

FnIO M – Series : ***M1808***

M1808(8 Channels, AC Input Terminal, 120Vac)

Date: 2018.06.19

Specification Preliminary

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History

REV.	PAGES	REMARKS	DATE	Editor
1.00		Preliminary	Jun 19, 2018	BS HA

Specification Preliminary

1. Environment Specification

Environmental specification	
Operation Temperature	-20°C to 60°C
Storage Temperature	-20°C~60°C
Relative Humidity	5% ~ 90% non-condensing
Mounting	DIN rail
General specification	
Shock Operating	IEC 60068-2-27
Vibration Resistance	Based on IEC 60068-2-6 Sine Vibration <ul style="list-style-type: none"> - 5 ~ 25Hz : ±1.6mm - 25 ~ 300Hz : 4g - Sweep Rate : 1 Oct/min, 20 cycles Random Vibration <ul style="list-style-type: none"> - 10 ~ 40 Hz : 0.0125 g²/Hz - 40 ~ 100 Hz : 0.0125 → 0.002 g²/Hz - 100 ~ 500 Hz : 0.002 g²/Hz - 500 ~ 2000 Hz : 0.002 → 1.3 x 10⁻⁴ g²/Hz - Test time : 1hrs for each test
Industrial Emissions	EN61000-6-4/All : 2011
Industrial Immunity	EN 61000-6-2 : 2005
Installation Position	Vertical and horizontal installation is available.
Product Certifications	CE, UL TBD

Specification Preliminary

2. M1808 (8 Channels, AC Input Terminal, 120Vac)

2.1. M1808 Specification

Items	Specification
Input Specification	
Inputs Per Module	8 Channels type
Indicators	8 Green input state
ON-state Voltage	120Vac nominal Min. 85Vac to Max. 132Vac
ON-state Current	7.5mA maximum/point @120Vac
Maximum OFF-state Voltage	45Vac maximum
Input Signal Delay	OFF to ON : 30mS @ 120Vac (TBD) ON to OFF : 130mS @ 120Vac (TBD)
Nominal Input Impedance	17.5K Ω typical
Frequency Range	60Hz
Common Type	8 Channels / 4 Common (L2/N)
General specification	
Power Dissipation	Max. 30mA @ 5.0Vdc
Isolation	I/O to Logic : Photocoupler isolation
Field Power	Field Power passes through to the next module. Supply voltage : 24Vdc Voltage range : 15V ~ 32Vdc (AC Power Not used)
Wiring	I/O Cable Max. 2.0mm ² (AWG 14)
Weight	72g
Module Size	12mm x 110mm x 75mm
Hot Swap	Possible
Environment Condition	Refer to '1. Environment Specification'

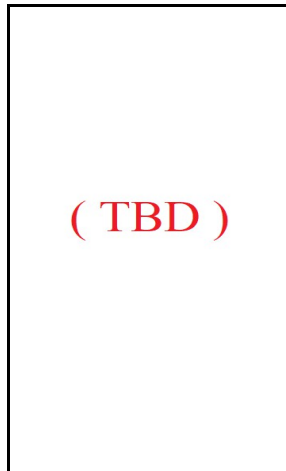
2.2. M1808 Wiring Diagram

(TBD)

Pin No.	Signal Description
0	Input Channel 0
1	Input Channel Common (L2/N)
2	Input Channel 1
3	Input Channel Common (L2/N)
4	Input Channel 2
5	Input Channel Common (L2/N)
6	Input Channel 3
7	Input Channel Common (L2/N)
8	Input Channel 4
9	Input Channel Common (L2/N)
10	Input Channel 5
11	Input Channel Common (L2/N)
12	Input Channel 6
13	Input Channel Common (L2/N)
14	Input Channel 7
15	Input Channel Common (L2/N)
16	N.C
17	N.C

2.3. M1808 LED Indicator

2.3.1. LED Indicator



LED No.	LED Function / Description	LED Color
0	INPUT Channel 0	Green
1	INPUT Channel 1	Green
2	INPUT Channel 2	Green
3	INPUT Channel 3	Green
4	INPUT Channel 4	Green
5	INPUT Channel 5	Green
6	INPUT Channel 6	Green
7	INPUT Channel 7	Green

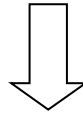
2.3.2. Channel Status LED

Status	LED	To indicate
Off Signal	Off	No Input Signal
On Signal	Green	Normal Operation

2.3.3. Mapping data into the image table

- **Input Module Data**

D7	D6	D5	D4	D3	D2	D1	D0
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- **Input Image Value**

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	D7	D6	D5	D4	D3	D2	D1	D0