


M-7060P
M-7060PD

4-channel Isolated DI and 4-channel Relay Output Module

Features

- 4 Digital Inputs and 4 Relay Outputs
- Both Form A and Form C Power Relay
- Source and Sink type for DI
- DI Channels Can Be Used As 16-bit Counters
- Configurable Power-on Value Settings
- Configurable Safe Value Settings
- Dual Watchdog
- Wide Operating Temperature Range: -25 ~ +75°C



Introduction

The M-7060P offers 4-channel digital inputs, 2-channel Form A power relay outputs and 2-channel Form C power relay outputs at the same time. Moreover, you can choose either sink type or source type of digital input via wire connections. All Input channels are able to be used as 16-bit counters. M-7060P also has 8 LED indicators for power relay outputs and digital inputs status monitoring. And both support the Modbus RTU and DCON protocols which can be configured via software. There are options for configuring power-on and safe digital output values. 4 kV ESD protection and 3750 Vdc intra-module isolation are also provided to enrich the noise protection ability for industrial environment. The M-7060P Specifications difference, M-7060PD It support power relay Form A (16 A @ 250VAC / 10 A @ 30 Vdc) and Form C (10 A NO / 6 A NC @ 250 VAC & 10A NO / 6 A NC @ 30 Vdc)

Applications

Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote Diagnosis, Testing Equipment.

System Specifications

Models	M-7060P	M-7060PD
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 Indicator/Display		
System LED Indicator	Yes, 1 LED as Power/Communication Indicator	
I/O LED Indicator	-	Yes
7-Segment LED Display	-	
Isolation		
Intra-Module Isolation, Field-to-Logic	3750 V _{rms}	
EMS Protection		
ESD (IEC 61000-4-2)	+/-4 kV	
EFT (IEC 61000-4-4)	+/-4 kV	
Surge (IEC 61000-4-5)	+/- 3 kV	
Power		
Reverse Polarity Protection	Yes	
Input Range	10 ~ 30 Vdc	
Consumption	1.4 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 ~ +75°C	
Humidity	10 ~ 95% RH, Non-condensing	

I/O Specifications

Models	M-7060P	M-7060PD
Relay Output		
Channel	4	
Type	Power Relay (Form A x 2, Form C x 2)	
Contact Rating	Form A: 16 A@250 V _{ac} 10A @ 30 V _{dc} Form C: 10 A(NO)/6 A(NC) @ 250 V _{ac}	
Surge Strength	2500 V _{dc}	
Operate Time	6 ms	
Release Time	3 ms	
Mechanical Endurance	10 ⁷ ops.	
Electrical Endurance	5 x 10 ⁴ ops.	
Power-on Value	Yes	
Safe Value	Yes	
Digital Input/Counter		
Channel	4	
Contact	Wet	
Sink/Source (NPN/PNP)	Sink/Source	
On Voltage Level	+10 ~ 50 V _{dc}	
Off Voltage Level	+4 V _{dc} Max.	
Counter (100 Hz, 16-bit)	Yes	
Input Impedance	10 kΩ	
Overvoltage Protection	+/-70 V _{dc}	

