L5202 Digital I/O Module

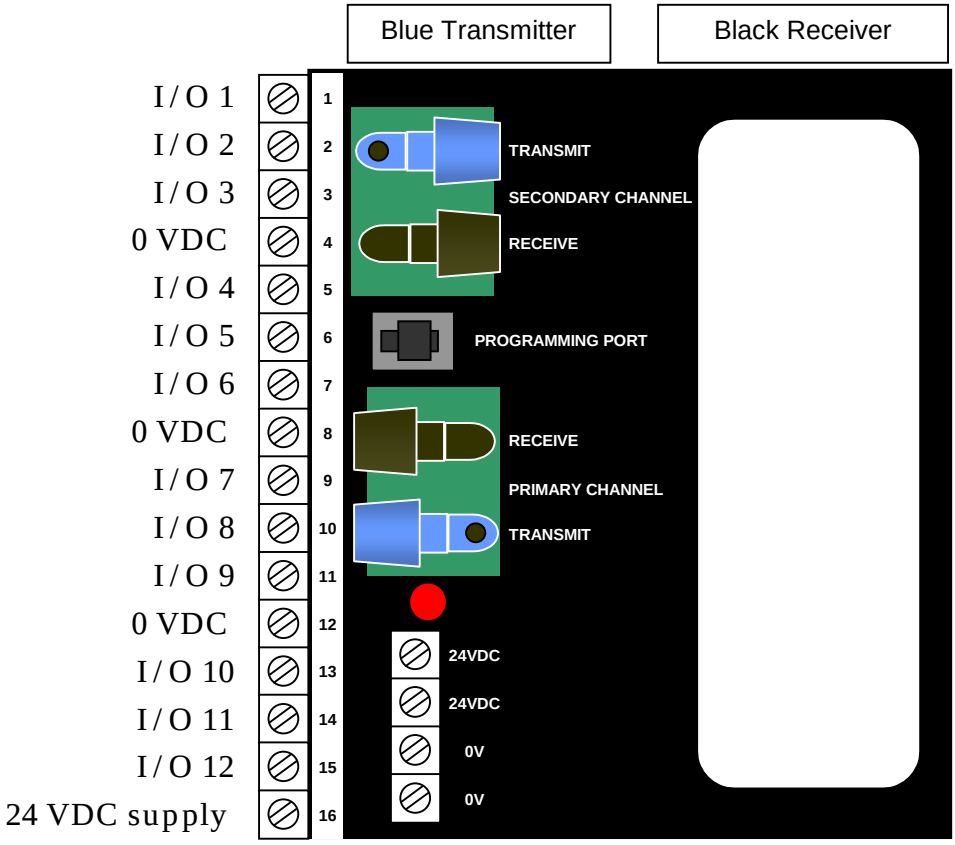
GENERAL DESCRIPTION

The L5202 *SSD LINK* Digital I/O Module is an intelligent device providing 12 digital I/O points for use with 24 VDC logic.

In input mode, the I/O terminals provide a 6mA pull-up current. In output mode, each I/O terminal sources 6 mA when high and sinks up to 90 mA when low.

The L5202 can measure frequency and count events on terminal I/O 1. Refer to *SSD LINK* Application Note HR351009 for notes on using the frequency input.

The L5202 *LINK* Digital I/O Module may be configured to perform a wide variety of control processing functions (including relay logic replacement, timing, counting, complex sequencing, etc). Information from the module is available to other modules in the SSD *LINK* system.



NOTE

This module has the new insert and twist fiber optic terminals that do not require any connectors. Cut off the end of the fiber using termination kit LA385204, insert into the terminal, twist and tighten.

WARNING

If retrofitting an old LINK 1 module: The primary channel terminals now face downward and the secondary channel terminals face upward. This orientation is opposite to that of the old red and black T&B terminals.

TECHNICAL SPECIFICATIONS

Environmental		
Temperature	0 – 50 °C	
Humidity	90% non-condensing	Note 1
Power Supply		
Voltage	20 – 28 VDC (24 V nominal)	
Module Current	150 mA max	
Pullup Supply Curr.	100 mA max	Note 2
Input Mode		
Low input	4.5 V max	
High input	16.5 V min	Note 3
Type	Current source pull-up	Note 2
Source current	5 mA min	
Output Mode (High)		
Voltage	20 V min	Note 2
Source current	5 mA min	
Output Mode (Low)		
Voltage	2.1 V max	Note 2
Sink current	90 mA max	
Fastest Scan time	1 ms	Note 4
Frequency Counter Input		
Input Frequency	65 kHz max.	
Low voltage	1.7 V max (0 V nominal)	
High voltage	3.0 V min (5 V nominal)	Note 5
Duty Cycle	50% nominal	
Fiber optics		
Transmit Length	Maximum 20 meters (66 feet)	
Intensity Range	-13 dBm to –27 dBm	

Note 1 .....Not applicable.

Note 2.....Note that 24 VDC must be ***supplied*** to terminal 16.

Note 3.....The absolute maximum voltage that may be applied to any terminal is 28 V.

Note 4.....Effective scan time is constrained by software execution time.

Note 5.....High voltage for frequency input may rise to 28 V without damaging hardware.