enteliBUS™

I/O Modules: eBM-D400R4

Description

The eBM-D400R4 is an enteliBUS™ I/O Expansion Module with 4 digital inputs and 4 relay outputs with optional monitored overrides. Auto detecting and hot swappable I/O Modules are selected to create the exact I/O combination needed for a given application. Should the application require the system to expand in the future, I/O expansion is easy to add.

eBM-400R4-H

Application

The enteliBUS Control System is made up of multiple modular components that you select to meet the exact needs of a wide range of HVAC and Access control applications.

The enteliBUS I/O Modules provide the field I/O interface for the enteliBUS Control System. With I/O Modules supporting all common control types this allows the controller I/O mix to be easily and efficiently tailored to fit any application.

Features

— Auto detecting & hot swappable

— 24V (AC or DC) digital inputs. Module supplies input power simplifying wiring to dry contacts. Input power is fused and monitored

— Tri color LED status indication of each input state, with jumper selectable behavior for input LED action (NO/NC) and color (red, green or yellow)

— Relay outputs for switching 24V AC or DC loads. Internal power jumper option simplifies field wiring. Internal power is fused and monitored

— 3 position (HAO) monitored output override switches (optional).

— Tri color LED status indication of each output state

— Small footprint, DIN rail mountable

— Modular design provides flexibility, ease of service, and reduced cost for future upgrades/expansion

Specifications

Inputs
4 Digital Inputs:
- 24VDC: IEC61131-2 Type 1/3
    - Off: 5.0VDC max
    - On: 11.0VDC min
- 24VAC: 14KΩ typical loading
    - Off: 5.0VAC max
    - On: 18.0VAC min

Tri color LED status indication of each input with jumper selectable behavior for input LED action and color:

LED Action jumper options
- CLS: LED ON when contact closed
- OPN: LED ON when contact opened

LED Color jumper options
- GRN: LED ON color = Green
- RED: LED ON color = Red
- GRN + RED: LED ON color = Yellow

Outputs
4 Relay Outputs (SPST N/O):
- 24V (AC or DC) at 0.5 Amp maximum per output*
- Jumper configurable for internal* or external power
- 3 position (HAO) monitored override switches (optional)
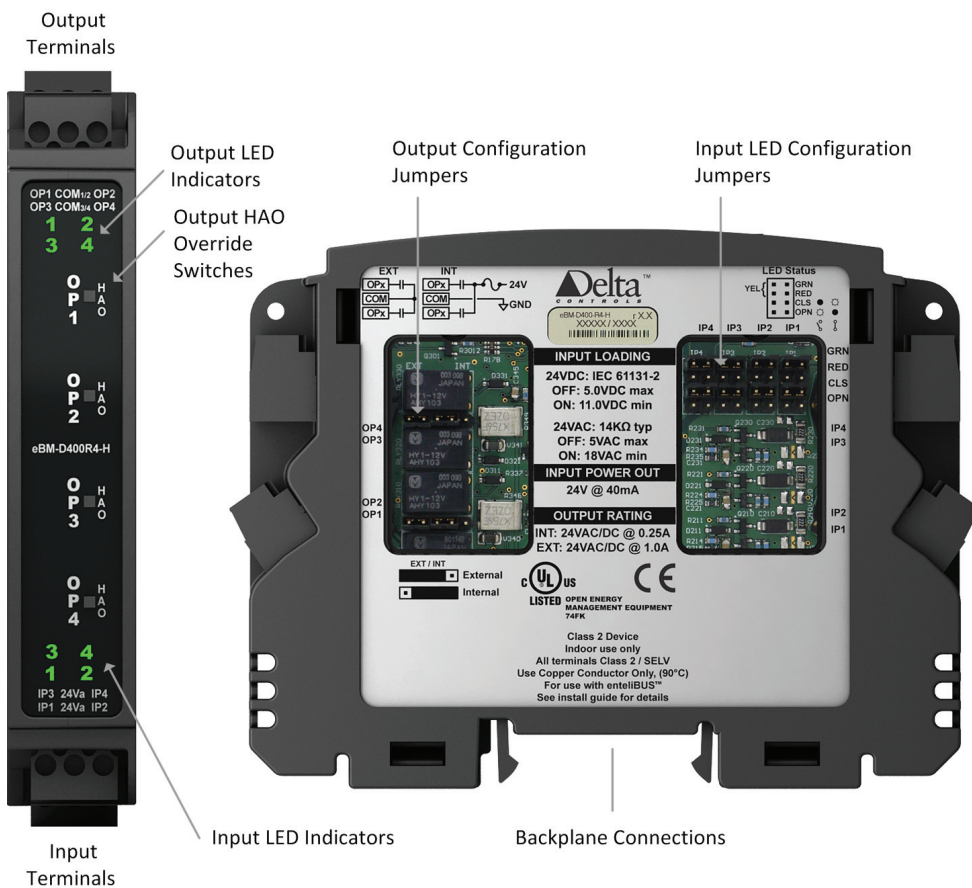
* 0.25A maximum per output when switching internal power

Tri color LED status indication of each output:

Auto Off = Black
Auto On = Green
Manual Off = Red
Manual On (Hand) = Yellow

Connectors
3 Pin removable screw-type terminal connectors

Do it right.

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eBM-D400R4-H: Board Layout Diagram

Output Terminals

Output LED Indicators

Output HAO Override Switches

Output Configuration Jumpers

Input LED Configuration Jumpers

Input LED Indicators

Backplane Connections

Input Terminals

Specifications (Continued)

Wiring Class
Class 2 / SELV

Power
24VAC/DC
5VA, 27VA max. with fully loaded outputs*

*I/O Module power is supplied from an eBX or eBCON through the backplane.

Ambient
0° to 55°C (32° to 131°F)
10 - 95% RH (non-condensing)

Dimensions
12.6 x 2.3 x 10 cm (5.0 x 0.9 x 4.0")

Mounting
Snap mounts to enteliBUS Backplane & DIN rail assembly

Enclosure Protection Rating
IP30

Compliance
CE
FCC

Listings
UL 916

Ordering

eBM-D400R4	enteliBUS I/O Module - 4x digital inputs & 4x relay outputs
eBM-D400R4-H	enteliBUS I/O Module - 4x digital inputs & 4x relay outputs w/ 3 position (HAO) override switches

Accessories

(See enteliBUS Parts List for a complete list of all available enteliBUS modules and accessories)

eBX-04	enteliBUS Expander – I/O Expander with 4 slot Expander Backplane
eBX-08	enteliBUS Expander – I/O Expander with 8 slot Expander Backplane
eBCON	enteliBUS Controller – Compact CPU/Comm. module with 4 slot Controller Backplane

Subject to change without notice.

Do it right.