

I-7061(D)

M-7061(D)

12-channel Power Relay Output Module

I-7067(D)

M-7067(D)

7-channel Signal Relay Output Module

Features

- I-7061(D) and M-7061(D)
 - 12-channel Power Relay Output
 - 4 kV EFT Protection
 - 3 kV Surge Protection
- I-7067(D) and M-7067(D)
 - 7-channel Signal Relay Output
 - 2 kV EFT Protection
- Configurable Power-on Value Settings
- Configurable Safe Value Settings
- Dual Watchdog
- Wide Operating Temperature Range: -25 ~ +75°C



Introduction

The 7061 series provides 12 power relay output channels and the 7067 series provides 7 signal relay output channels. There are options for configuring power-on and safe values. 4 kV ESD protection and 3750 Vdc intra-module isolation are also provided to enhance the noise protection capabilities in industrial environment. The “D” versions of the 7061 series provide 12 LED indicators and the “D” versions of the 7067 series provide 7 LED indicators that can be used to monitor the status of the relay output channels. The “M” versions of each series support both the Modbus RTU and DCON protocols, which can be configured via software. The 7061 series are the ideal solution for high power applications and the 7067 series are the ideal solution for small signal switching.

System Specifications

Model	I-7061	I-7067	M-7061	M-7067
	I-7061D	I-7067D	M-7061D	M-7067D
Communication				
Interface	RS-485			
Format	(N, 8, 1), (N, 8, 2), (E, 8, 1), (O, 8, 1)			
Baud Rate	1200 ~ 115200 bps			
Protocol	DCON		Modbus RTU, DCON	
Dual Watchdog	Yes, Module (1.6 Seconds), Communication (Programmable)			
LED Indicators/Display				
System LED Indicator	Yes, 1 LED as Power/Communication Indicator			
I/O LED Indicators	-	-	-	-
	Yes, 12 LEDs as Digital Input/Relay Output Indicators	Yes, 7 LEDs as Digital Input/Relay Output Indicators	Yes, 12 LEDs as Digital Input/Relay Output Indicators	Yes, 7 LEDs as Digital Input/Relay Output Indicators
7-Segment LED Display	-			
Isolation				
Intra-module Isolation, Field-to-Logic	3750 Vdc	1500 Vdc	3750 Vdc	1500 Vdc
EMS Protection				
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal			
	±8 kV Air for Random Point			
EFT (IEC 61000-4-4)	±4 kV for Power Line	±2 kV for Power Line	±4 kV for Power Line	±2 kV for Power Line
Surge (IEC 61000-4-5)	±3 kV for Power Line	-	±3 kV for Power Line	-
Power				
Reverse Polarity Protection	Yes			
Input Range	10 ~ 30 Vdc			
Consumption	1.7 W	1.5 W	1.7 W	1.5 W
	2.3 W	1.9 W	2.3 W	1.9 W
Mechanical				
Dimensions (W x L x H)	72 mm x 123 mm x 35 mm			
Installation	DIN-Rail or Wall Mounting			
Environment				
Operating Temperature	-25 ~ +75℃			
Storage Temperature	-40 ~ +85℃			
Humidity	10 ~ 95% RH, Non-condensing			

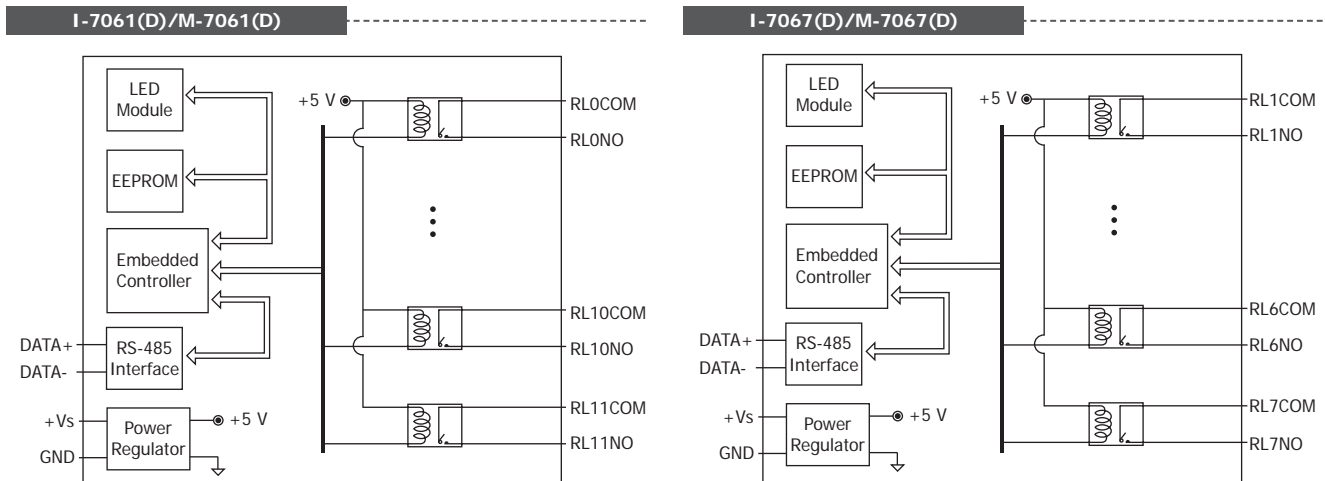
Applications

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

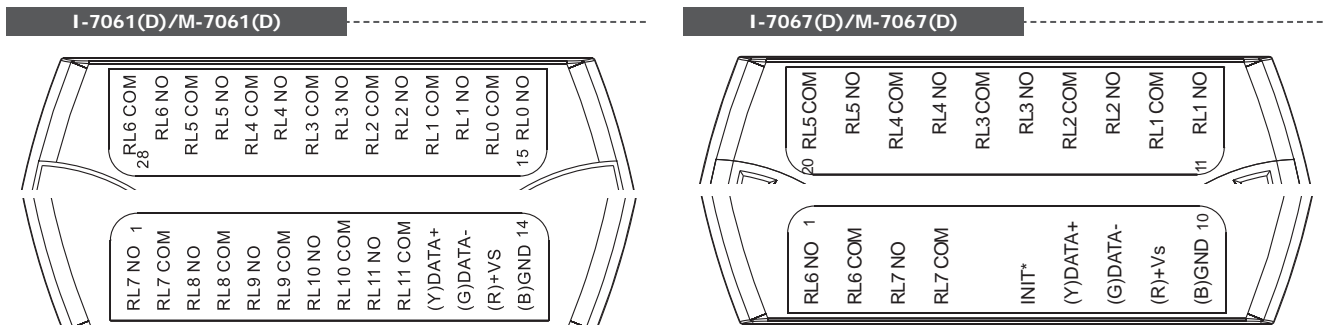
I/O Specifications

Model	I-7061	I-7067	M-7061	M-7067
	I-7061D	I-7067D	M-7061D	M-7067D
Relay Output				
Channels	12 (Form A)	7 (Form A)	12 (Form A)	7 (Form A)
Relay Type	Power Relay	Signal Relay	Power Relay	Signal Relay
Form A Relay	Contact Rating	5 A @ 250 VAC 5 A @ 30 Vdc	0.5 A @ 120 VAC 1 A @ 24 Vdc	5 A @ 250 VAC 5 A @ 30 Vdc
	Min. Contact Load	10 mA @ 5 V	1 mA @ 1 V	10 mA @ 5 V
	Contact Material	Silver TinAlloy	Gold overlay silver palladium	Silver TinAlloy
	Operate Time	10 ms	5 ms	10 ms
	Release Time	5 ms	2 ms	5 ms
	Mechanical Endurance	2 × 10 ⁷ ops.	5 × 10 ⁶ ops.	2 × 10 ⁷ ops.
Electrical Endurance				
10 ⁵ ops.				
Surge Strength	3000 Vdc	1500 Vdc	3000 Vdc	1500 Vdc
Power-on Value	Yes			
Safe Value	Yes			

Internal I/O Structure



Pin Assignments



Wire Connections

Output Type	ON State Readback as 1	OFF State Readback as 0
Relay Output		

Ordering Information

I-7061-G CR	12-channel Power Relay Output Module with DCON Protocol (Gray Cover) (RoHS)
I-7061D-G CR	I-7061 with LED Display (Gray Cover) (RoHS)
M-7061-G CR	12-channel Power Relay Output Module with DCON and Modbus Protocols (Gray Cover) (RoHS)
M-7061D-G CR	M-7061 with LED Display (Gray Cover) (RoHS)
I-7067 CR	7-channel Signal Relay Output Module with DCON Protocol (Blue Cover) (RoHS)
I-7067D CR	I-7067 with LED Display (Blue Cover) (RoHS)
I-7067D-G CR	I-7067 with LED Display (Gray Cover) (RoHS)
M-7067-G CR	7-channel Signal Relay Output Module with DCON and Modbus Protocols (Gray Cover) (RoHS)
M-7067D-G CR	M-7067 with LED Display (Gray Cover) (RoHS)

Accessories

	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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RS-485 Remote I/O Modules

I-7061(D)/M-7061(D)/I-7067(D)/M-7067(D)