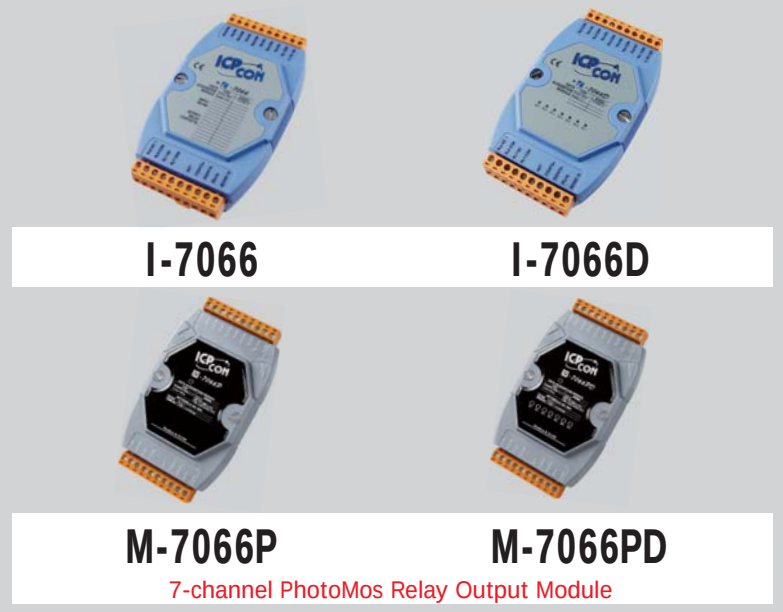


Features

- 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
- 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.

System Specifications

Model	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		DCON, Modbus RTU	
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, 7 LEDs as Relay Output Indicators	-	Yes, 7 LEDs as Relay Output Indicators
7-Segment LED Display	-			
Isolation				
Intra-module Isolation, Field-to-Logic	5000 VDC		2000 VDC	
EMS Protection				
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal			
	±8 kV Air for Random Line			
EFT (IEC 61000-4-4)	±4 kV for 8 Relay and Power Line			
	±2 kV for RS-485 Port Line			
Surge (IEC 61000-4-5)	-			
Power				
Reverse Polarity Protection	Yes			
Input Voltage Range	10 ~ 30 VDC			
Consumption	0.4 W	0.8 W	0.5 W	0.9 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°C			
Storage Temperature	-40 ~ +85 °C			
Humidity	10 ~ 95% RH, Non-condensing			

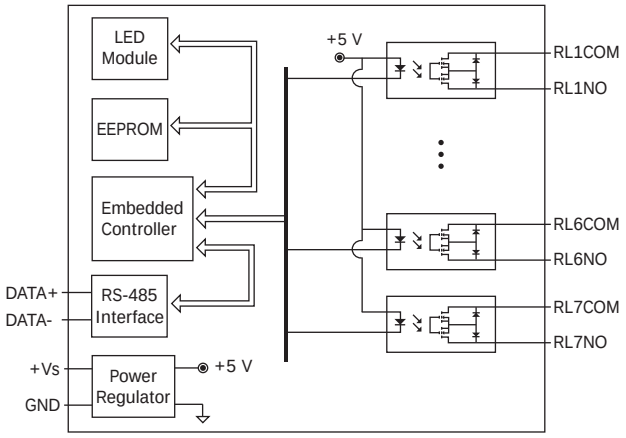
Applications

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

I/O Specifications

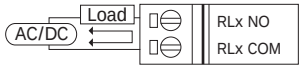
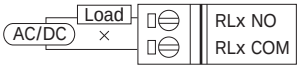
Model		I-7066	I-7066D	M-7066P	M-7066PD
Relay Output					
Channels		7			
Relay Type		Power Relay (Form A)			
Form A PhotoMOS Relay	Operating Load Voltage Range	350 V (AC peck or DC)		80 V (AC peck or DC)	
	Continuous Load Current	0.13 A		1 A	
	Peak Load Current	0.4 A		0.3 A	
	Output Off State Leakage Current	1 uA			
	Operate Time	2 ms (Max.)		0.5 ms (Max.)	
	Release Time	1 ms (Max.)		0.2 ms (Max.)	
	Electrical Endurance	Long Life, And No Arcing, No Bounce, And No Switching Noise			
Power-on Value		Yes, Programmable			
Safe Value		Yes, Programmable			

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 (Gray Cover) (RoHS)
M-7066PD CR	M-7066P 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