

C2N-UNI8IO

Universal Keypad Interface

- > Transforms a third-party keypad into a Cresnet® device
- > Low-profile design fits in 55mm European electrical box
- > Supports 8 buttons and indicators
- > Drives up to 8 LEDs for feedback

The C2N-UNI8IO is a compact interface which allows a third-party keypad to be connected directly to the Cresnet® control network. Its low-profile design makes the C2N-UNI8IO excellent for installation directly inside a 55mm European electrical box or other suitable enclosure. Supporting up to 8 buttons and indicators, the universal keypad interface can be used in a variety of applications including homes and offices where custom styling is of the most importance, or museums and courtrooms where simple user interfaces are required.

Because it supports contact closure inputs, the C2N-UNI8IO can transform virtually any button or switch into a Cresnet device. The simple low-voltage, 4-wire bus makes Cresnet the smart choice in wiring infrastructure, allowing daisy chaining of devices for present or future needs. Simply add door sensors to systems providing indication of entry or exit, or take a doorbell to the next level by triggering the audio system when “rung.”

More than just an input interface, 8 low-voltage outputs are capable of driving LEDs, relay coils, or lamps. Visual feedback is natively supported with the C2N-UNI8IO because it's capable of delivering various light intensities and blinking patterns to LEDs. Just as Crestron keypads indicate which source is selected or what lighting scene has been chosen, the universal keypad interface lets any keypad follow suit.

SPECIFICATIONS

Connectors

NET: (1) 4-pin 3.5mm detachable terminal block; Cresnet slave port, connects to Cresnet control network

INPUT: (1) 10-pin 0.1" IDC connector, includes (10) single conductor 22 AWG 3" flying leads

Inputs comprised of (2) GND references and (8) digital inputs (referenced to GND);

OUTPUT: (1) 10-pin 0.1" IDC connector, includes (10) single conductor 22 AWG 3" flying leads Outputs comprised of (1) 24VDC, (1) 5VDC, and (8) digital outputs (referenced to GND);

Note: 24V connector is a Cresnet power pass-thru

Ratings

Digital Inputs: (8) Inputs rated for 0-24 Volts DC, includes 10K ohm pull-up to 5VDC

Logic Low Threshold: ≤ 1 Volt Logic High Threshold: ≥ 3.7 Volts

Digital Outputs: (8) Open drain outputs rated for 100mA @ 24VDC, 500mA max (combined for all 8 outputs), when not in “current limit” mode

Maximum Power Load: 1A @ 24VDC^[1] and 40mA @ 5VDC



Controls & Indicators

SETUP: (1) Red LED and (1) miniature pushbutton, used for touch-settable ID (TSID)

OUTPUT CURRENT LIMIT: (1) 8-position DIP switch, engages 1K ohm current limiting resistor per output, limits each output to 5mA @ 5VDC for use with LEDs

Note: When in “current limit” mode, be sure to not exceed the above rating.

Power Requirements

Cresnet Power Usage: 0.5 Watts (0.02 Amps @ 24 Volts DC)

Does not account for LED, bulbs, or other device's power consumption.

Environmental

Temperature: 32° to 104°F (0° to 40°C)

Humidity: 10% to 95% RH (non-condensing)

Dimensions

Height: 2.06 in (52.3 mm)

Width: 2.05 in (51.9 mm)

Depth: 0.68 in (17.3 mm)

Weight

0.815 oz (23.1 g)

MODELS & ACCESSORIES

Available Models

C2N-UNI8IO: Universal Keypad Interface

C2N-UNI810 Universal Keypad Interface

Notes:

1. Actual load capability dependent upon the amount of available Cresnet power in the system.

