

FnIO M – Series :

M2368

M2368(8 Channels, Source Output Terminal, 24Vdc, 0.5A, Multi-Com)

Table of Contents

[Table of Contents.....2](#)

[History.....3](#)

[1.ENVIRONMENT SPECIFICATION.....4](#)

[2.M2368 \(8 Channels Source Output Terminal\).....5](#)

[2.1.M2368 Specification.....5](#)

[2.2.M2368 Wiring Diagram.....6](#)

[2.3.M2368 LED Indicator.....7](#)

[2.3.1.LED Indicator.....7](#)

[2.3.2.Channel Status LED.....7](#)

[2.4.Mapping data into the image table.....8](#)

[2.5.Parameter Data.....8](#)

History

REV.	PAGES	REMARKS	DATE	Editor
-		Preliminary	2023/03/30	CW SEO

1. ENVIRONMENT SPECIFICATION

Environmental specification	
Operating Temperature	-25 °C~60 °C
UL Temperature	-25 °C~60 °C
Storage Temperature	-40 °C~85 °C
Relative Humidity	5% ~ 90% non-condensing
Mounting	DIN rail
General specification	
Shock Operating	IEC 60068-2-27
Vibration Resistance	IEC 60068-2-6, 4g
Industrial Emissions	EN 61000-6-4/A11 : 2011
Industrial Immunity	EN 61000-6-2 : 2019
Installation Position	Vertical and horizontal installation is available.
Product Certifications	UL, ATEX, CE, UKCA

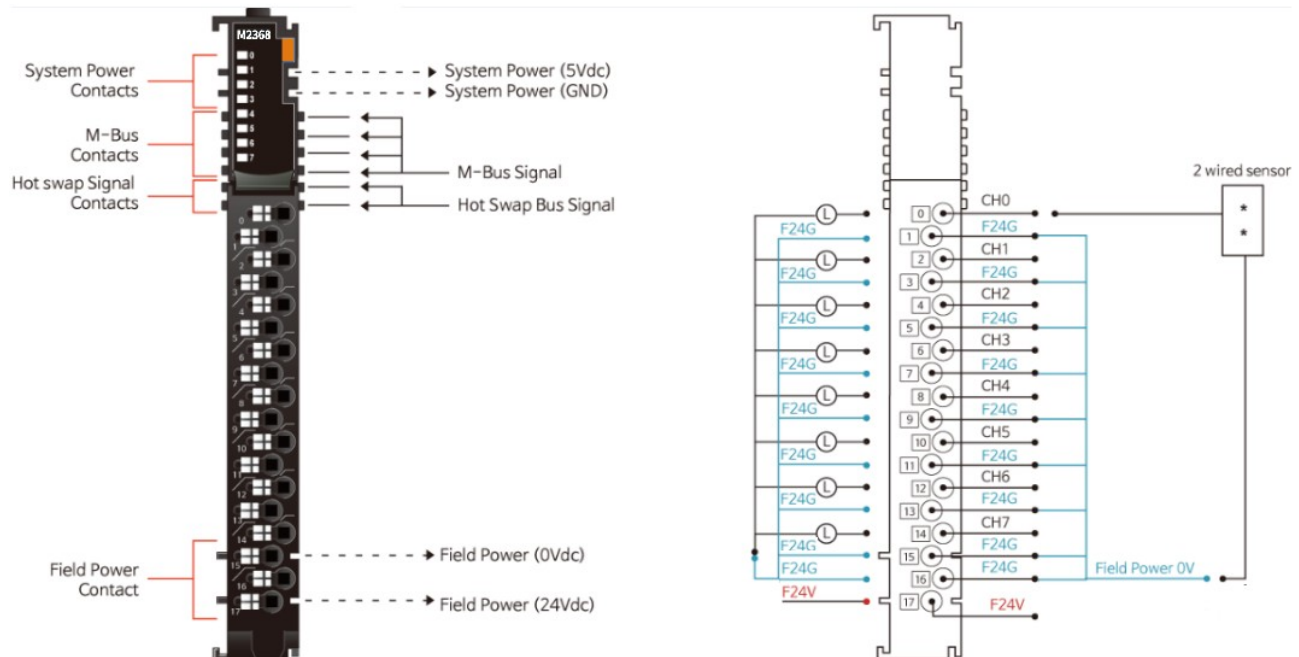
2. M2368 (8 Channels Source Output Terminal)

2.1. M2368 Specification

Items	Specification
Input Specification	
Output per module	8 channels Source type
Indicators	8 Green output state
Output Voltage Range	Nominal 24Vdc, Min. 15Vdc to Max. 28.8Vdc
ON-state voltage drop	0.5Vdc @ 25°C ~ 60°C
ON-State Min. Current	1mA per channel
OFF-State Leakage current	Max. 10uA
Output Signal Delay	OFF to ON : 0.1ms maximum ON to OFF : 0.5ms maximum
Output Current Rating	Max. 0.5A per channel / Max. 4A per unit
Output Protection (BSP742TXUMA1)	Over current limit : Min. 1.9A @ 25°C per each channels Thermal shutdown Short circuit protection
Common Type	8 channels / 10COM
General specification	
Power dissipation	40mA maximum @ 5.0Vdc
Isolation	I/O to Logic : Photocoupler isolation
UL Field Power	Supply voltage : 24Vdc nominal, Class 2
Field Power	Supply voltage : 24Vdc nominal Voltage range : 15~28.8Vdc Power dissipation: 40mA maximum @ 28.8Vdc
Single Wire	0.205mm ² - 1.3mm ² (24-16 AWG)
Torque	0.8Nm(7 lb-in)
Weight	72g
Module Size	12mm x 110mm x 75mm
Hot Swap	Possible
Environment Condition	Refer to '1. Environment Specification'

* Class 2, adjacent to voltage rating (30Vmax)

2.2. M2368 Wiring Diagram



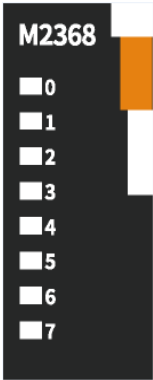
Pin No.	Signal Description
0	Output Channel 0
1	Common (Field Power 0V)
2	Output Channel 1
3	Common (Field Power 0V)
4	Output Channel 2
5	Common (Field Power 0V)
6	Output Channel 3
7	Common (Field Power 0V)
8	Output Channel 4
9	Common (Field Power 0V)
10	Output Channel 5
11	Common (Field Power 0V)
12	Output Channel 6
13	Common (Field Power 0V)
14	Output Channel 7
15	Common (Field Power 0V)
16	Common (Field Power 0V)
17	Common (Field Power 24V)

Series No	Through Air	Over Surface	CTI
RTB18C	1.5mm	1.5mm	$175 \leq CTI \leq 400$

Spacings : The following minimum spacing in inches (millimeters) shall be maintained between uninsulated live parts of opposite polarity; and between an uninsulated live part and a grounded Part including any mounting surface or exposed metal part.

2.3. M2368 LED Indicator

2.3.1. LED Indicator



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

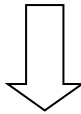
2.3.2. Channel Status LED

Status	LED	To indicate
Not Signal	Off	Normal Operation
On Signal	Green	Normal Operation

2.4. Mapping data into the image table

- **Output Image Value**

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



- **Output Module Data**

D7	D6	D5	D4	D3	D2	D1	D0
----	----	----	----	----	----	----	----

2.5. Parameter Data

- **Valid Parameter length: 2 Bytes**
- **Parameter Data**

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	Fault Action (ch0~ch7) 0: Fault value, 1:Hold last state							
Byte1	Fault value (ch0~ch7) 0:Off, 1:On							