







I-7063D

8-channel Isolated Digital Input and 3-channel Relay Output Module







M-7065(D)

4-channel Isolated Digital Input and 5-channel Relay Output Module

₱ Features

- I-7063(D)
 - □ 8 Digital Input channels and 3 Relay Output channels
- I-7065(D) and M-7065(D)
 - ☐ 4 Digital Input channels and 5 Relay Output channels
- Form A Power Relay Output
- Sink- and Source-type for Digital Input
- Digital Input Channels can be used as 16-bit Counters
- Configurable Power-on Value Settings
- Configurable Safe Value Settings
- Dual Watchdog
- Wide Operating Temperature Range: -25 to +75°C









Introduction

The I-7063 module provides 8 digital input channels and 3 Form A relay output channels, and the 7065 series provides 4 digital input channels and 5 Form A relay output channels. All digital input channels can be used as 16-bit counters. In addition, the digital input channels can be selected either as sink- or source-type via wire connections. The I-7063D provides 11 LED indicators and the I-7065D/M-7065D provides 9 LED indicators that can be used to monitor the status of the digital input and relay output. The M-7065 supports both the Modbus RTU and DCON protocols, which can be configured via software. There are also options for configuring power-on and safe values. 4 kV ESD protection and 3750 VDC intra-module isolation are also provided to enhance noise protection capabilities in industrial environments.

System Specifications

Model	I-7063	I-7065	M-7065
	I-7063D	I-7065D	M7065D
Communication			
Interface	RS-485		
Bias Resistor	No (Usually supplied by the RS-485 Master. Alternatively, add a tM-SG4 or SG-785.)		
Format	(N, 8, 1), (N, 8, 2), (E, 8, 1), (O, 8, 1	l)
Baud Rate	1200 to 115200 bps		
Protocol	DCON		Modbus RTU, DCON
Dual Watchdog	Yes, Module (1.6 S	Seconds), Communi	cation (Programmable)
LED Indicators/Display			
System LED Indicator	Yes, 1 as Power/C	Communication Indi	cator
	-	-	-
I/O LED Indicators	Yes, 11 as Digital Input/ Relay Output Indicators	Yes, 9 as Digital Input/ Relay Output Indicators	Yes, 9 as Digital Input/Relay Output Indicators
7-segment LED Display	-		
Isolation			
Intra-module Isolation, Field-to-Logic	3750 VDC		
EMS Protection			
ECD (IEC 61000 4.3)	±4 kV Contact for each Terminal		
ESD (IEC 61000-4-2)	ESD (IEC 61000-4-2) ±8 kV Air for Random Point		
EFT (IEC 61000-4-4)	±2 kV for Power Line		
Surge (IEC 61000-4-5)	-		
Power			
Reverse Polarity Protection	Reverse Polarity Protection Yes		
Input Range	+10 ~ +30 VDC		
Communication	0.9 W	1.3 W	1.3 W
Consumption	1.4 W	1.8 W	1.8 W
Mechanical			
Dimensions (L x W x H)	123 mm x 72 mm	x 35 mm	
Installation	DIN-Rail or Wall Mounting		
Environment			
Operating Temperature	-25 to +75°C		
Storage Temperature	-40 to +85°C		
Humidity	10 to 95% RH, Non-condensing		

Applications

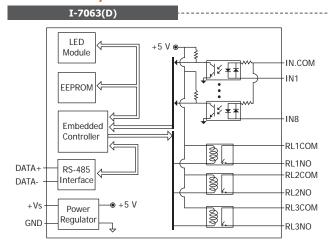
- Building Automation • Factory Automation
- Machine Automation • Remote Maintenance
- Remote Diagnosis
- Testing Equipment

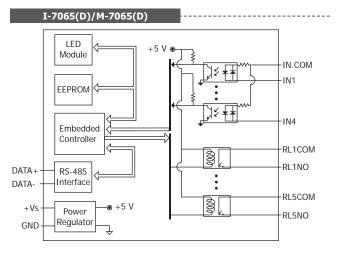
I/O Specifications

Model		I-7063	I-7065	M-7065
		I-7063D	I-7065D	M7065D
Relay Outp	out			
Channels		3	5	
Relay Type		Power Relay		
Contact Rating		5 A @ 250 VAC 5 A @ 30 VDC		
	Min. Contact Load	10 mA @ 5 V		
Form A	Contact Material	Gold-plated Silver Cadmium Alloy		
	Operate Time	6 ms		
	Release Time	3 ms		
	Mechanical Endurance	2×10^7 ops.		
	Electrical Endurance	1×10^5 ops.		
Surge Stren	gth	4000 VDC		
Power-on Value		Yes		
Safe Value		Yes		
Digital Inp	ut/Counter			
Channels		8	4	
Timo	Dry Contact	-		
Туре	Wet Contact	Sink/Source		
Wet Contact	ON Voltage Level	+1 VDC Max.		
Wet Contact	OFF Voltage Level	+4 ~ 30 V _{DC}		
	ON Voltage Level	-		
Dry Contact	OFF Voltage Level	-		
	Effective Distance for Dry Contact	-		
	Max. Count	65535 (16-bit)		
Counters	Max. Input Frequency	100 Hz		
Min. Pulse Width		5 ms		
Input Impedance		3 kΩ		
Channel-to-Channel Isolation		-		
Overvoltage Protection		±35 VDC		

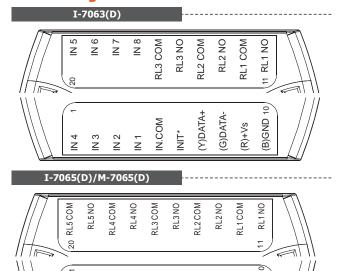
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■ Internal I/O Structure

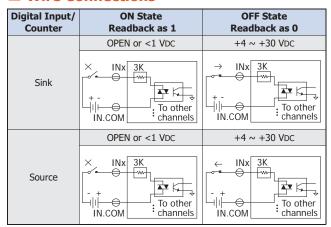




■ Pin Assignments



■ Wire Connections



Output Type	ON State Readback as 1	OFF State Readback as 0	
Relay Output	RLx NO RLx COM	Cload Cload RLx NO RLx COM RLx COM	

Ordering Information

I-7063 CR	8-channel Isolated Digital Input and 3-channel Relay Output Module using the DCON Protocol (Blue Cover) (RoHS)	
I-7063D CR	I-7063 with LED Display (Blue Cover) (ROSH)	
I-7065 CR	4-channel Isolated Digital Input and 5-channel Relay Output Module using the DCON Protocol (Blue Cover) (RoHS)	
I-7065-G CR	4-channel Isolated Digital Input and 5-channel Relay Output Module using the DCON Protocol (Gray Cover) (RoHS)	
I-7065D CR	I-7065 with LED Display (Blue Cover) (ROSH)	
I-7065D-G CR	I-7065-G with LED Display (Gray Cover) (ROSH)	
M-7065-G CR	4-channel Isolated Digital Input and 5-channel Relay Output Module using the DCON and Modbus Protocols (Gray Cover) (RoHS)	
M-7065D-G CR	M-7065-G with LED Display (Gray Cover) (ROSH)	

Accessories

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tM-7520U CR	RS-232 to RS-485 Converter (RoHS)	
tM-7561 CR	USB to RS-485 Converter (RoHS)	
tM-SG4 CR	RS-485 Bias and Termination Resistor Module (RoHS)	

I-7514U CR	4-channel RS-485 Hub (RoHS)
SG-770 CR	7-channel Differential or 14-channel Single-ended Surge Protector (RoHS)
SG-3000 Series	Signal Conditioning Modules for Thermocouple, RTD, DC Voltage, DC Current and Power Input Transformers

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