



I-8054 I-8054-G

8-ch Isolated Digital Input and
8-ch Isolated Digital Output Module

Features

- 8-ch Isolated Digital Input and 8-ch Isolated Digital Output
- Sink-type Digital Output Channels with Overload Protection
- 4 kV ESD Protection
- 3750 VDC Intra-module Isolation

Introduction

The I-8054 module offers 8 Isolated Digital Input channels and 8 Isolated Digital Output channels. The I-8054 supports sink-type output. The I-8054 includes 16 LED indicators that can be used to monitor the status of the Digital Input and Digital Output channels. 4 kV ESD protection and 3750 VDC intra-module isolation are provided as standard.

System Specifications

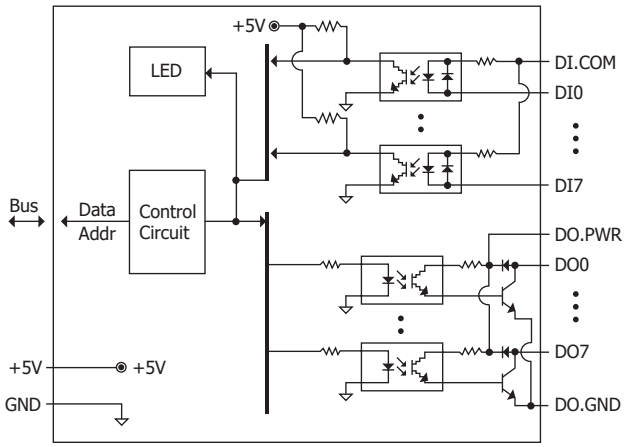
LED Indicators/Display	
System LED Indictors	1 LED as Power Indicator
I/O LED Indicators	16 LEDs as Digital Input & Digital Output Indicators
Isolation	
Intra-module Isolation, Field-to-Logic	3750 VDC
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal
Power	
Power Consumption	0.55 W 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

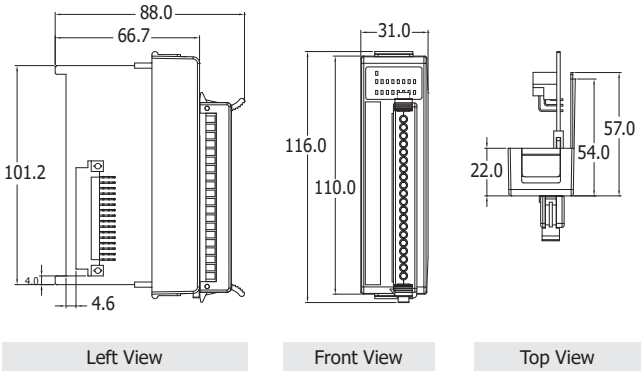
Digital Input	
Channels	8
Type	Wet Contact
Sink/Source	Sink, Source
ON Voltage Level	+3.5 ~ +30 VDC
OFF Voltage Level	+1 VDC max.
Input Impedance	10 kΩ, 0.5 W
Digital Output	
Channels	8
Type	Isolated Open Collector
Sink/Source (NPN/PNP)	Sink
Load Voltage	+5 ~ +50 VDC
Max. Load Current	700 mA/Channel

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Internal I/O Structure

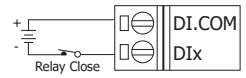
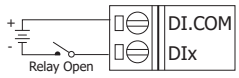
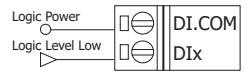
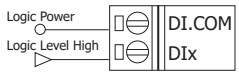
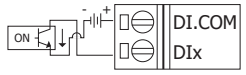
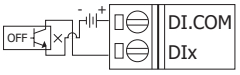
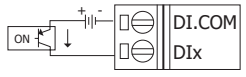
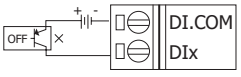


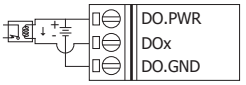
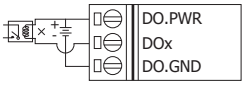
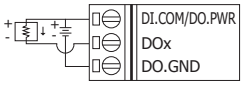
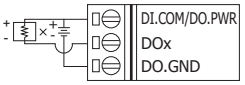
Dimensions (Units: mm)



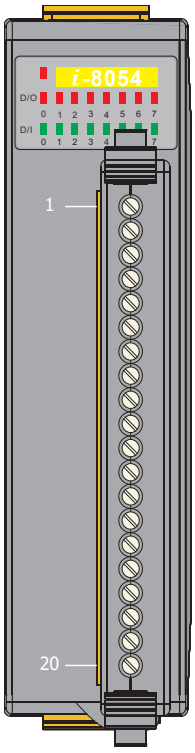
Left View | Front View | Top View

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
		

Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
Drive Relay	Relay ON	Relay OFF
		
Resistance Load		
		

Pin Assignments



Terminal No.	Pin Assignment
01	DI.COM
02	DI0
03	DI1
04	DI2
05	DI3
06	DI4
07	DI5
08	DI6
09	DI7
10	DO0
11	DO1
12	DO2
13	DO3
14	DO4
15	DO5
16	DO6
17	DO7
18	DO.GND
19	DO.GND
20	DO.PWR

Ordering Information

I-8054 CR	8-ch Isolated Digital Input and 8-ch Isolated Digital Output Module (Blue Cover) (RoHS)
I-8054-G CR	8-ch Isolated Digital Input and 8-ch Isolated Digital Output Module (Gray Cover) (RoHS)

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