

DMX INTERFACE

12-CHANNEL CONTACT CLOSURE



Model shown: PWINF DIN CC

WARRANTY

3-year limited warranty. Complete warranty terms located at: <https://www.acuitybrands.com/support/warranty>

NOTE

Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

OVERVIEW

Pathway DMX Interfaces provide a flexible way of creating custom solutions to DMX control challenges.

The 12-Channel Contact Closure provides DMX512 control over 12 form-C relays for low voltage or signal level switching in a DIN-rail mountable format.

Each relay may be independently wired for normally-open (NO) or normally-closed (NC) operation, and can be configured as momentary or maintained.

The Pathway 12-Channel Contact Closure is field configurable through its front panel, or through RDM.

FEATURES

- Control 12 form-C relays using DMX
- 9 operating modes for maximum versatility
- DMX512 start address and operating mode configurable from front panel or remotely using RDM
- Each relay may be wired as normally-open or normally-closed
- User-configurable global trigger threshold
- Indicator LEDs for Power, Processor, DMX Input and Relay Status
- DMX line termination switch
- Suitable as pilot relay for high voltage contactors (Requires adequate arc protection by others)
- Data and power easily daisy-chained to other DIN Interface units
- One DMX Input and one DMX Thru connection
- Convenient DMX Input Signal Present output relay; normally-open or normally-closed options

ORDERING INFORMATION

PWINF		EXAMPLE: PWINF DIN CC	
Series	Form Factor	Control Type	
PWINF Pathway DMX Interface	DIN DIN-mount	CC	12-Channel Contact Closure Relay (8.0")

Accessories

PWPWR DIN TERM 50W 24VDC	Power Supply, DIN-mount, Compression Fit Terminal, 50 Watts, 24 Volts DC	PWENC MED HOR	DIN System Enclosure, Medium 10" x 23" x 4.5", Horizontal Rails
PWENC SHELF HOR	DIN System Enclosure, 2-RU Shelf unit with 2x16.5", Horizontal Rails	PWENC LRG VER	DIN System Enclosure, Large 18.5" x 31.5" x 6.25", Vertical Rails
PWENC SML VER	DIN System Enclosure, Small 10" x 13" x 4.5", Vertical Rails	PWCON SPARE IDC5 Q4	Connector, Spare, 5-Pin Insulation Displacement Contact Connector, (Qty 4)
PWENC MED VER	DIN System Enclosure, Medium 10" x 23" x 4.5", Vertical Rails	PWCON SPARE CSC5 Q4	Connector, Spare, 5-Pin Compression Screw Connector, (Qty 4)
PWENC SML HOR	DIN System Enclosure, Small 10" x 13" x 4.5", Horizontal Rails		

SPECIFICATIONS

Electrical

Input Ratings	9-30VDC power input 6W maximum power consumption
Isolation & Fault Protection	1500V isolation between DMX input and module electronics 250V fault protection on DMX port
Regulatory Compliance	CE
Relay Actuations	Rated for minimum 100,000 at 2A @ 30VDC

Mechanical

Dimensions	8.0" W x 4" H x 1.85" D (203mm W x 103mm H x 47mm D)
Weight	0.7 lbs (0.32 kg)
Mounting Interface	35mm x 7.5mm DIN rail

Environmental

Operating Temperature	14°F to 113°F (-10°C to 45°C)
Relative Humidity	5-95%, non-condensing
Standard Compliance	RoHS 2011/65/EU + A1 2015/863

General

Compliance	ANSI E1.11 DMX512-A R2013 ANSI E1.20 RDM - Remote Device Management Class 2 Low Voltage
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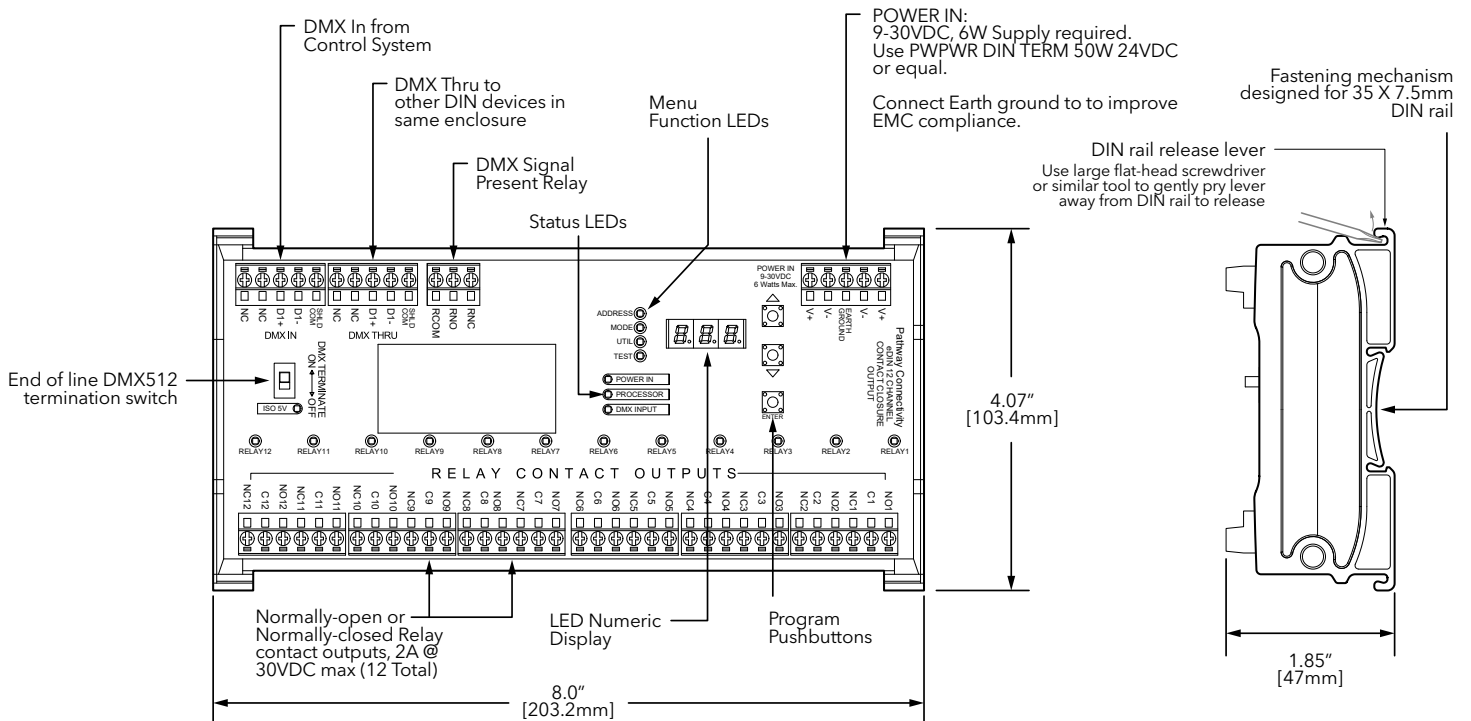
PART NUMBER CROSS-REFERENCE

PREVIOUS		NEW
Part Number	Catalog Number	Description
1003	PWINF DIN CC	DMX Interface, DIN-mount, 12 Contact Closure Relay (8")

WIRING

DMX512 / RDM PINOUT		
Purpose	XLR / Terminal Block Pin #	RJ45 PIN # and Wire Color
Shield / Common	1	7 - White / Brown
Data - (complement)	2	2 - Orange
Data + (true)	3	1 - White / Orange
Not Used	4	6 - Green
Not Used	5	3 - White / Green
Not Used - Do Not Connect	N/A	4 - Blue
Not Used - Do Not Connect	N/A	5 - White / Blue
Not Used - Do Not Connect	N/A	8 - Brown

DIMENSIONS



OPERATING MODES

Mode 1: 12-Channel Maintained Control	Each relay is maintained "on" as long as the DMX value of its associated slot is above the threshold.
Mode 2: 12-Channel Momentary Control	When the DMX slot for a given relay passes through the threshold, either increasing or decreasing, the relay will close for 100mS.
Mode 3: 12-Channel Momentary "On"	When the DMX slot for a given relay is increasing and passes through the threshold, the relay will close for 100mS.
Mode 4: 6-Channel Momentary Split	Each adjacent pair of relays are associated with a single DMX slot. When the DMX level of that slot passes through the threshold, increasing, the lower number relay will close for 100mS. When the DMX level of that slot passes through the threshold, decreasing, the higher number relay will close for 100mS.
Mode 5: 6-Channel Maintained Split	Each adjacent pair of relays are associated with a single DMX slot. When the DMX level of that slot passes through the threshold, increasing, the lower number relay will close and maintain state, while the higher number relay will open. When the DMX level of that slot passes through the threshold, decreasing, the lower number relay will open while the higher number relay will close and maintain state.
Mode 6: 12-Channel Momentary Split with Secondary Reset	<p>2 Sequential DMX slots are associated with each adjacent pair of relays. When the lower DMX slot increases through the threshold, the lower-numbered relay will close for 100mS. When the lower DMX slot decreases through the threshold, the higher-numbered relay will close for 100mS.</p> <p>To provide a secondary reset, when the higher DMX slot passes through the threshold, increasing, the higher relay will close for 100mS. If the higher DMX slot decreases through the threshold, the relays remain unchanged.</p>
Mode 7: Chase	Each relay will be triggered for two seconds. This mode is intended as a test feature.
Mode 8: Single Channel Select	Raising the DMX level of the start slot will maintain each relay in turn, from none up to the 12 th . At a DMX percentage between 0-8%, no relays will be triggered. A DMX percentage between 9-16% will maintain relay 1 only; a DMX percentage between 17-24% will maintain relay 2 only, and so on. In this mode, the Contact Closure Interface has a DMX footprint of 1 slot.
Mode 9: Single Channel Build	Raising the DMX level of the start slot will trigger each relay additionally. At a DMX percentage between 0-8%, no relays will be triggered. A DMX percentage between 9-16% will maintain relay 1 only; a DMX percentage between 17-24% will maintain relay 1 and relay 2, and so on. In this mode, the Contact Closure Interface has a DMX footprint of one channel.

APPLICATION RISER

