



Description

The model 5500 isolator provides electrical isolation of mA command signals to Control Concepts, Inc. controllers.

Features

ISOLATION

The circuit isolates the mA input current and associated circuitry from the voltage output.

SELF POWERED

The input circuit of the 5500 isolator circuit is powered by the 4/20 mA command signal.

The output circuit of the 5500 isolator circuit is powered by the 5 Vdc supply on the board it plugs into.

DIRECT PLUG-IN

The 5500 isolator plugs directly into the command signal connector on certain Control Concepts, Inc. controllers.

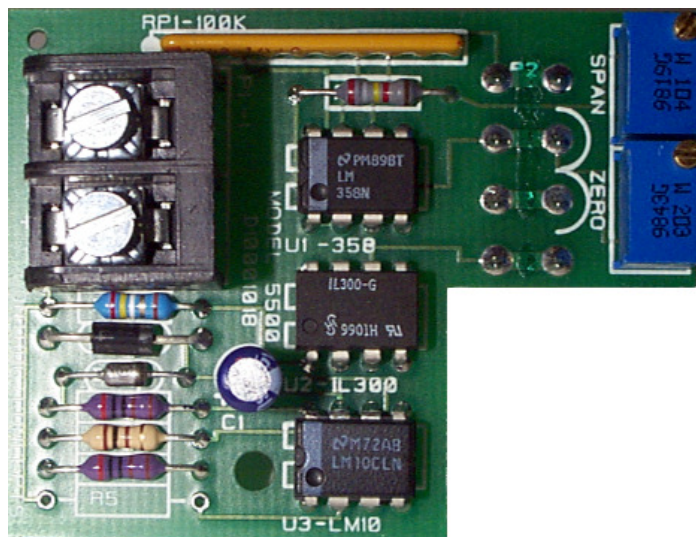
DESIGN

The 5500 isolator is designed to comply with standards established by Underwriters Laboratories.

How to Order

5500-(XX/XX)mA-0/5V-(CCCC)(F)

5500 = The basic model number;
(XX/XX)mA = The milliamp input range. (Usually 4/20mA)
 Other ranges may be available, consult factory.
(0/5)V = The output signal.
 Other ranges may be available, consult factory.
(CCCC) = Specifies the firing circuit the 5500 isolator is to be used with; 1021A, 1021B, 1022 or 1032.
(F) = Specifies the 5500 board is to be field installed.



Specifications

INPUT:

4 to 20 mA standard.
 Other inputs may be available; 4/12 mA, 12/20 mA, etc. Minimum current must be 4 mA or greater.
 Contact factory for details.

INPUT IMPEDANCE:

Approximately 300 ohms.
 Compliance 6 Vdc max.

OUTPUT:

0 to 5 Vdc proportional to input command.

MAXIMUM OUTPUT CURRENT:

5 milliamps.

LINEARITY:

The mA signal conversion to voltage signal is linear within 2 percent of Span.

ADJUSTMENTS:

Multiple turn pots control the Zero and Span.

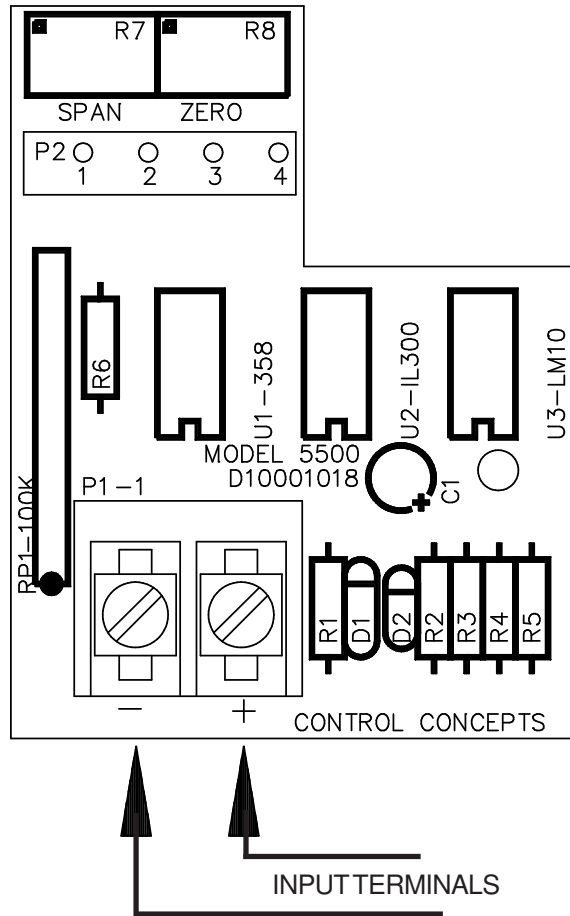
ELECTRICAL ISOLATION:

1500 Volts Peak.

ENVIRONMENTAL:

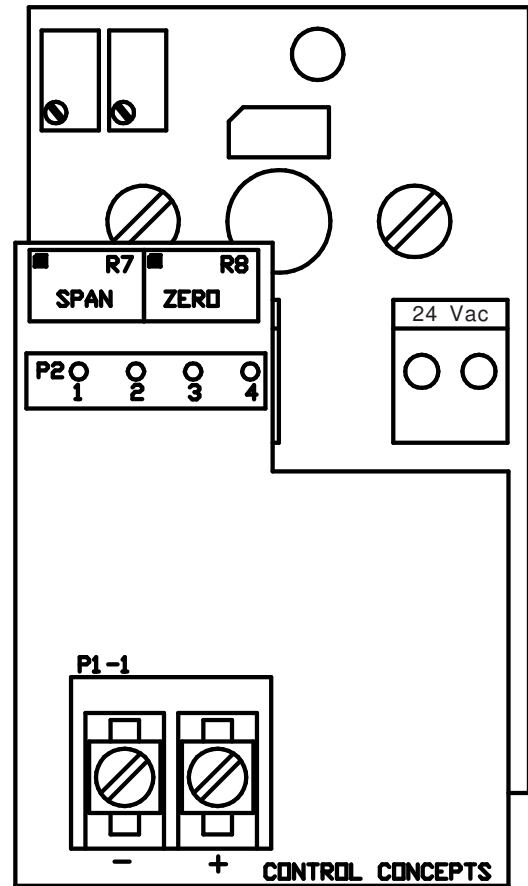
Operating temperature: 0 to 55 °C
 Storage temperature: -40 to 55 °C
 Humidity: 95% max. Non-condensing.

Board Layout

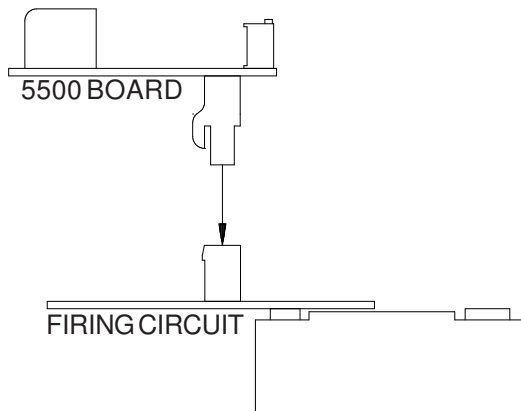


5500 CIRCUIT BOARD LAYOUT SHOWING INPUT TERMINALS AND ADJUSTMENTS

Typical Installation



5500 Board on a 1021A or 1022 firing circuit.



ATTACHING A 5500 CIRCUIT BOARD TO A FIRING CIRCUIT

Manufactured by



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