

## Specification

# EW610 I/O Series

## EW62T2744

**EW62T2744 (4 Points, Relay Output Terminal, 24Vdc/2A,  
240Vac/2A)**

# Specification

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## History

REV.	PAGES	REMARKS	DATE	Editor
1.01	8	Specification Revision	Oct 17, 2019	

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## 1. Environment Specification

Environmental specification	
Operating Temperature	-40°C~70°C
UL Temperature	-20°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	Based on IEC 60068-2-6 Sine Vibration <ul style="list-style-type: none"> <li>- 5 ~ 25Hz : ±1.6mm</li> <li>- 25 ~ 300Hz : 4g</li> <li>- Sweep Rate : 1 Oct/min, 20 cycles</li> </ul> Random Vibration <ul style="list-style-type: none"> <li>- 10 ~ 40 Hz : 0.0125 g<sup>2</sup>/Hz</li> <li>- 40 ~ 100 Hz : 0.0125 → 0.002 g<sup>2</sup>/Hz - 100 ~ 500 Hz : 0.002 g<sup>2</sup>/Hz</li> <li>- 500 ~ 2000 Hz : 0.002 → 1.3 x 10<sup>-4</sup> g<sup>2</sup>/Hz</li> <li>- Test time : 1hrs for each test</li> </ul>
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

## 2. EW62T2744 (4 Points, Relay Output Terminal, 24Vdc/2A, 240Vac/2A)

### 2.1. EW62T2744 Specification

Items	Specification
Output specification	
Output per module	4 Points, Bi-directional
Indicators (Logic side)	4 Green output state
Relay Type	Form A, Single Pole Single Throw (SPST)
Output Voltage Range ( Load Dependent )	0~32Vdc @ 2.0A resistive 48Vdc @ 0.8A resistive 110Vdc @ 0.5A resistive Max. 240Vac @ 2.0A resistive
Output Current Rating ( At rated power )	2.0A @ 0~32Vdc 0.8A @ 48Vdc 0.5A @ 110Vdc 2.0A @ 240Vac  -40°C~70°C (2A Load 2ch) -40 ~60°C °C (2A Load 4ch)

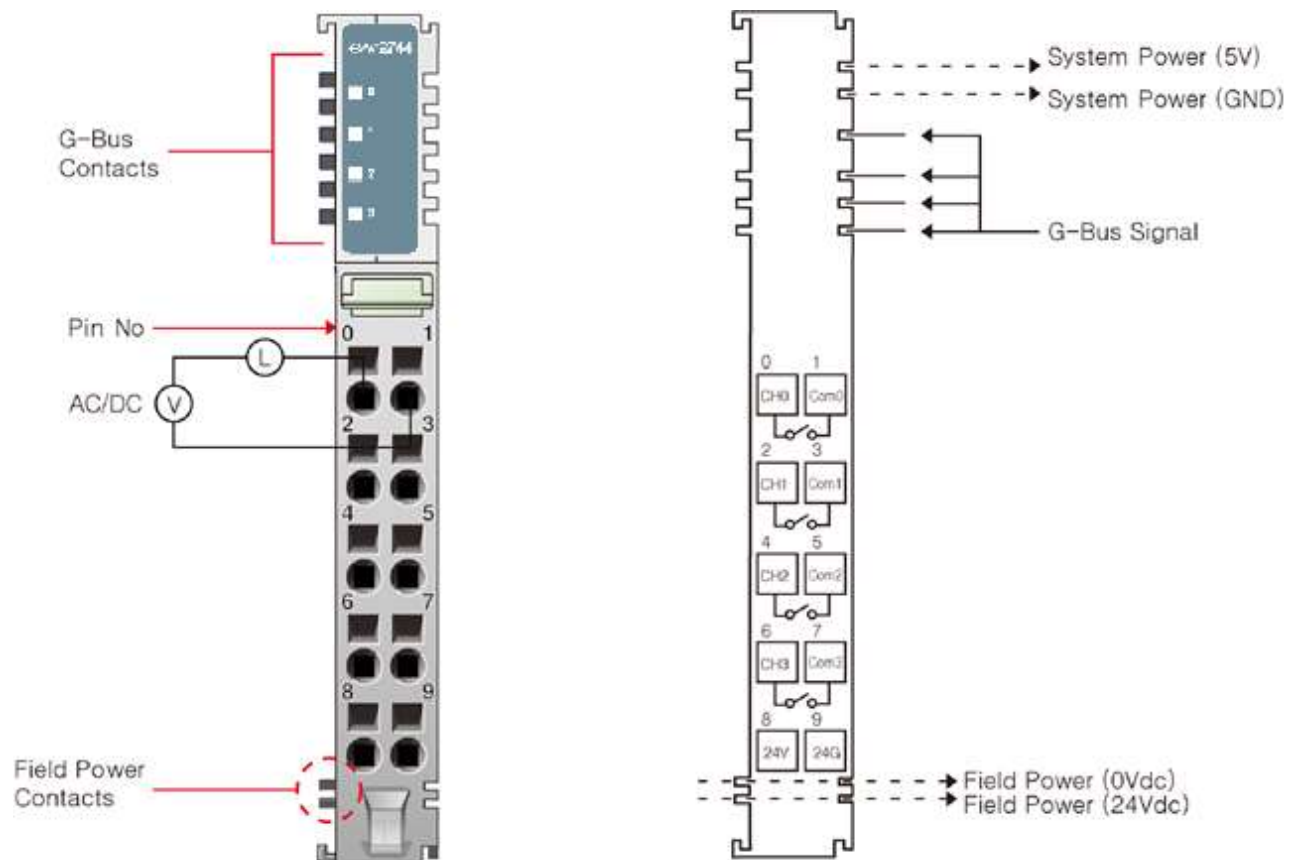
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Output Delay Time (resistive load)	OFF to ON : Max. 5ms @ 24Vdc ON to OFF : Max. 8ms @ 24Vdc OFF to ON : Max. 5ms @ 220Vac ON to OFF : Max. 15ms @ 220Vac
Expected Contact Life	20M Cycles (Resistive)
Frequency Range (Vac)	47Hz ~ 63Hz
Max. On-State Voltage Drop*	0.5V @ 2.0A, Resistive Load, 24Vdc
Commons Type	4Points / 2COM (Single Common)
<b>General Specification</b>	
Power dissipation	35mA @ 5.0Vdc
Isolation	I/O to Logic : Isolation Field Power : Non-isolation
Field Power	Supply voltage : 24Vdc nominal Voltage range : 22 to 26Vdc Power dissipation: 30mA @ 24Vdc (AC Power Not used)
Wiring	I/O Cable Max. 2.0mm <sup>2</sup> (AWG 14)
Weight	58g
Module Size	12mm x 99mm x 70mm
<b>Environment Condition</b>	<b>Refer to 'Environment Specification'</b>

\* Voltage Drop specification is dependent on the cable length due to the high Load.

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## 2.2. EW62T2744 Wiring Diagram



Pin No.	Signal Description	Signal Description	Pin No.
0	Output Channel 0	COM 0	1
2	Output Channel 1	COM 1	3
4	Output Channel 2	COM 2	5
6	Output Channel 3	COM 3	7
8	Field Power 24V	Field Power 0V	9

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## 2.3. EW62T2744 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

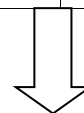
### 2.3.2. Channel Status LED

Status	LED	To indicate
Off Signal	Off	No Output Signal
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	Reserved				D3	D2	D1	D0



### • Output Module Data

D3	D2	D1	D0

## 2.5. Parameter Data

- Valid Parameter length : 2Byte
- Parameter Data

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action(0~3) 0 : Fault Value, 1 : Hold last state	0 ( Fault Value )
1	00-03	Fault Value (0~3) 0 : off, 1 : on	0 ( off )

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