



I-8053W

8-channel Isolated Digital Input Module

Introduction

The I-8053W offers 16 channels for digital input, each of which features photocouple isolation. Either sink- or source-type input can be selected via wire connections. 16 LED indicators for monitoring DI channel status are provided, together with 4 kV ESD protection and 3750 Vrms intra-module isolation for increasing noise immunity in industrial environments.

Features

- 16 Sink- or Source-type Digital Inputs
- Photocouple Isolation
- Channel Status LED Indicators
- 4 kV ESD Protection
- 3750 Vrms Intra-Module Isolation
- Wide Range of Operating Temperature: -25 to +75°C



Applications

- Temperature Measurement
- Environment Monitoring
- Tunnel Monitoring
- Building Monitoring

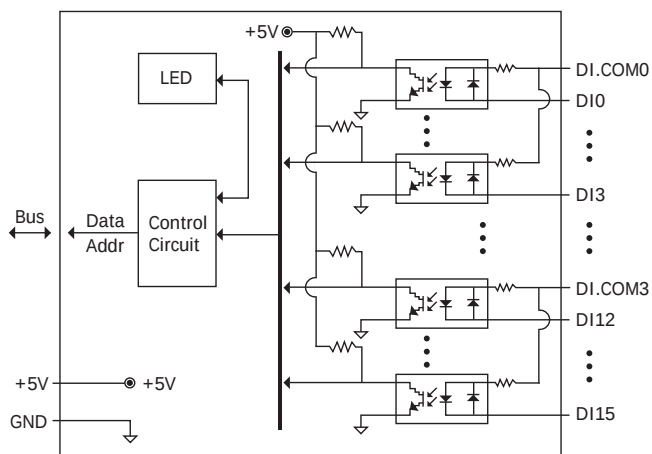
System Specifications

Model	I-8053W
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 Vrms
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal
Power	
Power Consumption	0.08 A @ 5 V = 0.4 W, ±5 % For Hardware version 1.2
Mechanical	
Dimensions (L x W x H)	102 mm x 30 mm x 115 mm
Environment	
Operating Temperature	-25 to +75°C
Storage Temperature	-30 to +80°C
Humidity	10 to 90% RH, Non-condensing

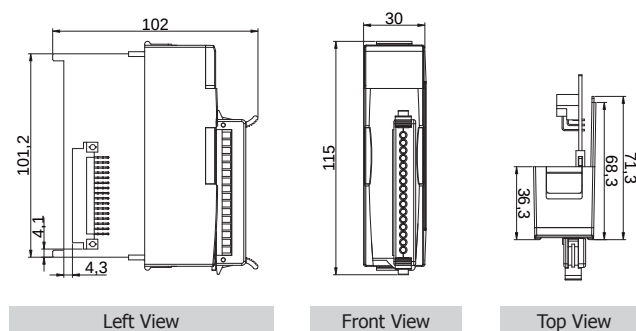
I/O Specifications

Model	I-8053W
Digital Input	
Channels	16
Input Type	Four Commons for All Inputs
Sink/Source (NPN/PNP)	Sink, Source
ON Voltage Level	+10 V ~ +30 V
OFF Voltage Level	+4 V Max.
Input Impedance	3 KΩ, 0.5 W

Internal I/O Structure



Dimensions (Units: mm)



Wire Connections

Input Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
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-8053W-G CR	16-channel Isolated Digital Input Module (Gray Cover) (RoHS)
--------------	--