



I-9054P

8-channel Isolated DI and 8-channel Isolated DO Module

Introduction

The I-9054P offers 8 channels for digital input, catering for both dry and wet contact, with an effective distance for dry contact of up to 500 meters and 8 digital output channels, and options are available for configuring both power-on and safe values, each of which features Photocouple isolation and supports sink-type output using an open collector.

The I-9054P provides 16 LED indicators that can be used to monitor the DIO channel status. 4 kV ESD protection and 3750 VDC intramodule isolation are also provided to enhance noise immunity capabilities in industrial environments.

System Specifications

LED Display	
System LED Indicator	1
D/I LED Indicator	8
D/O LED Indicator	8
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

Features

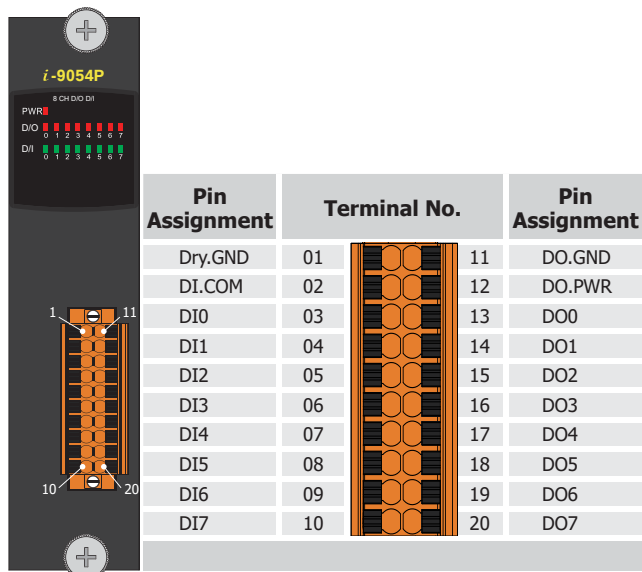
- 8-channel Digital Input
- 8-channel Open Collector Output
- Sink-type Digital Output
- Channel Status LED Indicators
- 4 kV ESD Protection
- Configurable Power-on Value/ Safe Value
- Wide Operating Temperature Range: -25 ~ +75 °C



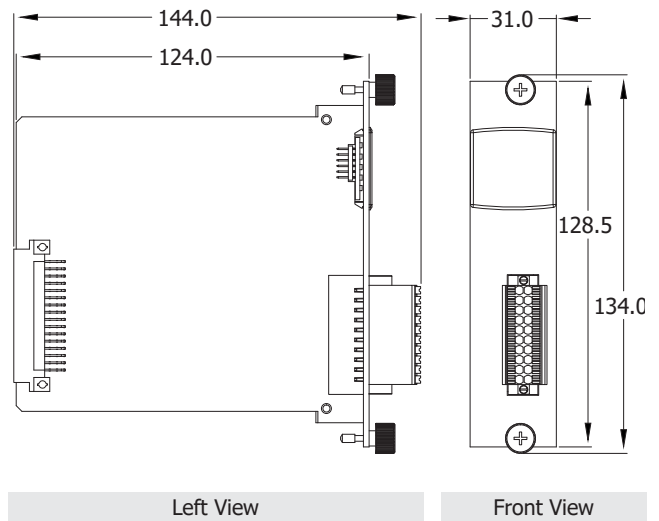
I/O Specifications

Digital Input		
Channels		8
Sink/Source (NPN/PNP)		Sink/Source
Input Type		Dry, Wet
Dry Contact	On Voltage Level	Close to GND
	Off Voltage Level	Open
Wet Contact	On Voltage Level	+19 VDC ~ +30 VDC
	Off Voltage Level	+11 VDC Max.
Input Impedance		3 KΩ, 1W
Effective Distance		500 m Max.
Low Pass Filter		1/5/10/20/40/70 ms (by Jumper select) or CPU parameter setting Default Setting is Disable
Digital Output		
Channels		8
Sink/Source (NPN/PNP)		Sink
Output Type		Isolated Open Collector
Max. Load Current		500 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

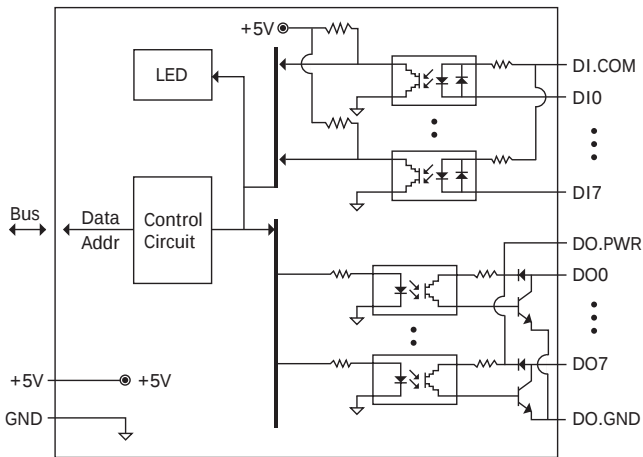
Pin Assignments



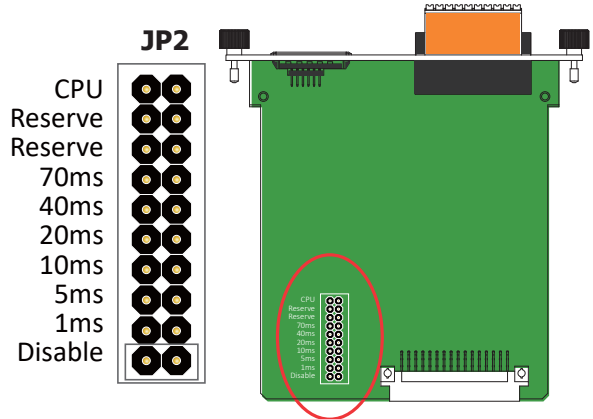
Dimensions (Units: mm)



Internal I/O Structure

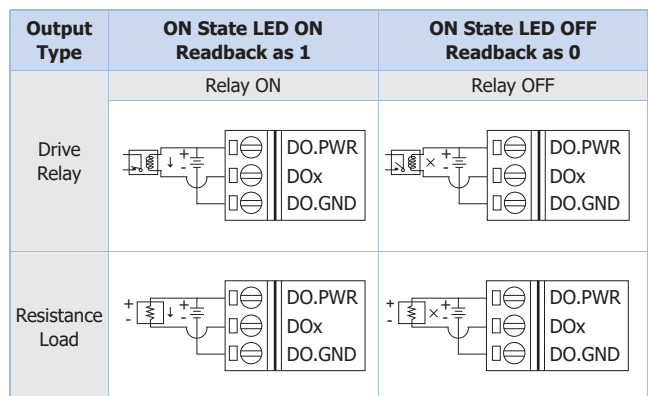
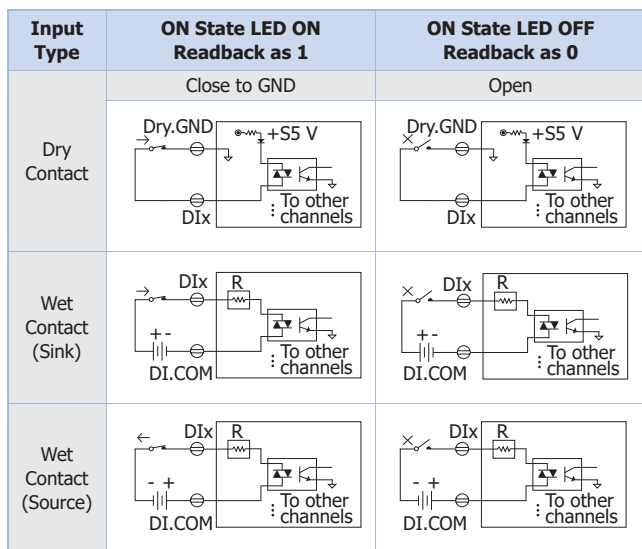


Jumpers for Low Pass Filter Selection



Default Setting is **Disable**

Wire Connections



Ordering Information

I-9054P CR	8-channel Isolated DI and 8-channel Isolated DO Module (RoHS)
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