DIN-AO8

DIN Rail Analog Output Module

The DIN-AO8 is a DIN rail-mounted automation control module that provides
eight analog output ports for interfacing with third-party lighting and
heating/cooling systems.

Analog Outputs

Each analog output port provides a 0 to 10 Volt DC control signal ideally
suited for controlling 0-10V lighting dimmers and heating/cooling valves.
Ten-bit resolution ensures precise recall of lighting and climate control
settings and smooth ramping between levels.

Override Input

An override input is provided to allow an external contact closure to
momentarily override the control system program and set each output to its
override preset level. Levels can be adjusted and saved locally from the
front panel, or remotely via software.

DIN Rail Installation

The DIN-AO8 is designed to snap onto a standard DIN rail for installation
in a wall mount enclosure or mounted on a wall panel. Wiring connections
are made using detachable screw terminals positioned along the top and
bottom, clearly accessible from the front for easy installation and

servicing. All setup controls and indicators are positioned on the center
front panel. When installed in an enclosure utilizing 45 mm cutouts, the
DIN-AO8's front panel stays accessible while the connections are

SPECIFICATIONS

Connections

OUTPUTS 1 - 8: (4) 4-pin 3.5mm detachable terminal blocks comprising (8)
analog output ports;
Voltage Control Range: 0 to 10 Volts DC;
Maximum Sink/Source Current: ±20mA per channel;
NET: (2) 4-pin 3.5mm detachable terminal blocks, paralleled;
OVERRIDE: (2) 2-pin 3.5mm detachable terminal blocks, paralleled;
Sensing input for external low-voltage contact closure;
Activates override mode when a closure is present;

Controls & Indicators

OUTPUTS 1 - 8: (8) Red LEDs and (8) miniature pushbuttons for status
indication and local control of each channel
NET ID: (2) 7-Segment green LED digits and (2) miniature pushbuttons for
setting Cresnet ID; digits also display output levels
SETUP: (1) Red LED and (1) recessed miniature pushbutton for enabling
setup mode and touch-settable ID
OVR: (1) Red LED and (1) miniature pushbutton for enabling override mode
and saving override presets

RESET: (1) Recessed miniature pushbutton, resets internal processor

Enclosure

Light gray polycarbonate housing with polycarbonate label overlay, UL94

V-0 rated, 35mm DIN EN 60715 rail mount, DIN 43880 form factor for

enclosures with 45mm front panel cutout, occupies 6 DIN module spaces

(108mm)

Power Requirements

Cresnet Power Usage: 6 Watts (0.25 Amps @ 24 Volts DC)

Environmental

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

Humidity: 10% to 90% RH (non-condensing)

Heat Dissipation: 21 BTU/hr

Dimensions

Height: 3.71 in (9.42 cm)

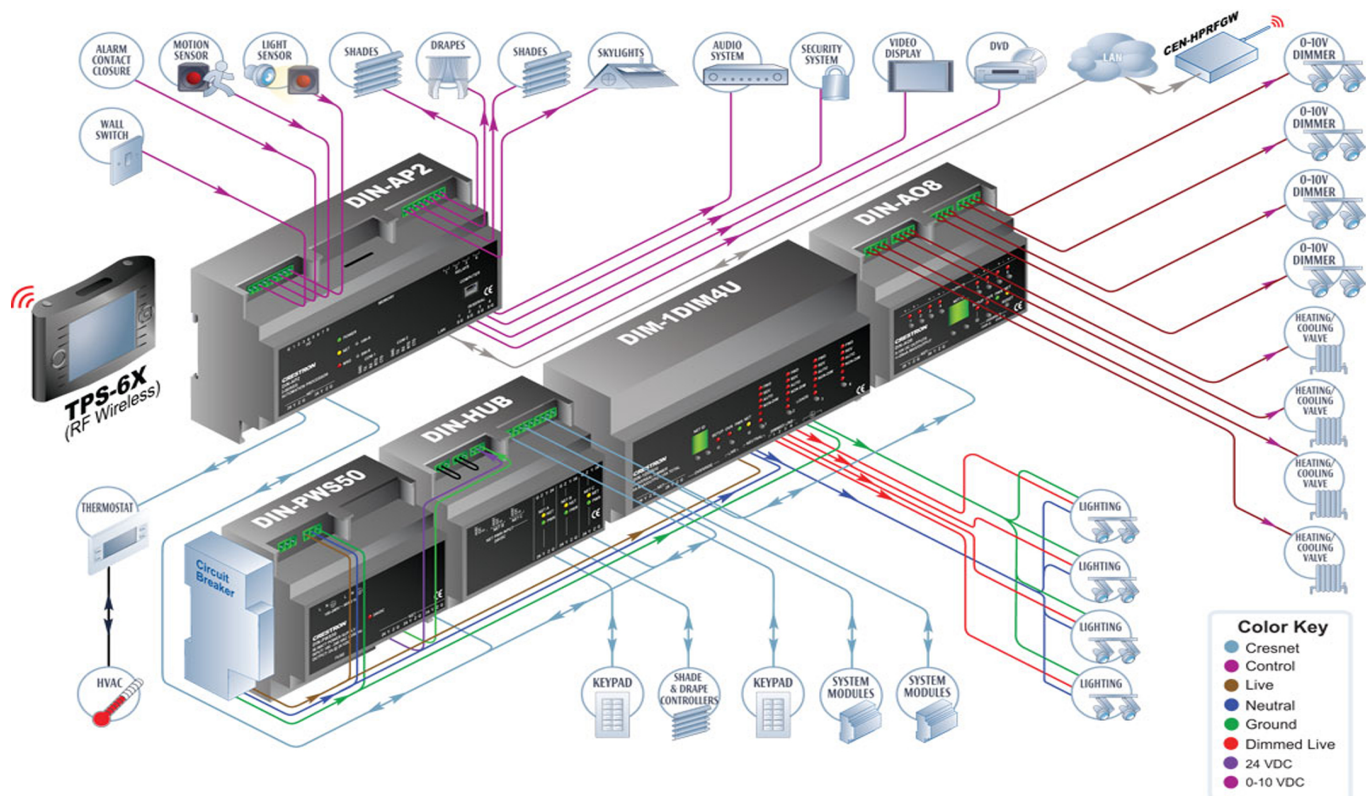Width: 4.18 in (10.60 cm)

Depth: 2.35 in (5.95 cm)

Weight

6.3 oz (179 g)

DIN Rail Automation System
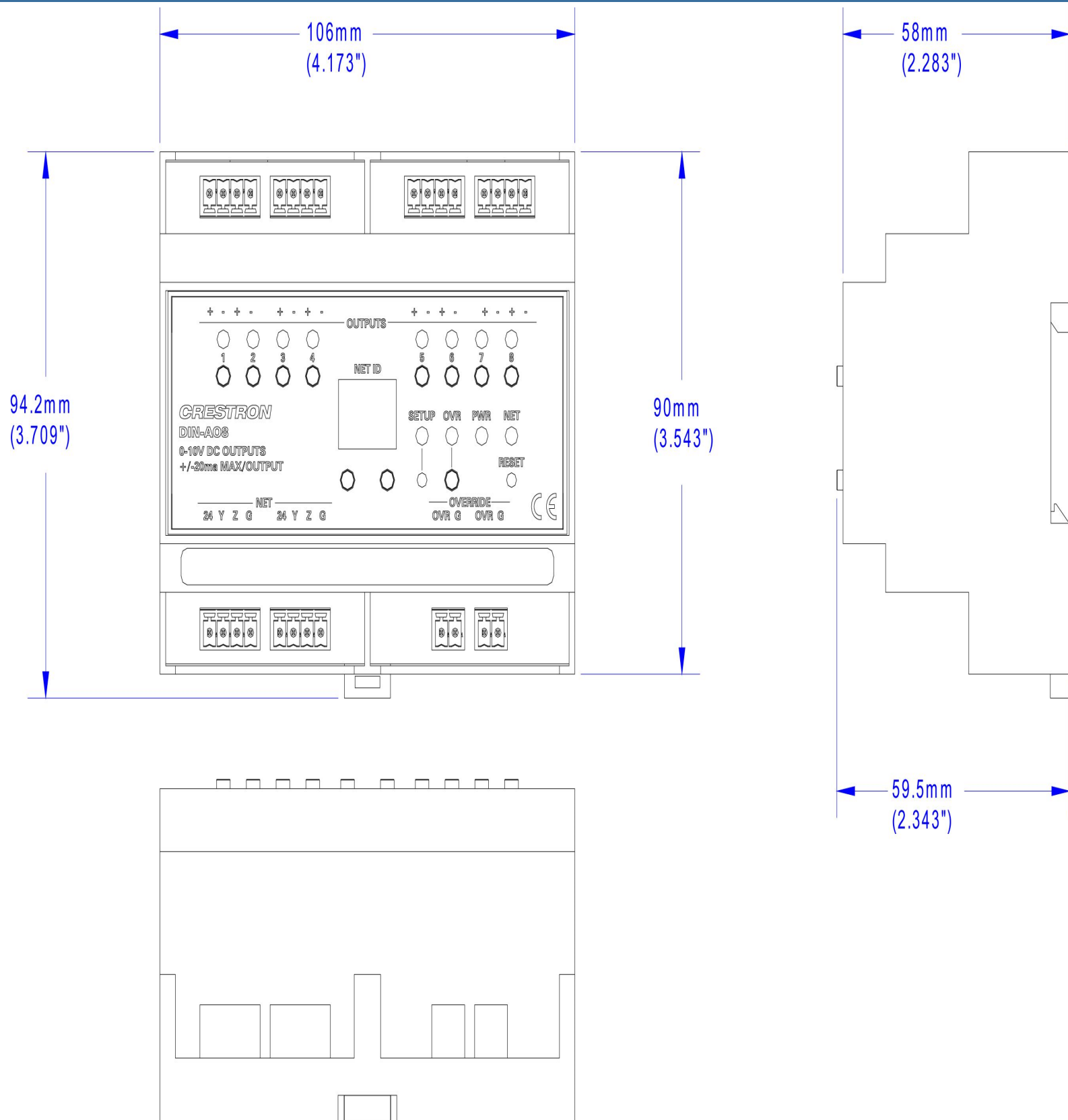
DIN-AO8 Example Application

Color Key
- Cresnet
- Control
- Live
- Neutral
- Ground
- 0-10V

106mm
(4.173")

58mm
(2.283")

94.2mm
(3.709")

90mm
(3.543")

OUTPUTS

NET ID

1 2 3 4 5 6 7 8

CRESTRON

DIN-AO8

0-10V DC OUTPUTS

+/-20ma MAX/OUTPUT

SETUP OVR PWR NET

RESET

NET

24 Y Z G 24 Y Z G

OVERRIDE

OVR G OVR G

CE

59.5mm
(2.343")

DIN-AO8

DIN Rail Analog Output Module

106mm
(4.173")

58mm
(2.283")

94.2mm
(3.709")

90mm
(3.543")

OUTPUTS

NET ID

CRESTRON

DIN-AO8

0-10V DC OUTPUTS
+/-20ma MAX/OUTPUT

SETUP   OVR   PWR   NET

RESET

NET

24 Y Z G   24 Y Z G

OVERRIDE
OVR G   OVR G

CE

59.5mm
(2.343")