

M-7068(D) M-7069(D) 4-channel Form A Relay Output and 4-channel Form C Relay Output Module

Introduction _

RS-485 Remote I/O Modules

The M-7068 provides 4 Form A signal relay output channels and 4 Form C signal relay output channels, while the M-7069 provides 4 Form A power relay output channels and 4 Form C power relay output channels. Both include 8 LED indicators that can be used to monitor the relay output status, and options are provided that allow power-on and safe digital output values to be configured. 4 kV ESD, 4 kV EFT and 3 kV surge protection are also provided to enhance noise protection capabilities in industrial environments. The M-7068 is the ideal solution for small signal switching, while the M-7069 is the ideal solution for high power applications.

System Specifications .

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Model	M-7068	M-7068D	M-7069	M-7069D
Communication				
Interface	RS-485			
Format	(N, 8, 1), (N, 8, 2), (E, 8, 1), (O, 8, 1)			
Baud Rate	1200 ~ 115200 bps			
Protocol	Modbus RTU, DCON			
Dual Watchdog	Yes, Module (1.6 Seconds), Communication (Programmable)			
LED Indicators/Display				
System LED Indicator	Yes, 1 LED as	Power/Commu	unication Indica	tor
I/O LED Indicators	-	Yes, 8 LEDs as Relay Output Indicators	-	Yes,8 LEDs as Relay Output Indicators
7-Segment LED Display	-			
Isolation				
Intra-module Isolation, Field-to-Logic	2000 Vdc		3750 VDC	
EMS Protection				
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal			
235 (120 01000 4 2)	±8 kV Air for Random Point			
EFT (IEC 61000-4-4)	±4 kV for 8 Relay and Power Line			
0 (150 (1000 1.5)	±2 kV for RS-485 Port Line			
Surge (IEC 61000-4-5)	±3 kV for Pov	ver		
Power				
Reverse Polarity Protection	Yes			
Input Range	10 ~ 30 VDC			
Consumption	1.6 W (Max.)	2.0 W (Max.)	2.1 W (Max.)	2.5 W (Max.)
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°C			
Storage Temperature	-40 ~ +85°C			
Humidity	10 ~ 95% RH, Non-condensing			

4 Form A and 4 Form C Signal Relay Output 2000 VDC Intra-module Isolation M-7069(D) □ 4 Form A and 4 Form C Power Relay Output □ 3750 VDC Intra-module Isolation Dual Watchdog 4 kV ESD Protection

- Configurable Power-on Value Settings
- Configurable Safe Value Settings
- Wide Operating Temperature Range: -25 ~ +75°C



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

I/O Specifications _

Model		M-7068 M-7068D	M-7069 M-7069D	
Relay O	utput			
Channels		8 (Form A \times 4, Form C \times 4)		
Relay Type		Signal Relay	Power Relay	
Form A	Contact Rating	2 A @ 30 VDC 0.24 A @ 220 VDC 0.25 A @ 250 VAC	6 A @ 35 VDC 6 A @ 240 VAC	
	Min. Contact Load	10 mA @ 20 mV	100 mA @ ≧ 12 V	
	Contact Material	Silver Nickel, Gold-covered	Silver Cadmium Alloy	
	Operate Time	3 ms (typical)	5 ms (typical)	
	Release Time	4 ms (typical)	1 ms (typical)	
	Mechanical Endurance	10 ⁸ ops	30 X 10 ⁶ ops	
	Electrical Endurance	2 X 10 ⁵ ops	1 X 10 ⁵ ops	
	Contact Rating	2 A @ 30 VDC 0.24 A @ 220 VDC 0.25 A @ 250 VAC	5 A @ 30 VDC 5 A @ 250 VAC	
	Min. Contact Load	10 mA @ 20 mV	10 mA @ ≧ 12 V	
Form C	Contact Material	Silver Nickel, Gold-covered	Silver Nickel Alloy	
	Operate Time	3 ms (typical)	5 ms (typical)	
	Release Time	4 ms (typical)	2 ms (typical)	
	Mechanical Endurance	10 ⁸ ops	15 X 106 ops	
	Electrical Endurance	2 X 10 ⁵ ops	1 X 10 ⁵ ops	
Surge Strength		2000 VDC	4000 VDC	
Power-on Value		Yes		
Safe Value		Yes		

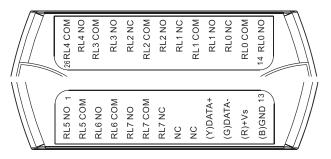
SCADA

Telemetría

PLCs

+5 V 🔍 LED - RLO NC - RLO COM - RLO NO Module <ġ EEPROM 4 -RL2 NC -RL2 COM -RL2 NO 3 Embedded RL3 COM 3 Controller RL3 NO : : DATA+ RS-485 RL6 COM 4 600 Interface DATA-RL6 NO -RL7 NC -RL7 COM -RL7 NO +5 V +Vs 3 Power -Regulator GND Ĵ

Pin Assignments



Wire Connections

Internal I/O Structure _

Relay Output	ON State Readback as 1	OFF State Readback as 0	
Form A Relay in RL3 ~ RL6	AC/DC RLx NO RLx COM	AC/DC × COM	
Form C Relay in RL0 ~ RL2 and RL7	× Load1 AC/DC Load2 Load2 Load2 RLx NC RLx COM RLx NO	← Load1 □ ← RLx NC RLx COM RLx COM RLx NO	

Ordering Information _____

M-7068 CR	4-channel Form A Signal Relay Output and 4-channel Form C Signal Relay Output Module (Gray Cover) (RoHS)
M-7068D CR	M-7068 with LED Display (Gray Cover) (RoHS)
M-7069 CR	4-channel Form A Power Relay Output and 4-channel Form C Power Relay Output Module (Gray Cover) (RoHS)
M-7069D CR	M-7069 with LED Display (Gray Cover) (RoHS)

Accessories -

PLCs

Adquisición Instrumentos Registradores

tM-7520U CR	RS-232 to RS-485 Converter (RoHS)	
tM-7561 CR	USB to RS-485 Converter (RoHS)	
🧿 I-7514U CR	4-channel RS-485 Hub (RoHS)	
SG-3000 Series	Signal Conditioning Modules for Thermocouple, RTD, DC Voltage, DC Current and Power Input transformers	
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