Elpas 6x6 Input/Output Module
For P/N: 5-IOB00485-1 (IP Version)

Wiring Guide

Introduction

This wiring guide provides basic instructions for common Elpas I/O Module (IP Version) installation scenarios.

Note: VT is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Product Description

The Elpas 6x6 I/O Module (IP Version) has six supervised inputs for monitoring alarm sensors and six relay outputs that actuate local output devices plus a RJ-45 connector for Ethernet connection.
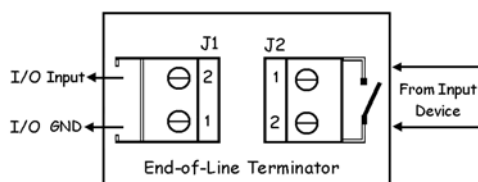
The I/O can deliver up to 100Amp of 12Vdc output current via a dedicated terminal block and also contains a two-position fixed terminal block for powering the device locally.

Circuit Board Terminal Blocks

Ethernet Interface: The I/O has a female RJ-45 (8P8C) connector for linking the device via Ethernet to the host application machine.

Tamper Switch: The I/O Module contains a tamper switch that when pressed, generates a 'State' message for registering the device in the host application. Once registered, the tamper switch indicates non-authorized attempts to remove the device's cover.
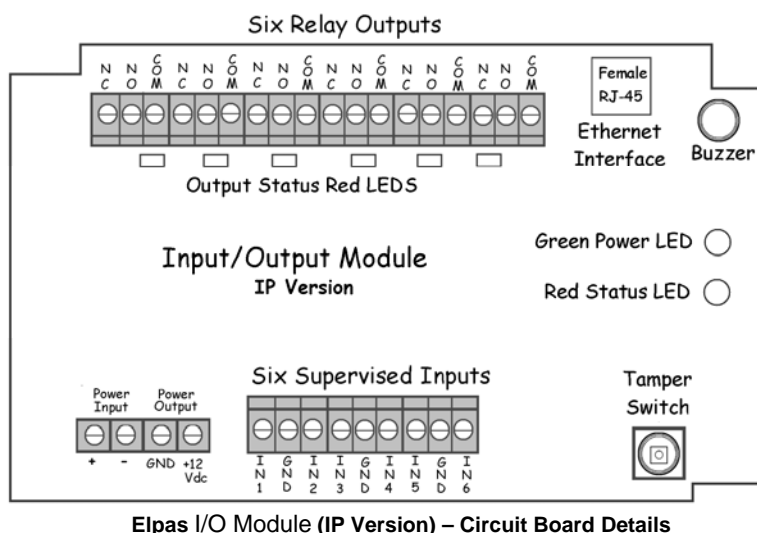
Supervised Inputs: The I/O Module has six supervised inputs (3 three-position removable terminal blocks). EOL supervision may be added to any of the inputs to detect: Open, Close, Line Cut and Line Short circuit conditions using Elpas End-of-Line Terminators (P/N: 5-IOX00001),

Recommended Cable: 22 AWG, unshielded/twisted pair

Output Relays: The I/O Module has six three-position removable terminal blocks for wring six digital relay outputs (10A Max).

Recommended Cable: 22 AWG, unshielded/twisted pair.

Elpas I/O Module **(IP Version) – Circuit Board Details**

IMPORTANT: The I/O Module **MUST BE** powered-down while wiring the unit's I/Os and when connecting to the RS-485 BUS. This will prevent accidental shorts/spikes to cause damage to the device

Input/Output Power

Power Input: The I/O Module has a two position terminal block for powering the device locally (target 150mA @ 24Vdc).

Recommended Cable: 22 AWG, unshielded/twisted pair.

Power Output: The I/O Module has a two position terminal block for powering 12Vdc (100mA Max) external devices.

Recommended Cable: 22 AWG, unshielded/twisted pair.

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