

I-8046W

16-Channel Isolated Digital Input Module

Features

- 16-channel Digital Input
- Source-type Digital Input
- 3750 VDC Intra-module Isolation
- Long-distance Measurement
- 4 kV ESD Protection
- Wide Operating Temperature Range: -25 ~ +75 °C

Introduction

The I-8046W is a 16-channel Digital Input Module that can be used for long distance measurement, with an effective distance of up to 500 meters for Dry Contact connections. 16 LED indicators are provided for monitoring the status of the Digital Input channels. In addition to Photocouple-isolation, ±4 kV ESD protection are provided as well as 3750 VDC intra-module isolation to enhance noise immunity capabilities in industrial environments.

System Specifications

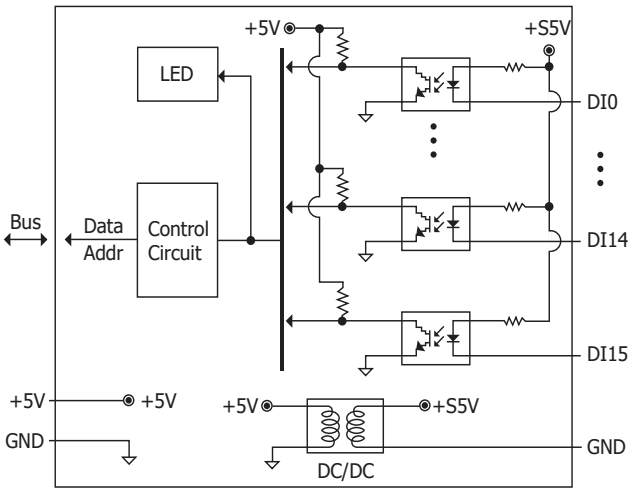
LED Indicators	
System LED Indicator	1 LED as Power Indicator
I/O LED Indicator	16 LEDs as I/O Status Indicator
Isolation	
Intra-module Isolation, Field-to-Logic	3750 VDC
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal
Power	
Consumption	1.3 W Max
Mechanical	
Dimensions (W x L x H)	30 mm x 102 mm x 115 mm
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-30 ~ +85 °C
Humidity	5 ~ 95 % RH, Non-condensing

I/O Specifications

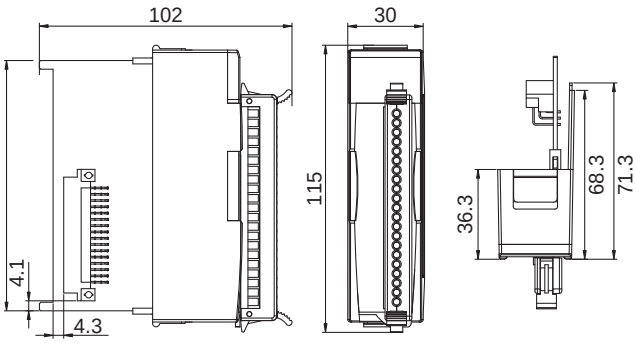
Digital Input	
Channels	8
Type	Dry Contact
Sink/Source (NPN/PNP)	Source
ON Voltage Level	Connect to GND
OFF Voltage Level	Open
Effective Distance	500 m Max.

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Internal I/O Structure

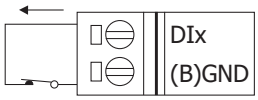
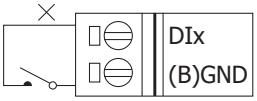


Dimensions (Units: mm)

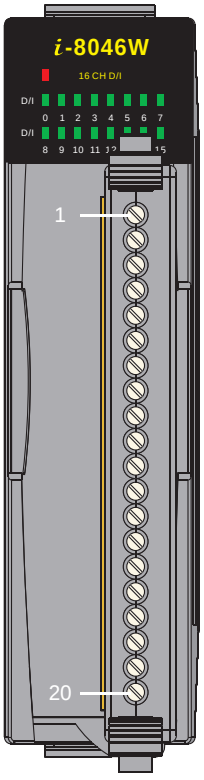


Left View | Front View | Top View

Wire Connections

Digital Input/ Couunter	ON State Readback as 1	ON State Readback as 0
	Close to GND (+1 VDC Max.)	OPEN (+4 V ~ +30 VDC)
Dry Contact		

Pin Assignments



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

Ordering Information

I-8046W-G CR	16-Channel Isolated Digital Input Module (RoHS)

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