



I-8040 I-8040-G

32-ch Isolated DI Module

Features

- Sink or Source Type Digital Input
- Photocouple-isolation protection
- Optional Daughter board connectivity
- 3750 VDC Intra-module Isolation

Introduction

The I-8040 offer 32 channels for Digital Input, each of which features Photocouple-isolation. Either Sink Type or Source Type Input can be selected via wire connections. All channels ±4 kV ESD protection and 3750 VDC intra-module isolation. Paired with a daughter board such as the DN-37-381-A CR, wiring is easier than ever.



I-8040, I-8041, I-8042, I-87040, I-87041 with DN-37-381-A & DB37 Male to Female Cable (Optional)



I-8040, I-8041, I-8042, I-87040, I-87041 with DN-37-A & DB37 Male to Female Cable (Optional)

System Specifications

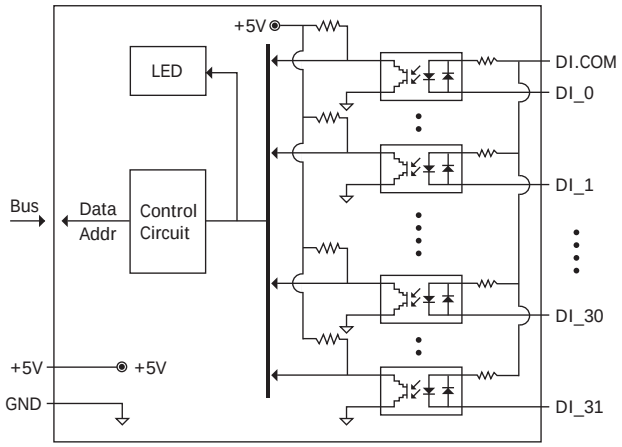
LED Indicators/Display	
System LED Indicator	1 LED as Power Indicator
I/O LED Indicator	32 LEDs as Digital Input Indicators
Isolation	
Intra-module Isolation, Field-to-Logic	3750 VDC
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal
Power	
Power Consumption	0.65 W max.
Mechanical	
Dimensions (W x L x H)	31 mm x 114 mm x 66 mm
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +85 °C
Humidity	10 ~ 90% RH, Non-condensing

I/O Specifications

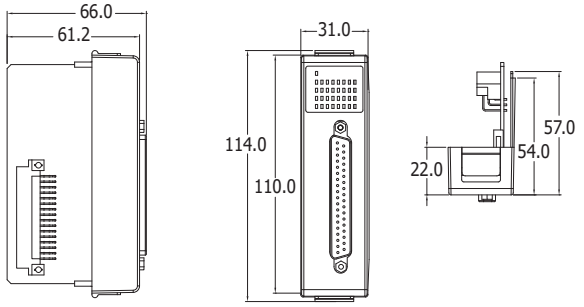
DC Digital Input	
Channels	32
Type	Wet Contact
Sink/Source (NPN/PNP)	Sink, Source
ON Voltage Level	+10 ~ +30 VDC
OFF Voltage Level	+4 VDC Max.
Input Impedance	3 kΩ, 0.33W

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Internal I/O Structure

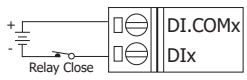
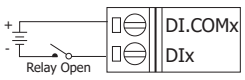
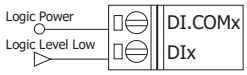
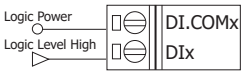
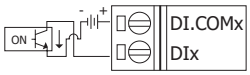
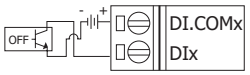
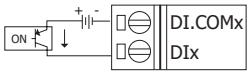
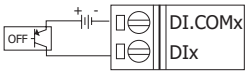


Dimensions (Units: mm)

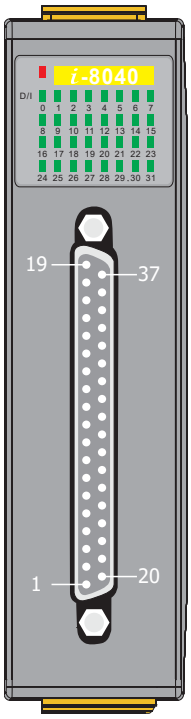


Left View | Front View | Top View

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 > 3.5 V	Voltage < 1 V
		
NPN Output	Open Collector ON	Open Collector OFF
		
PNP Output	Open Collector ON	Open Collector OFF
		

Pin Assignments



Pin Assignment	Terminal No.	Pin Assignment
DI.COM	19	
NC	18	37 DI.COM
NC	17	36 NC
DI_15	16	35 DI_31
DI_14	15	34 DI_30
DI_13	14	33 DI_29
DI_12	13	32 DI_28
DI_11	12	31 DI_27
DI_10	11	30 DI_26
DI_9	10	29 DI_25
DI_8	09	28 DI_24
DI_7	08	27 DI_23
DI_6	07	26 DI_22
DI_5	06	25 DI_21
DI_4	05	24 DI_20
DI_3	04	23 DI_19
DI_2	03	22 DI_18
DI_1	02	21 DI_17
DI_0	01	20 DI_16

37-pin Male D-Sub Connector

Ordering Information

I-8040 CR	32-ch Isolated DI (Wet, 10 ~ 30 VDC) Module (Blue Cover) (RoHS) Includes CA-4002F (DB37 connector Female with plastic cover)
I-8040-G CR	32-ch Isolated DI (Wet, 10 ~ 30 VDC) Module (Gray Cover) (RoHS) Includes CA-4002F (DB37 connector Female with plastic cover)

Accessories

	DN-37-A CR	Female DB37 to Screw Terminal Board (Pitch= 5.08 mm) with DIN-rail Mounting (RoHS) Include: CA-3710A (DB37 Male to Female Cable, 90º, 1 M)
	DN-37-381-A CR	Female DB37 to Screw Terminal Board (Pitch=3.81 mm) with DIN-rail Mounting (RoHS) Include: CA-3710A (DB37 Male to Female Cable, 90º, 1 M)
	CA-3705A CR CA-3710A CR CA-3715A CR	DB37 Male to Female Cable, 90º, 0.5 M/1 M/1.5 M (RoHS)
	CA-3710AM CR CA-3720AM CR CA-3730AM CR CA-3750AM CR CA-37100AM CR	DB37 Male to Female, with Molded Cable, 45º, 1 M/2 M/3 M/5 M/10 M (RoHS)

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