enteliBUS®

I/O Modules: eBM-404

Description
The eBM-404 I/O module has 4 universal inputs and 4 24 VAC TRIAC 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. When there is a need for the system to expand in the future, I/O expansion is easy to add using these modules.

Features
▶ Universal inputs (jumper configurable)

▶ 0-100% LED status indication of each input state

▶ 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 and expansions.

Application
The enteliBUS Control System is a fully programmable native BACnet® control platform. It is scalable and therefore cost-effective over a wide range of applications, from low-density distributed control to high-density centralized I/O applications.

Used together with an eBMGR or eBCON automation engine, the combination of different enteliBUS I/O modules is designed to support all typical input and output needs. This allows the controller I/O mix to be easily and efficiently tailored to fit any application.

Specifications

Inputs
4 Universal Inputs (12-bit), jumper configurable for:
- 0-5 VDC
- 0-10 VDC
- 10 kΩ Thermistor
- Dry Contact (using 10 kΩ Thermistor jumper setting)
- 4-20 mA

Outputs
4 Binary TRIAC Outputs
- 24 VAC @ 0.5 A max per output*
- Leakage current 100 µA, min current 25 mA
- Jumper configurable for internal* or external power
- Optional 3 position (HAO) monitored output override switches

*0.25 A max per output when switching to internal power

Mounting
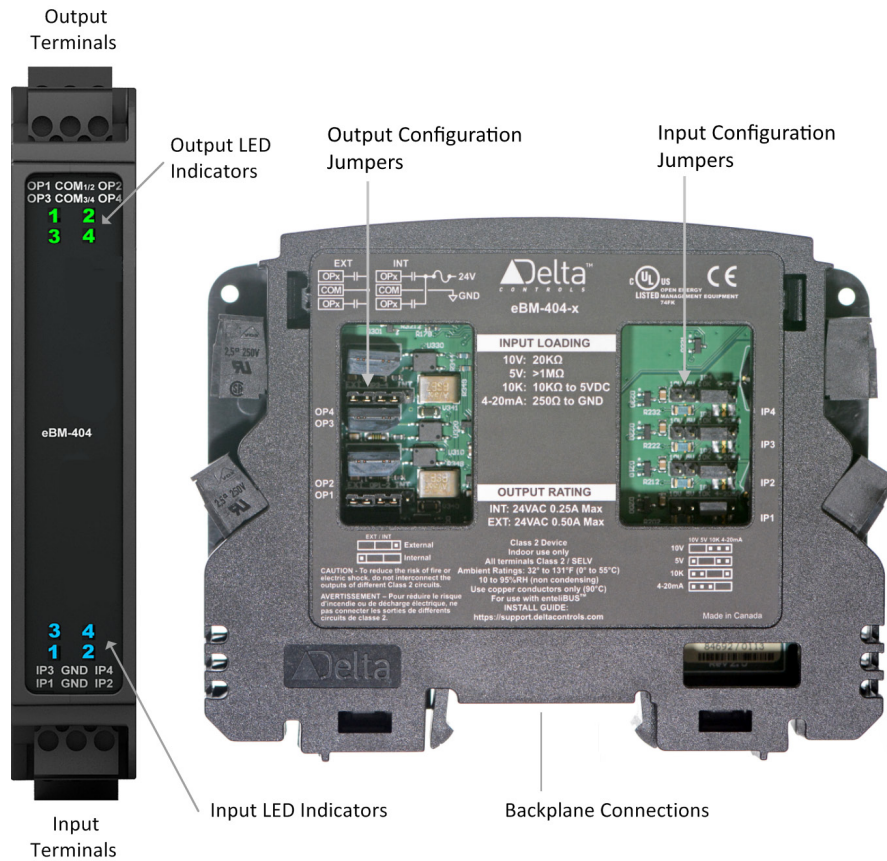Snap mount to enteliBUS backplane and steel 35 mm DIN rail assembly

Connectors
3-pin removable screw-type terminal connectors

Wiring Class
Class 2 / SELV

Delta CONTROLS™

enteliBUS®

eBM-404: Board Layout

Output Terminals

Output LED Indicators

Output Configuration Jumpers

Input Configuration Jumpers

eBM-404

Input LED Indicators

Backplane Connections

Input Terminals

Specifications (Continued)

Power
24 VAC 50/60 Hz @ 5 VA, 27 VA max with fully loaded outputs**

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

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

Dimensions
5.0 x 0.9 x 4.0 in. (12.6 x 2.3 x 10 cm)

Weight
0.273 lb (124 g)

Enclosure Protection Rating
IP30

Compliance
CE
FCC

Listings
UL 916 Listed
UL 864 Listed for UL 864 product numbers

Ordering
Order the eBM-404 according to the following product numbers:

eBM-404	enteliBUS I/O Module with 4 universal inputs and 4 24 VAC TRIAC outputs
eBM-404-H	enteliBUS I/O Module with 4 universal inputs, 4 24 VAC TRIAC outputs and 3 position (HAO) override switches
eBM-404-UL864-340	eBM-404 with UL 864 listing

Accessories
See the 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 with 4-slot controller backplane‡
eBMGR	enteliBUS Manager — CPU / Comm. module‡

‡ UL 864 versions available

Subject to change without notice.

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CONTROLS