



## Specifications

Power Requirements	5.0–5.2 VDC at 750 mA maximum (does not include module power requirements)
Operating Temperature	0 to 60 °C
Storage Temperature	-40 to 85 °C
Humidity	0–95% humidity, non-condensing
Communications Interface	RS-485, 2- or 4-wire, twisted pair(s), with shield
Data Rates	300 baud to 230.4 Kbaud
Range: Multidrop	32 stations maximum between repeaters; up to 3000 ft (914 m) between repeaters
LED indicators	SERIAL (transmit/receive), STAT (brain status), IRQ (interrupt)
Options: Switch Selectable	Address Baud rate Binary/ASCII CRC/Checksum

## Mistic Functions

Digital	Analog
Input latching (10 µsec)	PID loop control
Timing (1 msec resolution)	High/Low limit monitoring
Counting (32 bit)	Thermocouple linearization
Totalizing	Digital filtering
Output timing (1 msec resolution)	Ramping
Pulse generation (1 msec resolution)	Waveform generation
Time proportional output (100 msec minimum period)	Programmable offset and gain
Frequency measurement (up to 20 KHz)	Engineering unit scaling
Event reactions	Square root extraction
Pulse measurement	Event reactions
Period measurement	

Notes:

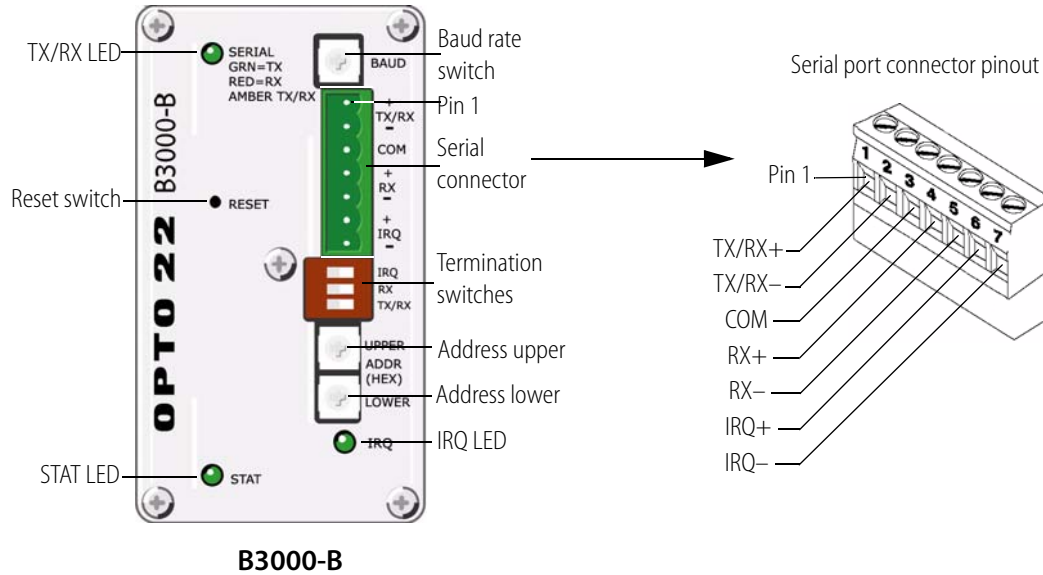
1. PID loops do not cross address boundaries.
2. PID loops can only be configured on analog addresses.  
There is a maximum of 8 PID loops per analog address.
3. Event reactions do not cross address boundaries.

# B3000-B Serial Brain

## LEDs, Switches, and Serial Connector

The LEDs on the top of a B3000-B brain indicate status conditions. For example, the STAT LED blink codes provide useful information during operation and in troubleshooting.

The faceplate's switches allow you to configure the brain's baud rate, termination, and address.



## Comparison of Dimensions

The B3000-B is 0.66 inches (16.64 mm) taller than the B3000.

