



M-7059



M-7059D

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8-channel 10-80 VAC Isolated Digital Input
Module with 16-bit Counters

Introduction

M-7059 offers 8 channels differential for AC digital input, each of which features photocouple isolation for channel to channel. Its on voltage level lies in 80 V ~ 250 VAC. All DI channels are also able to be used as 16-bit counters. M-7059D has 8 LED indicators for DI channel status. 4kV ESD protection and 4000V intra-module isolation are standard.

Features

- AC Digital Inputs
- Differential Inputs
- Photocouple Isolation
- DI Can Be Used As Counters
- 4 kV ESD Protection
- 4000 Vrms Isolation Voltage
- Dual Watchdog
- RoHS Compliance
- Wide Range of Operating Temperature: -25 ~ 75 °C

Specifications

Digital Input	
Channels	8
Input Type	AC, Differential, isolated
Off Voltage Level	3 VAC max.
On Voltage Level	10 ~ 80 VAC
AC Frequency	47 ~ 400Hz (> 45Hz min)
Input Impedance	10K Ohm, 1W
Counters	channels : 8
	Max. Counts : 16-bit (65535)
	Max. Input Frequency : 100Hz
	Min. Pulse Width : 5ms
Photo-Isolation	4000 VDC
Interface	
Interface	RS-485
Format	N, 8, 1
Baud Rate	1200 ~ 115200bps
LED Display	
1 LED as Power/Communication indicator	
8 LEDs as Digital Input indicators (for M-7059D)	
Power	
Input Voltage Range	10 ~ 30 VDC
Power Consumption	0.3W (M-7059) / 1.0W (M-7059D)
Protocol	
Support Modbus and DCON Protocol	Yes
Environment	
Operating Temperature	-25 ~ 75°C
Storage Temperature	-40 ~ 85°C
Humidity	10 ~ 95% RH, non-condensing

Ordering information

M-7059 CR	8-channel 10-80VAC Isolated Digital Input Module with 16-bit Counters (Blue Cover) (RoHS)
M-7059D CR	M-7059 with LED Display (RoHS)