

Control systems for dynamic and dancing fountains

DMX-PWM4 CONVERTER



DMX RDM | **24 Vdc** | **4 OUTPUTS** | **PWM**

- 4 PWM outputs
- Optically isolated outputs
- Control by DMX-RDM protocol
- 24 Vdc supply voltage

The DMX-PWM4 Converter allows the interconnection of a DMX/RDM network to any PWM controllable device.

The converter is provided with four optically isolated PWM outputs, which make it ideal to control the ultimate RGBW LED light technology. Alternatively, it is possible to control more devices with the same converter, such as a group of RGB fountain lights together with an inverter or a submersible fountain pump.

Two analog inputs allow to choose among four different working modes of the outputs. In particular, the “anemometer mode” allows to change the water jets height according to wind, but leaving the fountain DMX programming unchanged; all this in combination with the 4-threshold Digital Anemometer SCV4.

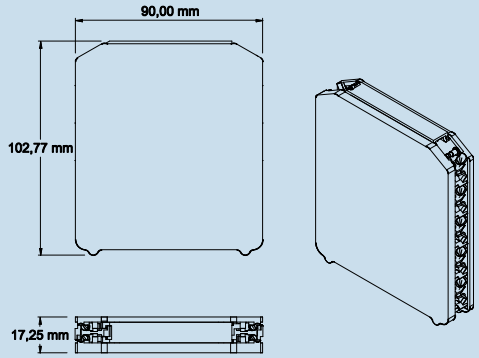
The special DMX port allows to connect up to 95 converters on the same communication network without using any DMX splitter.

The Converter’s DMX address can be set by RDM protocol with dedicated software.

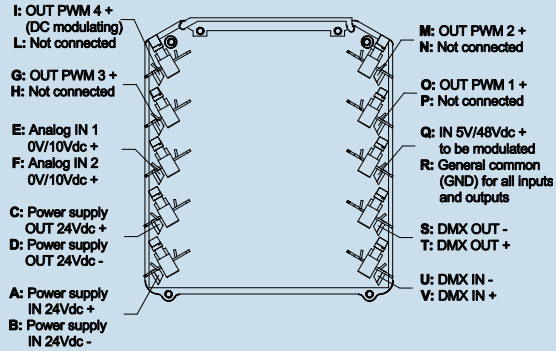
The front selector allows you to set the behavior of the Converter in the absence of a DMX signal, choosing between different standard scenes stored by factory setting.

Its compactness and small dimensions allow to place side by side many converters on the same DIN guide, thus promising the control of a high number of devices in an extremely limited space.

DIMENSIONS



TERMINALS



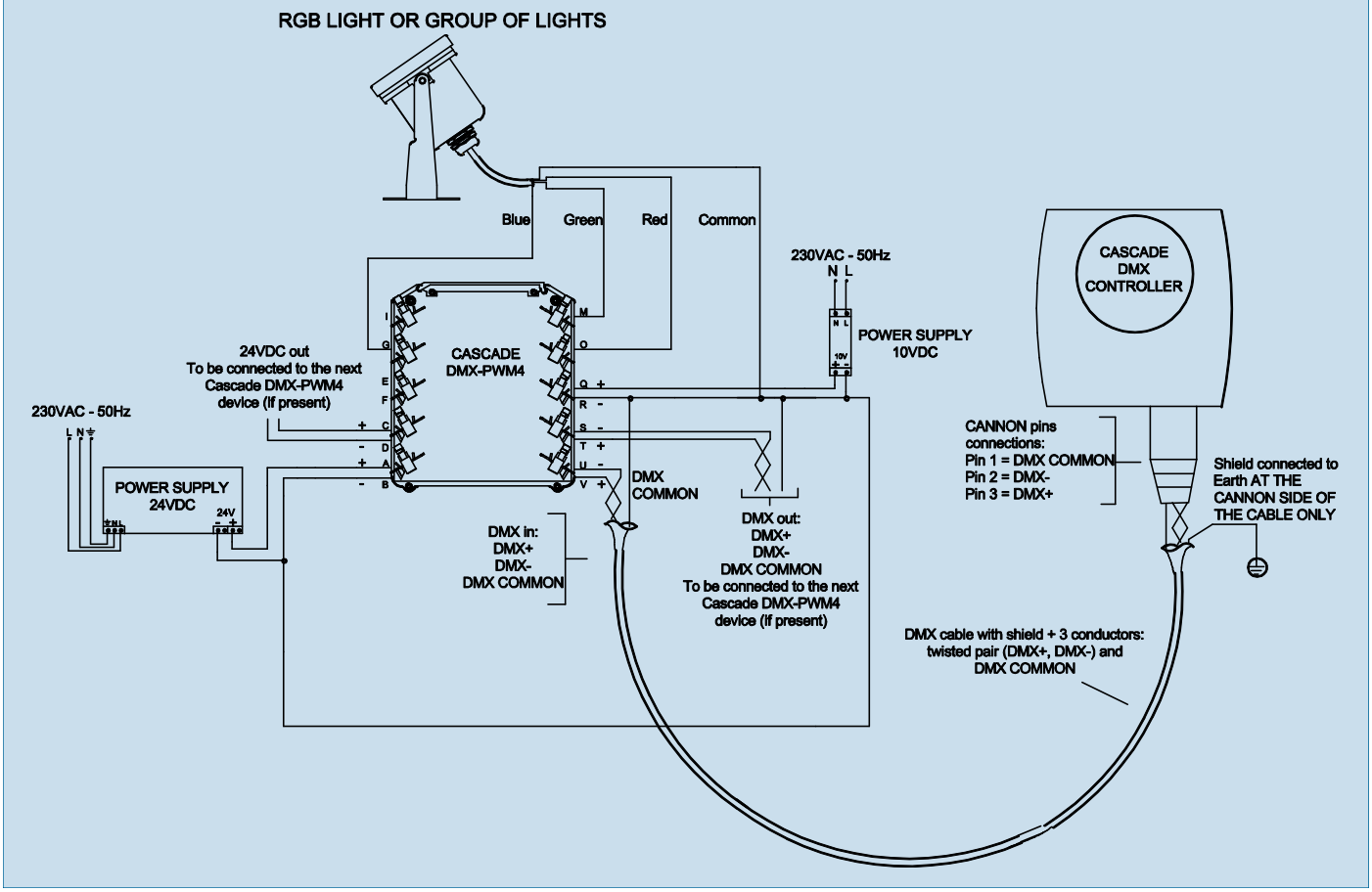
		Minimum	Typical	Maximum
Supply voltage	V_{DC}	22	24	26
Power required	W		1	
Output voltages	V_{PWM}	5	10	48
Output currents	mA		50	
Input voltages	V_{DC}	0		10
Inputs currents	mA		1	
Working temperature	°C	0		60
Storage temperature	°C		-20	
Dimensions	mm		110 x 90 x 17,5	
Weight	gr		120	
Container material			Polyamide (UL 94 - V0)	
Terminals			15 A - 2,5 mm2 (14 AWG)	

Jumper JP2				Inputs configuration
1-2	3-4	5-6	7-8	
OFF	OFF			Input 1 (E) 0-10V*
ON	OFF			Input 1 (E) 0-5V*
OFF	ON			Input 1 (E) 0-100V*
ON	ON			Input 1 (E) 0-20mA
		OFF	OFF	Input 2 (F) 0-10V*
		ON	OFF	Input 2 (F) 0-5V*
		OFF	ON	Input 2 (F) 0-100V*
		ON	ON	Input 2 (F) 0-20mA

Input		Outputs working mode
1 (E)	2 (F)	
OFF (0mA/0V)	OFF (0mA/0V)	Normal DMX mode
ON (20mA/5V/10V/100V)	OFF (0mA/0V)	The outputs ignore the DMX signal and change according to the sequence in memory, selected from the front function selector SW1
ON (20mA/5V/10V/100V)	ON (20mA/5V/10V/100V)	Output 4 fixed ON and outputs 1, 2 and 3 dependent on DMX signal
OFF (0mA/0V)	ON (20mA/5V/10V/100V)	Output 4 fixed ON and outputs 1, 2 and 3 fixed OFF

USE OF THE FRONTAL FUNCTION SELECTOR SW1		
POSITION	RELATED MODE	NOTES
0	Only RS485 communication	
1	Output 1 fixed ON only	
2	Output 2 fixed ON only	
3	Output 3 fixed ON only	
4	Output 4 fixed ON only	
5	Outputs 1 and 2 fixed ON only	
6	Outputs 1 and 3 fixed ON only	
7	Outputs 1 and 4 fixed ON only	
8	Outputs 2 and 3 fixed ON only	
9	Outputs 2 and 4 fixed ON only	
A	Outputs OFF	
B	Outputs 1, 2 and 3 fixed ON	
C	Sequence of the 4 outputs	
D	Sequence of the 4 outputs	The scene time and the transition time depend on the two values in memory
E	Binary sequence of the outputs 1, 2 and 3	
F	Outputs dependent on the values stored in memory	

CONNECTION EXAMPLE - CONTROL OF A LIGHT OR GROUP OF RGB LIGHTS



CONNECTION EXAMPLE - CONTROL OF A VARIABLE SPEED DRIVE AND GROUP OF RGB LIGHTS

