

Models 8501, 8502

Two Channel TTL/24V & 24V/TTL Converters

Model 8501 is a two channel converter, 5V to 24V. The two independent channels require 7mA into 382 ohms to provide a 7 mA output into the 3K, 24 volt typical PLC logic inputs. They may be driven by standard or H series TTL logic, or with an open collector NPN transistor. Note that low power TTL logic will not drive this unit. The output is a floating optocoupler NPN transistor which may be connected in either source or sink configuration. The input frequency range is DC to 15KHz.

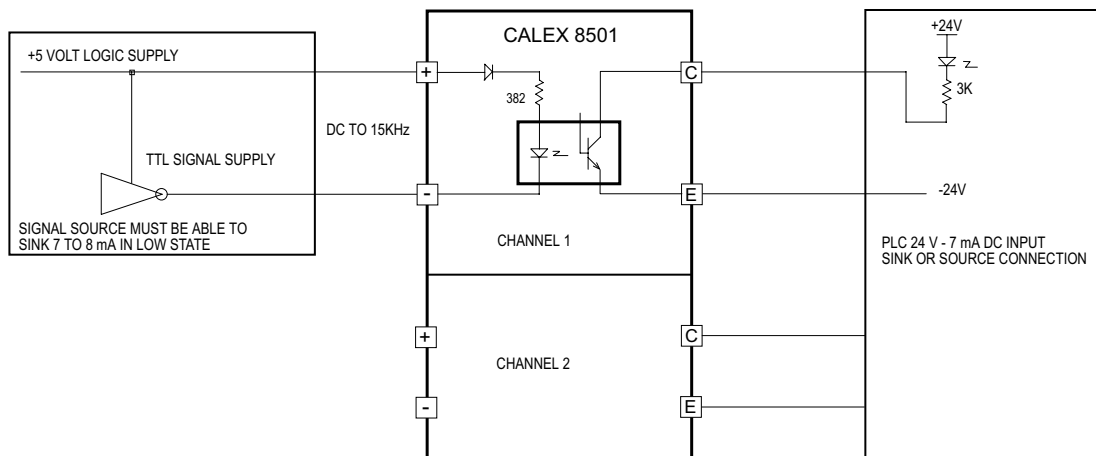
Model 8502 is a two channel converter, 24V to 5V. Each channel requires 7mA into 2.5K ohms to provide a 5 mA

sinking output to TTL 5 Volt Logic. The output is an optocoupler NPN transistor collector and requires the 5 Volt logic supply and its return. The input frequency range is DC to 20KHz.

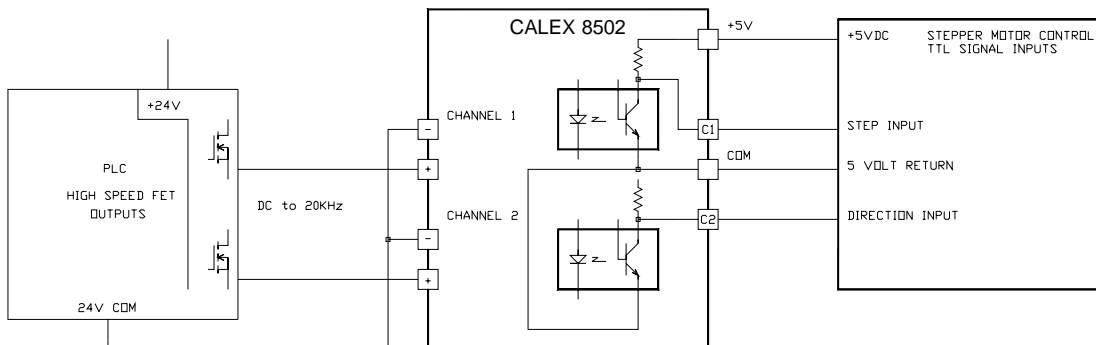
A typical application is the direction and step control of a Stepper Motor by PLC 24 Volt high speed outputs, where the motor controller requires 5 Volt logic signal levels.

The inputs are isolated by optocouplers and are protected from ESD by Varistors. The 2 outputs have a common emitter with each output collector capable of sinking a minimum of 5 mA.

MODEL 8501
TTL 5 VOLT LOGIC TO PLC 24 VOLT INPUT



MODEL 8502
PLC 24 VOLT PULSE OUTPUT TO TTL 5 VOLT LOGIC



Model	8501	8502
Input Signal Voltage	4.5 Volts Minimum 10 Volts Maximum	22 Volts Minimum 30 Volts Maximum
Input Resistance	382 Ohms Typical	2.5 K Ohms Typical
Input Frequency	DC to 15 KHz	DC to 20 KHz
Output Current	6 mA Minimum 15 mA Maximum	5 mA Minimum Output is Inverted
Output Source Voltage	Off State 30 Volts Maximum	5 Volt Logic Supply 7 Volts Maximum
Environment		
Operating	0°C to +55°C	
Storage	-40°C to +80°C	
Size	1.65"H x 1.06"W x 3.78"L (42 x 27 x 96 mm)	
Weight	5 oz. (142 grams)	
Agency Approvals (pending)	UL 508, UL 1604	