I-9053P
16-channel Isolated Digital Input Module

Features

- 16-channel Digital Input
- Channel Status LED Indicators
- Compatible with 24 V Levels
- Long Distance Measurement
- Dry and Wet Contact, Selectable via Wire Connections
- 3750 Vrms Intra-module Isolation
- Wide Operating Temperature Range : -25 ~ +75°C

Introduction

The I-9053P offers 16 channels for digital input, catering for both dry and wet contact, with an effective distance for dry contact of up to 500 meters. All channels feature photocouple isolation.

The I-9053P provides 16 LED indicators that can be used to monitor the DI channel status. 4 kV ESD protection and 3750 Vrms intra-module isolation are also provided to enhance noise immunity capabilities in industrial environments.

System Specifications

Model	I-9053P
LED Display	
System LED Indictors	1 LED as Power Indicator
I/O LED Indicator	16 LEDs as Digital Input Indicators
Isolation	
Intra-module Isolation, Field to logic	3750 Vrms
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 (L × W × H)	144 mm × 31 mm × 134 mm
Environment	
Operating Temperature	-25 ~ +75°C
Storage Temperature	-40 ~ +85°C
Humidity	10 ~ 90% RH, Non-condensing

I/O Specifications

| Model		I-9053P
Digital Input		
Channels		16
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 V_{DC} ~ +30 V_{DC}
	Off Voltage Level	+11 V_{DC} Max.
Input Impedance		3 KΩ, 1W
Effective Distance for Dry Contact		500 m Max.
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 10ms
	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 10ms

Internal I/O Structure
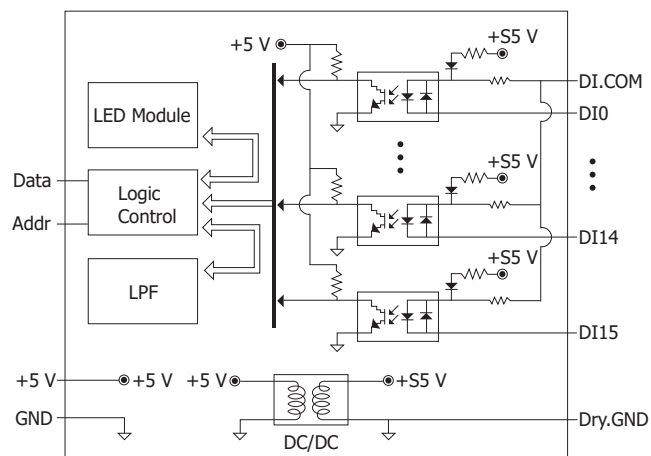
Pin Assignments
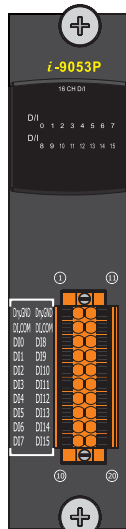
Pin Assignment	Terminal No.			Pin Assignment
Dry.GND	01		11	Dry.GND
DI.COM	02		12	DI.COM
DI0	03		13	DI8
DI1	04		14	DI9
DI2	05		15	DI10
DI3	06		16	DI11
DI4	07		17	DI12
DI5	08		18	DI13
DI6	09		19	DI14
DI7	10		20	DI15

Dimensions (Units: mm)

Left View	Front View
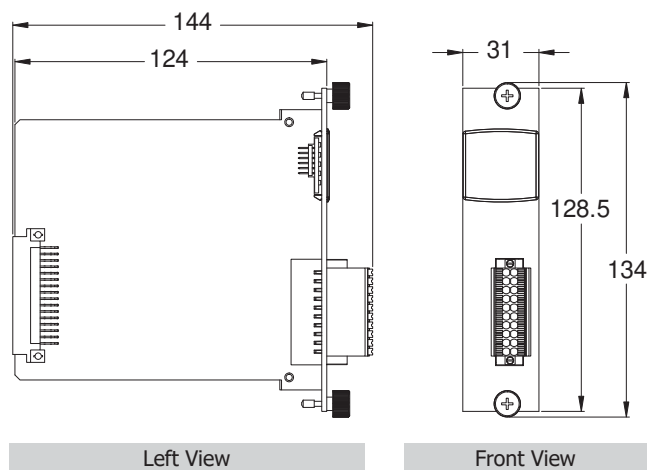
Wire Connections

Input Type	ON State Readback as 1	OFF State Readback as 0
	Close to GND	Open
Dry Contact		

Input Type	ON State Readback as 1	OFF State Readback as 0
Wet Contact (Sink)		
Wet Contact (Source)		

Ordering Information

I-9053P CR	16-channel Isolated Digital Input Module (RoHS)