

# I-8052W

8-Channel Isolated Digital Input Module

## Features

- 8-Channel Isolated Digital Input
- Sink or Source-type Digital Input
- 5000 VDC Intra-module Isolation
- Each digital channel has its own status LED
- 4 kV ESD Protection
- Wide Operating Temperature Range: -25 ~ +75 °C

## Introduction

The I-8052W module offers 8 fully independent differential Digital Input channels that feature 2 kV channel-to-channel Photocouple isolation. In addition, either sink- or source-type input can be selected via the wire connections. The I-8052W also includes 8 LED indicators that can be used to monitor the status of the Digital Input channels.

## System Specifications

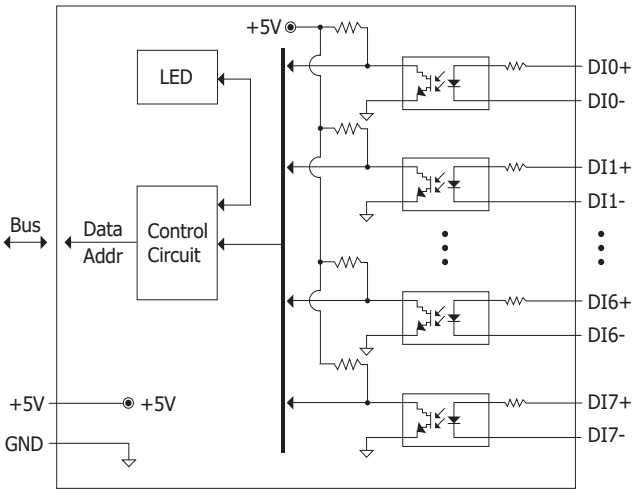
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|---|---|
| **LED Indicators** | |
| System LED Indicator | 1 LED as Power Indicator |
| I/O LED Indicator | 8 LEDs as I/O Status Indicator |
| **Isolation** | |
| Intra-module Isolation, Field-to-Logic | 5000 VDC |
| **EMS Protection** | |
| ESD (IEC 61000-4-2) | ±4 kV Contact for each Terminal |
| **Power** | |
| Consumption | 0.3 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

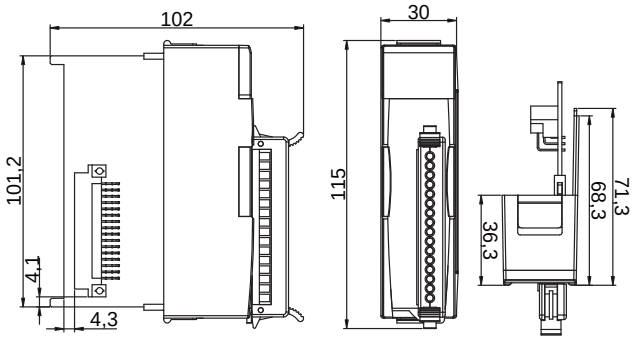
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|---|---|
| **Digital Input** | |
| Channels | 8, Differential |
| Type | Wet Contact |
| Sink/Source (NPN/PNP) | Sink/Source |
| ON Voltage Level | +10 ~ +30 V |
| OFF Voltage Level | +4 V Max. |
| Input Impedance | 3 kΩ, 0.25 W |

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## Internal I/O Structure

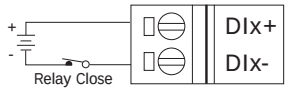
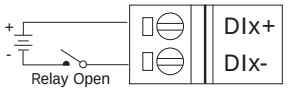
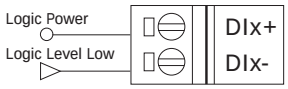
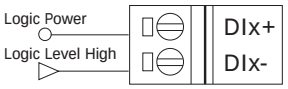
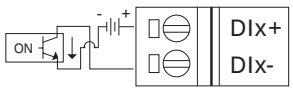
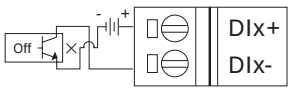



## Dimensions (Units: mm)

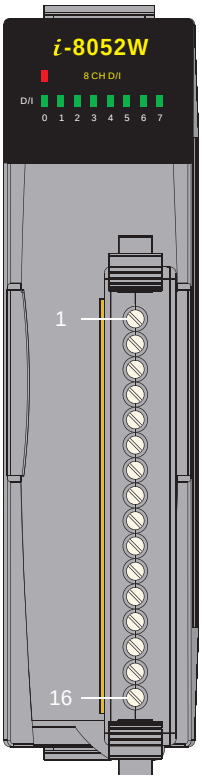



Left View | Front View | Top View

## Wire Connections

| Input Type | ON State Readback as 1 | OFF State Readback as 0 |
|---|---|---|
| Relay Contact | **Relay ON** | **Relay OFF** |
| |   |   |
| TTL/CMOS Logic | **Voltage > 10 V** | **Voltage < 4 V** |
| |   |   |
| Open Collector | **Open Collector ON** | **Open Collector OFF** |
| |   |   |

## Pin Assignments




| Terminal No. | Pin Assignment |
|---|---|
| 01 | DI0+ |
| 02 | DI0- |
| 03 | DI1+ |
| 04 | DI1- |
| 05 | DI2+ |
| 06 | DI2- |
| 07 | DI3+ |
| 08 | DI3- |
| 09 | DI4+ |
| 10 | DI4- |
| 11 | DI5+ |
| 12 | DI5- |
| 13 | DI6+ |
| 14 | DI6- |
| 15 | DI7+ |
| 16 | DI7- |

## Ordering Information

| | |
|---|---|
| **I-8052W-G CR** | 8-Channel Isolated Digital Input Module (RoHS) |

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