



DIGITAL INPUT MULTIPLEXER (DIM4)

IO/DIM4 FEATURES

- Expands I/O capacity
- Microprocessor based technology
- Opto-isolated version available (IO/DIM4/OI)

The DIM 4 multiplexer is microprocessor based and designed to convert 4 separate digital input signals into a single analogue voltage output. Each combination of digital input signal is converted to an output voltage level which can then be used with a controller to read multiple status conditions.

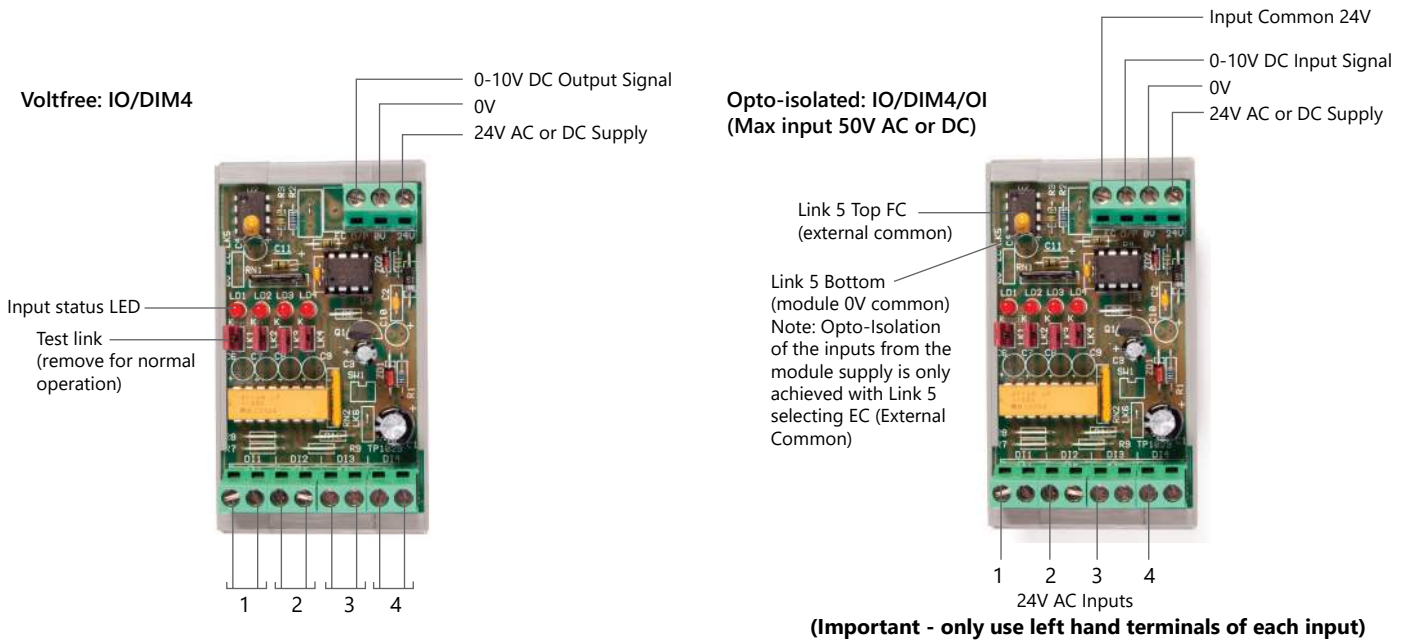
The DIM 4 multiplexer is suitable for use with most BMS controllers and is available in two versions for volt free inputs or opto-isolated inputs.

SPECIFICATION

Power Supply:	24V AC/DC +/-10%
Input:	4 x Volt free contacts (or Opto-isolated)
Output:	0-10V Volts DC
Power Consumption:	5mA + 0-10V output load
Multiplex Format:	
Input Signal:	1 2 3 4
Output Voltage:	4.8V 2.4V 1.2V 0.6V (Add values in any combination)
LED Indication:	When input contact closed
Terminals:	1.0mm recommended 2.5mm max
Input Test:	Link Jumpers
Operating Temperature:	0 to 50°C
Operating Humidity:	5-80% non-condensing
Dimensions:	82mm high, 45 mm wide, 42mm deep
Mounting:	DIN Rail
Warranty:	24 months
Country of Origin:	UK
Product Codes:	IO/DIM4 IO/DIM4/OI (Opto-isolation)



CONNECTIONS



Opto-Isolation

The IO/DIM4/OI can accept 24V AC inputs and opto-isolate the inputs from the module supply and the 0-10V signal output. Opto-isolation is selected on Link 5. If isolation is not required and the application is using a common ground supply then Link 5 can select the module 0V for the operation of the 24V AC input signals. The product code for this option is IO/DIM4/OI

BINARY OUTPUT TABLE

Decimal Input	Input Count Binary	Output Voltage (V)	IN1	IN2	IN3	IN4
0	0000	0.3	OFF	OFF	OFF	OFF
1	0001	0.6	OFF	OFF	OFF	ON
2	0010	1.2	OFF	OFF	ON	OFF
3	0011	1.8	OFF	OFF	ON	ON
4	0100	2.4	OFF	ON	OFF	OFF
5	0101	3.0	OFF	ON	OFF	ON
6	0110	3.6	OFF	ON	ON	OFF
7	0111	4.2	OFF	ON	ON	ON
8	1000	4.8	ON	OFF	OFF	OFF
9	1001	5.4	ON	OFF	OFF	ON
10	1010	6.0	ON	OFF	ON	OFF
11	1011	6.6	ON	OFF	ON	ON
12	1100	7.2	ON	ON	OFF	OFF
13	1101	7.8	ON	ON	OFF	ON
14	1110	8.4	ON	ON	ON	OFF
15	1111	9.0	ON	ON	ON	ON

For further install and setup information please contact technical@titanproducts.com