



I-8053 I-8053-G

16-ch Isolated DI Module

Features

- 16-channel Digital Inputs
- Wet Contact
- Photocouple Isolation
- 4 kV ESD Protection
- 3750 VDC Intra-module Isolation

Introduction

The I-8053 offer 16 channels for Digital Input, catering for both dry and wet contact, with an effective distance for dry contact of up to 500 meters. The I-8053 provides 16 LED indicators that can be used to monitor the DI channel status. 4 kV ESD protection and 3750 VDC intra-module isolation are also provided to enhance noise immunity capabilities in industrial environments.

System Specifications

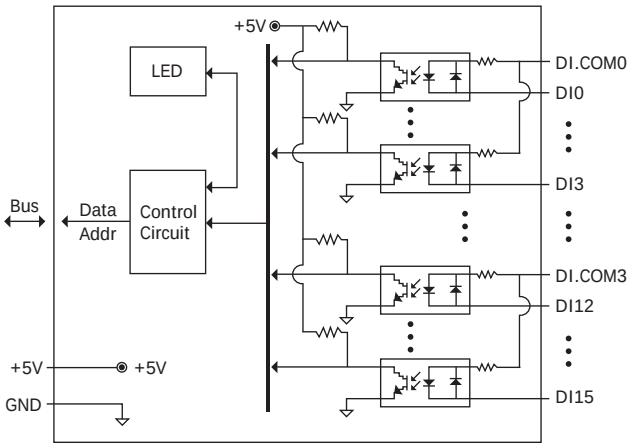
LED Indicators/Display	
System LED Indictors	1 LED as Power Indicator
I/O LED Indicators	16 LEDs as Digital Input Indicators
Isolation	
Intra-module Isolation, Field-to-Logic	3750 VDC
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal
Power	
Power Consumption	0.4 W Max.
Mechanical	
Dimensions (W x L x H)	31 mm x 116 mm x 88 mm
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +85 °C
Humidity	10 ~ 90% RH, Non-condensing

I/O Specifications

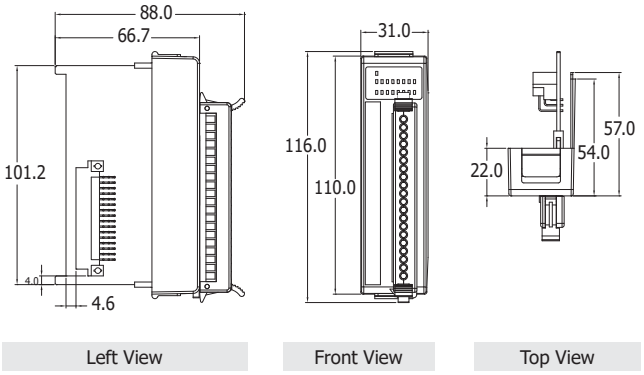
Digital Input	
Channels	16
Type	Wet Contact
Sink/Source (NPN/PNP)	Sink, Source
ON Voltage Level	+3.5 ~ +30 VDC
Off Voltage Level	+1 VDC max.
Input Impedance	3 kΩ, 0.5 W

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Internal I/O Structure

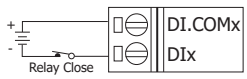
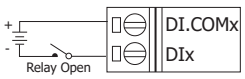
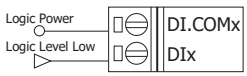
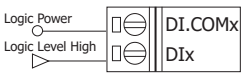
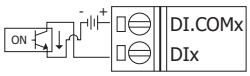
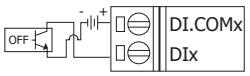
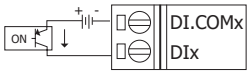
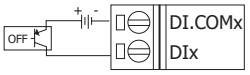


Dimensions (Units: mm)

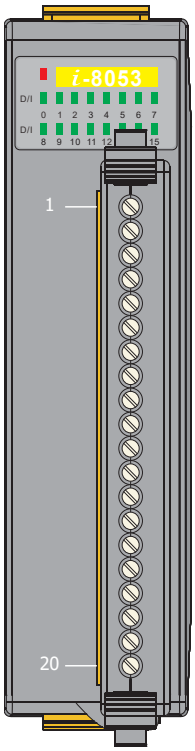


Left View | Front View | Top View

Wire Connections

Input Type	ON State LED ON Readback as 0	OFF State LED OFF Readback as 1
Relay Contact	Relay ON	Relay OFF
		
TTL/CMOS Logic	Voltage > 10 V	Voltage < 4 V
		
NPN Output	Open Collector ON	Open Collector OFF
		
PNP Output	Open Collector ON	Open Collector OFF
		

Pin Assignments



Terminal No.	Pin Assignment
01	DI.COM0
02	DI0
03	DI1
04	DI2
05	DI3
06	DI.COM1
07	DI4
08	DI5
09	DI6
10	DI7
11	DI.COM2
12	DI8
13	DI9
14	DI10
15	IN11
16	DI.COM3
17	DI12
18	DI13
19	DI14
20	DI15

Ordering Information

I-8053 CR	16-ch Isolated DI (Wet, 10 ~ 30 VDC) Module (Blue Cover) (RoHS)
I-8053-G CR	16-ch Isolated DI (Wet, 10 ~ 30 VDC) Module (Gray Cover) (RoHS)

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