

Features

- 7 PhotoMOS Relay Outputs
- 4 kV ESD Protection
- No Arcing, No Bounce, And No Switching Noise
- Photocouple Isolation
- Built-in Dual Watchdog
- Configurable Power-on Value Settings
- Configurable Safe Value Settings
- Wide Operating Temperature Range: -25 ~ +75°C



Introduction

Both the I-7066 and the M-7066P feature seven Form A PhotoMOS relay output channels. In comparison to electromechanical relays, the PhotoMOS relays provide a faster response time, greater electrical endurance, higher vibration and shock resistance. There are also no arcing, no bounce, and no switching noise for the PhotoMOS relay. There are options for configuring power-on and safe digital output values, and both the I-7066D and the M-7066PD each include seven LED indicators that are used to display channel status as well as providing 4 kV ESD protection.

Applications

- All Types of On/Off Control
- Industrial Automation
- Industrial Machinery
- Building Automation
- Food and Beverage Systems
- Semiconductor Fabrication
- Control Systems

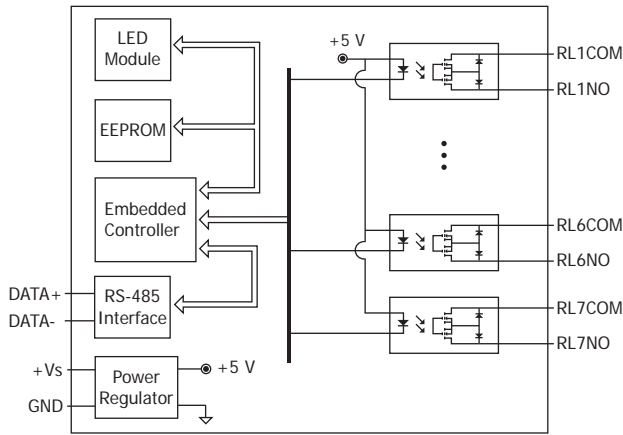
System Specifications

Models	I-7066	I-7066D	M-7066P	M-7066PD
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 Indicator/Display				
System LED Indicator	Yes, 1 LED as Power/Communication Indicator			
I/O LED Indicator	-	Yes	-	Yes
7-Segment LED Display	-			
Isolation				
Intra-Module Isolation, Field-to-Logic	5000 V _{DC}		2000 V _{DC}	
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 7 DO and Power, ±2 kV for the RS-485 Port			
Power				
Consumption	0.3 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°C			
Storage Temperature	-30 ~ +75°C			
Humidity	10 ~ 95% RH, Non-condensing			

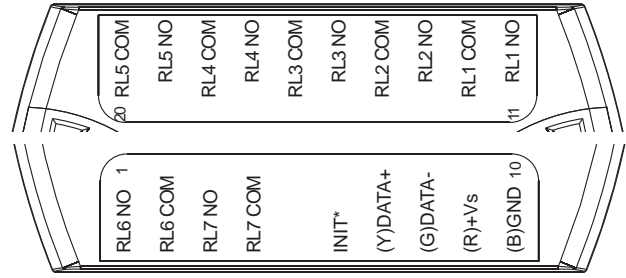
I/O Specifications

Models	I-7066	I-7066D	M-7066P	M-7066PD
PhotoMOS Relay				
Channels	7			
Type	Power Relay (Form A)			
Operating Load Voltage Range	350 V (AC peak or DC)		80 V (AC peak or DC)	
Continuous Load Current	0.13 A		1 A	
Peak Load Current	0.4 A		3 A	
Output Off State Leakage Current	1 uA			
Operate Time	2 ms (Max.)		5 ms (Max.)	
Release Time	1 ms (Max.)		0.5 ms (Max.)	
Electrical Endurance	No Arcing, No Bounce, and No Switching Noise			
Power-on Value	Yes			
Safe Value	Yes			

Internal I/O Structure



Pin Assignments



Wire Connections

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

Ordering Information

I-7066 CR	7-channel Photo-Mos Relay Output Module with DCON Protocol (Blue Cover) (RoHS)
I-7066D CR	I-7066 with LED Display (Blue Cover) (RoHS)
M-7066P CR	7-channel PhotoMOS Relay Output Module with DCON and Modbus Protocols (RoHS)
M-7066PD CR	M-7066P with LED Display (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 Pull-high/Pull-low 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 Inputs

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RS-485 Remote I/O Modules

I-7066/I-7066D/M-7066P/M-7066PD