

M-7045-NPN/M-7045D-NPN

16-channel Sink Type Isolated Digital Output Module



Model: M-7045-NPN



Model: M-7045D-NPN

Features

- Digital Outputs for Sink Type
- 4 kV ESD and EFT Protection
- 3 kV Surge Protection for Power Input
- Dual Watchdog
- Power On Value Setting
- Safe Value Setting
- Short Circuit Protection
- 3750 VDC Intra-Module Isolation
- A Wide Range of Operating Temperature: -25 °C ~ 75 °C
- RoHS Compliance

Introduction

M-7045-NPN offers 16 channels for digital output, each of which features Photo-couple isolation. M-7045-NPN supports sink type output with short-circuits protection. There are options for power on value and safe value for your consideration. M-7045D-NPN has 16 LED indicators for DO channel status. 4 kV ESD protection, 4 kV EFT protection, 3 kV Surge Protection for Power Input and 3750 VDC intra-module isolation are standard.

Applications

- Industry automation
- Industrial Machinery
- Building Automation
- Food & Beverage
- Semiconductor Fabrication
- Control system

Specifications

Digital Output	
Channels	16, Sink(NPN)
Load Voltage	+3.5 ~ +50 V
Output Current	700 mA per channel, Direct drive power relay module
Overvoltage Protection	60 VDC
Overload Protection	Yes
Short-circuit and Overcurrent Protection	1.4 A
Thermal Overload trip temperature	150°C
Intra-module Isolation, Field to Logic	3750 Vdc
ESD Protection (IEC 61000-4-2)	±4 kV Contact for each terminal,
	±8 kV Air for random point
EFT Protection (IEC 61000-4-4)	±4 kV for 16DO and Power
	±2 kV for RS-485 port
Surge Protection (IEC 61000-4-5)	±3 kV for Power Input.
Interface	
Interface	RS-485

Format	N, 8, 1 (details)
Baud Rate	1200 ~ 115200bps
LED Display	
1 LED as Power/Communication indicator	
16 LEDs as Digital Output indicators (for M-7045D-NPN)	
Power	
Input Voltage Range	10 ~ 30 Vdc
Power Consumption	0.4 W(M-7045-NPN)/1.2 W(M-7045D-NPN)
Protocol	
Support Modbus and DCON Protocol	Yes
Environment	
Operating Temperature	-25 ~ 75°C
Storage Temperature	-40 ~ 85°C
Humidity	5 ~ 95%, non-condensing

Ordering Information

M-7045-NPN	16-channel Open Collector Isolated Digital Output Module (Gray Cover)
M-7045D-NPN	M-7045-NPN with LED Display(Gray Cover)