

I-7066



I-7066D



M-7066P



M-7066PD

7-ch PhotoMOS Relay Module

Features

- I-7066(D)
  - PhotoMOS Relay: 0.13 A @ 350 V (AC peck or DC)
- M-7066P(D)
  - PhotoMOS Relay: 1 A @ 80 V (AC peck or DC)
- 7 PhotoMOS Relay Outputs
- No Arcing, No Bounce, and No Switching Noise
- Photocoupler Isolation
- Configurable Power-on Value and Safe Value Settings
- Built-in Dual Watchdog

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.

System Specifications

Model	I-7066	I-7066D	M-7066P	M-7066PD
CPU Module				
Watchdog Timer	Module, Communication (Programmable)			
Display				
Type	7066D/66PD: I/O LED Indicator			
Isolation				
Intra-module Isolation	5000 VDC		2000 VDC	
EMS Protection				
EFT (IEC 61000-4-4)	±4 kV for 8 Relay and Power Line ±2 kV for RS-485 Port Line			
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal ±8 kV Air for Random Point			
LED Indicators				
Status	1 x Power and Communication			
	7066D/66PD: 7 x Relay Output			
COM Ports				
Ports	1 x RS-485			
Baud Rate	1200 ~ 115200 bps			
Data Format	(N, 8, 1), (N, 8, 2), (E, 8, 1), (O, 8, 1)			
Protocol	DCON		Modbus RTU, DCON	
Power				
Reverse Polarity Protection	Yes			
Input Range	+10 ~ +30 VDC			
Consumption	0.4 W	0.8 W	0.5 W	0.9 W

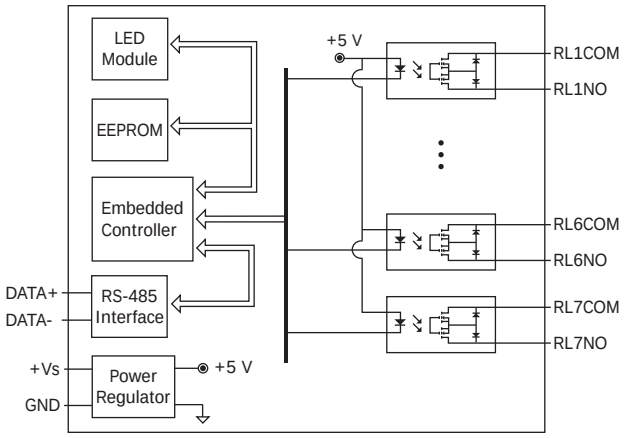
I/O Specifications

Model	I-7066(D)	M-7066P(D)
Relay Output		
Channels	7 (Form A)	
Type	PhotoMOS Relay	
Contact Rating	AC peck or DC:	
	350 V @ 0.13 A	80 V @ 1 A
	0.24 A @ 220 VDC 0.25 A @ 250 VAC	
Leakage Current	1 uA	
Operate Time	2 ms Max.	5 ms Max.
Release Time	1 ms Max.	0.2 ms Max.
Electrical Endurance	Long Life, No Arcing, No Bounce, No Switching Noise	
Power on Value	Programmable	
Safe Value	Programmable	

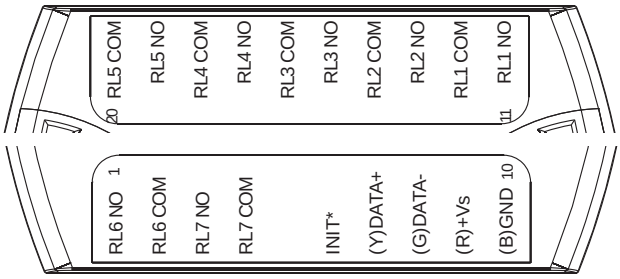
Mechanical	
Dimensions (mm)	72 x 123 x 35 (W x L x H)
Installation	DIN-Rail Mounting
Environment	
Operating Temperature	-25 ~ +75°C
Storage Temperature	-40 ~ +85°C
Humidity	10 ~ 95% RH, Non-condensing

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Internal I/O Structure

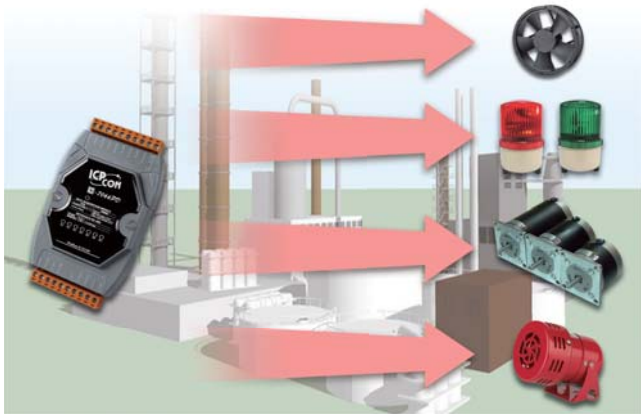


Pin Assignments

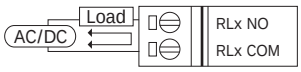
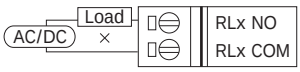


Applications

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



Wire Connections

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

Ordering Information

I-7066 CR	7-ch PhotoMOS Relay (0.13 A @ 350 V) Module using DCON Protocol (Blue Cover) (RoHS)
I-7066D CR	7-ch PhotoMOS Relay (0.13 A @ 350 V) Module with LED Display using DCON Protocol (Blue Cover) (RoHS)
M-7066P-G CR	7-ch PhotoMOS Relay (1 A @ 80 V) Module using DCON and Modbus Protocols (Gray Cover) (RoHS)
M-7066PD-G CR	7-ch PhotoMOS Relay (1 A @ 80 V) Module with LED Display, using DCON and Modbus Protocols (Gray Cover) (RoHS)

Accessories

tM-7520U CR 	Tiny Isolated RS-232 to RS-485 Converter (RoHS)
tM-7561 CR 	Tiny USB to Isolated RS-485 Converter with CA-USB18 Cable (RoHS)
tM-SG4 CR 	RS-485 Pull-high/Pull-low and Termination Resistor Module (RoHS)
I-7514U CR 	Isolated 4-channel RS-485 Repeater/Hub/Splitter (Gray Cover) (RoHS)
SG-770 CR 	7/14 channel Surge Protector (RoHS)
SG-3000 Series 	Signal Conditioning Modules for Thermocouple, RTD, DC Voltage, DC Current and Power Input Transformers

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