O3-DIN

O3-DIN-8xP: 8 Universal I/O Module

Description

The O3-DIN-8xP is an I/O module for the O3-DIN system. Its 8 universal points can be configured to create the exact combination of inputs and/or outputs for a given application. When expansion is needed in the future, it's as easy as adding more modules to an existing system.

Application

The O3 system is a complete solution that combines HVAC, access control and lighting control in a modular system. It combines multiple protocols and I/O points in one unit.

The O3 system improves room control, avoids duplicate devices and offers a satisfying occupant experience at a lower energy cost.

Features

▶ 8 universal points that can be configured as inputs or outputs

▶ Software-configurable I/O

▶ Support for lighting applications with dimming

▶ DIN rail mountable (EN 50022-35x7.5)

▶ Modular design provides flexibility, ease of service and reduces cost of future upgrades and expansions.

Specifications

Universal Points
Up to 8 inputs (16-bit), supporting:
   0–5 VDC
   0–10 VDC
   10 kΩ thermistor
   Dry contact (using 10 kΩ thermistor software setting)
   4–20 mA (using external 250 Ω resistor on 0–5 V setting)

Up to 8 outputs (12-bit), supporting:
   0–10 V @ 20 mA max (sourcing)
   1–10 V @ 10 mA max (sinking)

Connectors
Removable screw-type terminal connectors

Wiring Class
Class 2 / SELV

Power
24 VDC, 4 W max with fully loaded outputs*
* Module power is internally supplied from the O3-DIN controller through the module bus port.

Ambient Rating
–30°C to 55°C (–22°F to 131°F)
10% to 95% RH (non-condensing)

Dimensions
36 × 111 × 58 mm (1.42 × 4.37 × 2.28 in.)
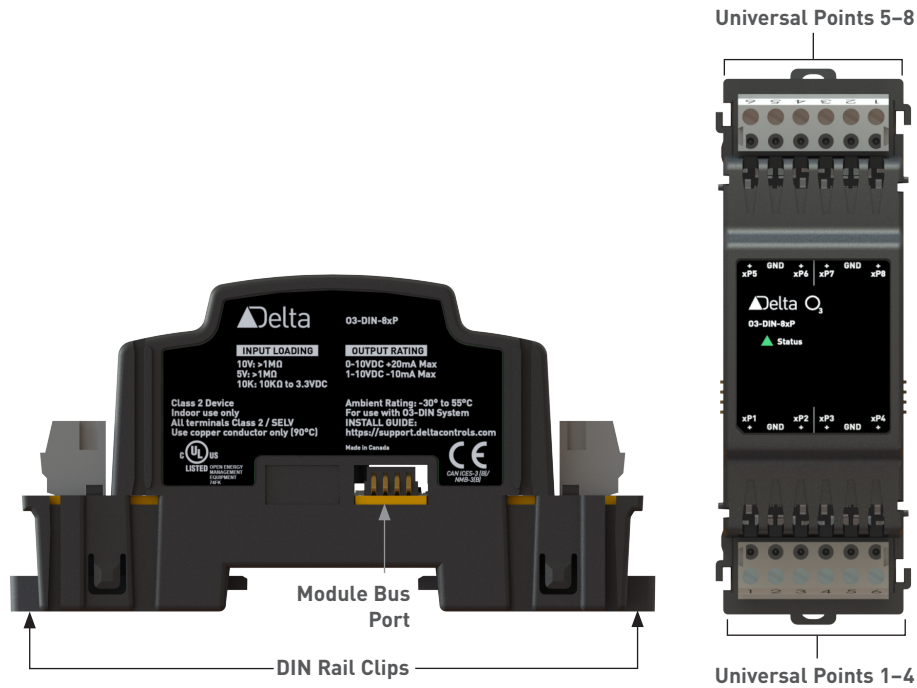
Weight
72.9 g (0.161 lb)

Compliance
CE
FCC
EAC

Listings
C-UL Listed
UL 916 Listed

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Universal Points 5–8

Universal Points 1–4

Module Bus Port

DIN Rail Clips

Order an O3-DIN system base unit with one or more modules or hubs:

Base Units

O3-DIN-CPU	CPU base unit: 3 network ports, 2 Ethernet ports, 3 power outputs, Modbus RTU, NFC
O3-DIN-SRC	CPU base unit: 2 network ports, 2 Ethernet ports, 1 power output, Modbus RTU, NFC

Modules and Hubs

O3-DIN-8xP	I/O module: 8 universal I/O, input (0–10 V, 0–5 V, 10K) or output (20 mA source, 10 mA sink)
O3-DIN-4F4xP	FET I/O module: 4 universal I/O, 4 FET binary outputs
O3-DIN-ACCESS	Access module, single door support
O3-DIN-DALI	DALI lighting module: DALI interface, 100 mA power output
O3-DIN-PoE	Power over Ethernet module
O3-DIN-PWRINJ	Power injector module for O3 expansion
O3-DIN-SMI	SMI module for motorized blinds: SMI interface, 30 mA power output
O3-HUB	Sensor hub (temperature, humidity, light, motion, Bluetooth, LED ring, microphone and speaker) with mounting plate
O3-HUB-En868	Sensor hub (temperature, humidity, light, motion, Bluetooth, EnOcean 868 MHz, LED ring, microphone and speaker) with mounting plate
O3-HUB-En902	Sensor hub (temperature, humidity, light, motion, Bluetooth, EnOcean 902 MHz, LED ring, microphone and speaker) with mounting plate

Subject to change without notice.

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Power Supplies

DRC-24V30W1AZ	Chrome Line Voltage DC power supply 24 V 30 W Class A EMC
DRC-24V60W1AZ	Chrome Line Voltage DC power supply 24 V 60 W Class A EMC
DRC-24V100W1AZ	Chrome Line Voltage DC power supply 24 V 100 W Class A EMC
DRS-24V30W1NZ	Sync Line Voltage DC power supply 24 V 30 W Class B EMC
DRS-24V50W1NZ	Sync Line Voltage DC power supply 24 V 50 W Class B EMC
DRS-24V100W1NZ	Sync Line Voltage DC power supply 24 V 100 W Class B EMC