	OFF State Readback as 0
Drive Relay		
Resistance Load		

Dimensions (Units: mm)

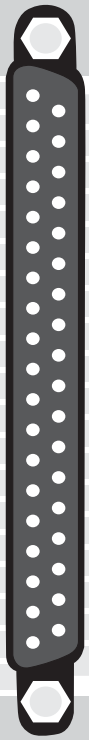


Left View | Front View

Pin Assignments



Pin Assign-ment	Terminal No.		Pin Assign-ment
DO.PWR	19	37	DO.PWR
DO.GND	18	36	DO.GND
DO.GND	17	35	DO31
DO15	16	34	DO30
DO14	15	33	DO29
DO13	14	32	DO28
DO12	13	31	DO27
DO11	12	30	DO26
DO10	11	29	DO25
DO9	10	28	DO24
DO8	09	27	DO23
DO7	08	26	DO22
DO6	07	25	DO21
DO5	06	24	DO20
DO4	05	23	DO19
DO3	04	22	DO18
DO2	03	21	DO17
DO1	02	20	DO16
DO0	01		



37-pin Male D-sub Connector

Accessories

DN-37-A CR



Female DB37 to Screw Terminal Board (Pitch= 5.08 mm) with DON-rail Mounting (RoHS)
Include: CA-3710A (DB37 Male to Female Cable, 90º, 1 M)

DN-37-381-A CR



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

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



DB37 Male to Female Cable, 90º, 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, 45º, 1 M/2 M/3 M/5 M/10 M (RoHS)

Ordering Information

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

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