The P-Linc is Smarteye's answer to the need for a fast, simple and economical means of interfacing its Smarteye Reader System to any programmable controller. Smarteye designed the P-Linc as a stand alone version of its routing and tracking communications module to efficiently support large numbers of readers using a single control interface. The P-Linc can support up to eight (8) Smarteye Control Units, for a maximum of 64 Smarteye Readers, in a multi-drop configuration over a single serial line. The P-Linc continuously communicates with all control units attached to this line, converting all reader information into 24VDC parallel format for direct wiring to PLC I/O. Additionally, the P-Linc provides an auxiliary serial port to allow monitoring of reader system operation and display of diagnostic data.

Models #SP2004/02

Product Features

Built-in 24VDC parallel interface

Auxiliary port for diagnostic purposes

Supports up to eight (8) Control Units
- SEA-8's or Twins

Single printed circuit board
- Incorporates CPU, optical isolator circuitry, and wiring terminals

Parallel port I/O
- 28 bits total: 26 outputs and 2 inputs
- 26 outputs consist of: 16 data bits, 6 reader bits, 2 data ready bits, 1 parity bit and 1 label or error bit
- 2 inputs are data acknowledge bits
- Data and reader bits can be binary or BCD
- I/O is 24VDC true high, optically isolated
- LED's for data ready and data acknowledge
- Plug-in screw terminal connections

Serial port
- RS485
- 9600 baud
- No parity
- Jumpers for line termination and passive biasing
- Transmit and receive LED's
- Plug-in screw terminal connections

Auxiliary serial port
- RS423
- 9600 baud
- No parity
- Jumpers for simple line termination
- 3 monitoring modes: parallel port, control port receive, control port transmit
- 9-pin D-type connector

Serial Port
- RS485 (Up to 4000' point-to-point or multi-drop)
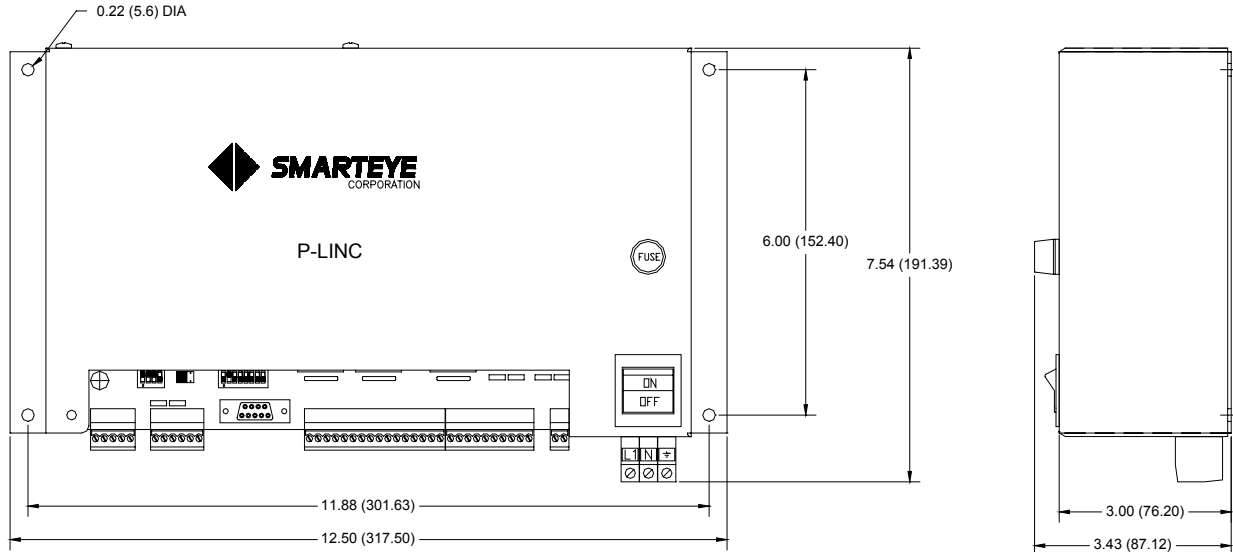
Auxiliary Serial Port
- RS423 (Up to 2000' point-to-point only)

Power Requirements
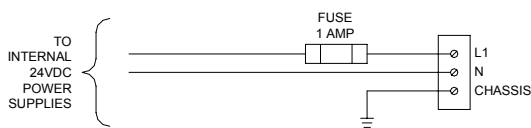- 100-240VAC, 50-60Hz, 48W @ 120VAC
- Screw terminal connections

Environmental Specifications
- Operating temperature: 0-50 ˚C
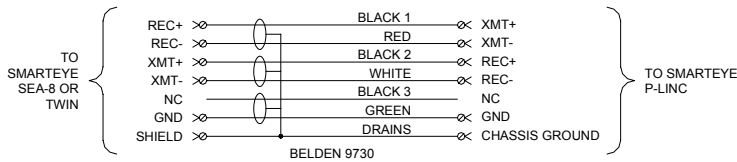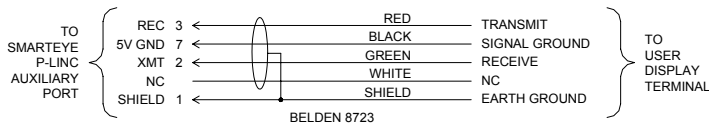- Humidity: 95% non-condensing

Electrical Interconnections

AC POWER INPUT

SERIAL PORT

AUXILIARY PORT

PARALLEL CONTROL PORT