FlowLite

Specification Sheet
DMX512 / RDM Decoder

5-Channel DMX512 Decoder FL-CTL-DMX5

A five-channel DMX512 and RDM decoder for constant-voltage LED tape. Fed from a 12–24V DC constant-voltage driver, it turns a DMX console's signal into five PWM outputs of up to 8 A each, for RGB, RGBW and tunable white tape.

AT A GLANCE

Type	DMX512 / RDM decoder, 5 channels
Input	12–24V DC, constant voltage
Output	5 × 8 A, PWM, common anode
Output power	5 × (96–192) W
Signal ports	XLR 5-pin, XLR 3-pin, RJ45, screw terminals
Protection	Short circuit
Location	Indoor, dry location
Size	6.5" × 2.9" × 1.5"



ORDERING GUIDE

MODEL	TYPE	SERIES
FL-	☐	☐
	CTL Control	**DMX5** 5-ch DMX

Example: **FL-CTL-DMX5** 5-channel DMX512 / RDM decoder

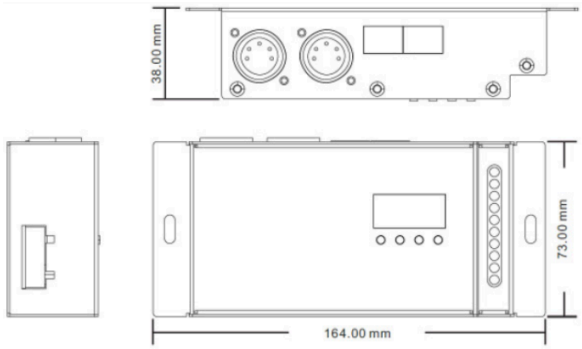
FEATURES

- Industrial DMX512 and RDM decoder, 5 PWM outputs
- DMX channel quantity settable from 1 to 5
- RDM: the console detects the decoder and sets its DMX address
- Numeric digital display for setup
- PWM 16-bit or 8-bit, 16-bit by default
- 10 PWM frequencies, 500 Hz to 30 kHz, 1 kHz by default
- Gamma 0.1–9.9, logarithmic or linear dimming
- Metal housing, master or decoder mode

MODEL

MODEL	ITEM	INPUT	OUTPUT	NOTES
FL-CTL-DMX5	DMX512 / RDM decoder	12–24V DC	5 × 8 A, 5 × (96–192) W	Constant voltage, common anode

DIMENSIONS & MOUNTING



MOUNTING & INSTALLATION

• Indoor use, dry location only. Do not expose to moisture.

• Install with the power off.

• DMX in and out on XLR 5-pin, XLR 3-pin, RJ45 or screw terminals.

• Dimensions: 6.5" × 2.9" × 1.5" (164 × 73 × 38 mm).

TECHNICAL SPECIFICATIONS

OUTPUT

Output type	PWM, constant voltage, common anode
Channels	5 (1 to 5 DMX channels settable)
Output current	5 × 8 A
Output power	5 × (96–192) W
PWM resolution	16-bit or 8-bit (default 16-bit)
PWM frequency	10 levels, 500 Hz – 30 kHz (default 1 kHz)

INPUT

Input voltage	12–24V DC

CONTROL

Protocol	DMX512 / RDM
Standards	DMX512, DMX512(1990), DMX512-A, RDM V1.0 (ESTA E1.20-2006)
Ports	XLR 5-pin, XLR 3-pin, RJ45, screw terminals (in and out)
Decoding modes	Channel brightness, master brightness, strobe (default dp1.1)
Dimming curve	Gamma 0.1–9.9, logarithmic or linear
Interface	Numeric digital display
Compatible tape	RGB, RGBW, tunable white

GENERAL

Protection	Short circuit
Isolation	Galvanic isolation
Housing	Metal, black
Environment	Indoor, dry location