

# IsoVerter®II

## Models SCL4130

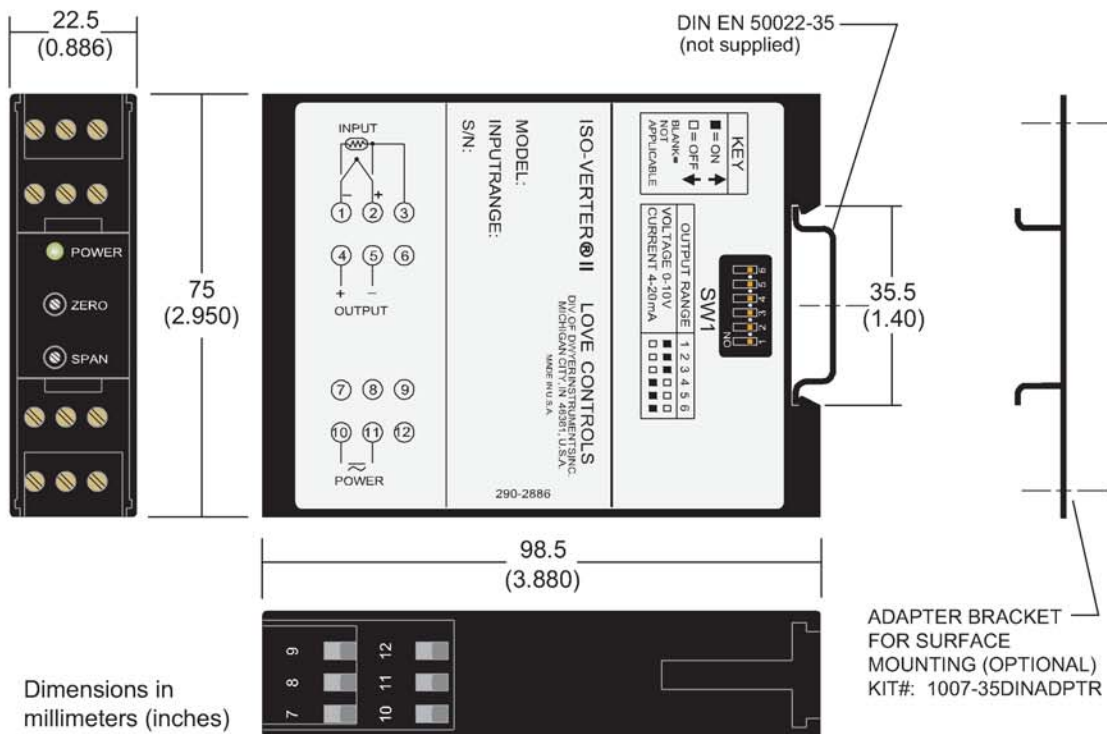
### INSTALLATION INSTRUCTIONS

#### Getting Started

- 1.) Using a small screwdriver, ball point pen, etc. set the Output Switch (SW-1) on the side of the unit (see Output Programming on page 2).
- 2.) Mount unit into panel. (see Mounting on page 2).
- 3.) Connect unit to input signal, output signal, and power wiring (see Wiring on page 3).
- 4.) Check calibration (See Calibration on page 3).

Specifications are on page 4.

#### Dimensions



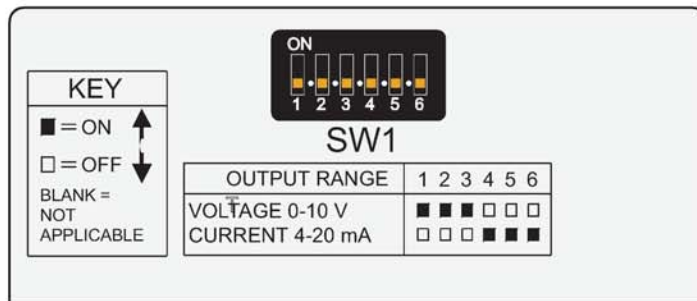
## LOVE CONTROLS

a Division of Dwyer Instruments, Incorporated  
 PO Box 338 ○ Michigan City, IN 46361-0338  
 (800) 828-4588 ○ (219) 879-8000 ○ FAX (219) 872-9057  
[www.love-controls.com](http://www.love-controls.com)

## Output Programming

### MODE SELECTION SWITCH BANK (SW-1)

For CURRENT OUTPUT (4 to 20 mADC) turn switches one, two, and three OFF and switches four, five, and six ON



**WARNING: Do not attempt to operate this device with the cover removed. Potentially lethal voltage is present on some of the internal components. Do not open the unit. There are no internal adjustments or user serviceable parts in the unit.**

### Mounting

Mount the unit in a panel that will not be subject to excessive temperature, shock, or vibration. All models are designed for mounting on an industry standard 35 mm DIN rail. An optional surface mounting kit is available from the factory (P/N 35DINADPTR).

To install hold the SCL4130 so that the front is higher than the rear. Place the upper slot on the rear of the SCL4130 on the top edge of the DIN rail. Slowly rotate the front down until the bottom spring clip snaps over the bottom edge of the DIN rail.

To remove from the DIN rail, place a small slotted screwdriver in the slot in the spring clip under the housing. Pry the slot downward to release the SCL4130 from the bottom of the rail.

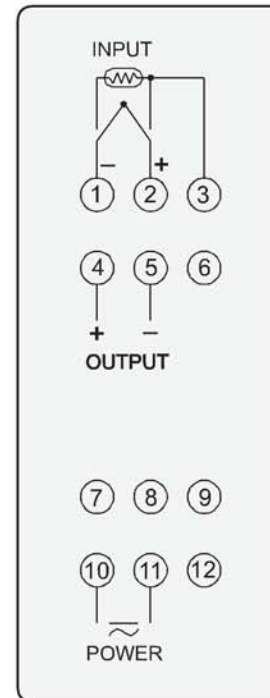


Slot

## Wiring

The wiring terminals for the SCL4130 are compression type. To open the wiring terminal, turn the screw for that terminal counterclockwise. Slide the wire into the terminal space. While holding the wire in place, turn the screw clockwise to tighten. Do not overtighten. The wire should be held snugly in place.

For the SCL4130 wire the thermocouple to terminals 1 (negative / red wire) and 2 (positive).



Power for SCL4130 is 12 to 24 Vdc/Vac 50 to 400 Hz.

Wire the input, output, and power as shown on the wiring label. **Do not run Class 2 signal wires adjacent to or in the same conduit as power wires.**

## Calibration

The SC4130, SCL4130, SC4151, and SCL4151 are calibrated at the factory for correct output for the range selected. For field calibration follow the following procedure.

1. Apply the appropriate input (millivolts for the SC4130/SCL4130, ohms for the SC4151/SCL4151) for the low end of the scale.
2. Adjust the ZERO screw for the appropriate low end output.
3. Apply the appropriate input for the high end of the scale.
4. Adjust the SPAN screw for the appropriate high end output.
5. Repeat as necessary.

## Specifications

### Power Supply:

**SCL4130:** 12 to 24 Vdc/Vac 50 to 400 Hz.  $\pm 20\%$

**Isolation:** 1500 VAC

### Ambient Temperature Range:

**Operating:** 0° to 50° C (32° to 131° F)

**Storage:** -40° to +80° C (-40° to +176° F)

**Humidity Conditions:** 0 to 90% rh up to 40°C non-condensing, 10 to 50% rh at 55°C non-condensing.

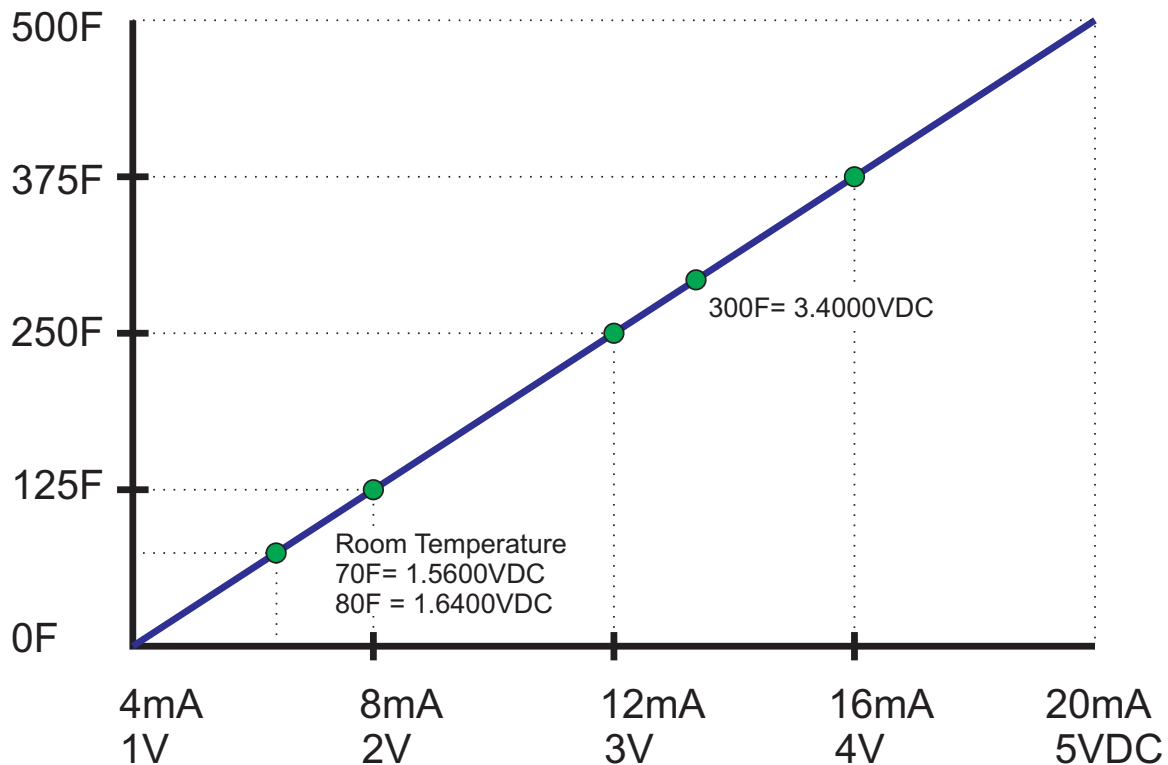
**Linearity:** 0.25%

**Drift:**  $\pm 0.02\%$  per °C typical,  $\pm 0.05\%$  maximum.

**Maximum current output load:** 600 ohms.

**Maximum voltage output load:** 20mA (500 ohms).

**Input impedance - SCL4130 - thermocouple:** 1 Megohm.



© COPYRIGHT 1997, 2000 DWYER INSTRUMENTS, INC., ALL RIGHTS RESERVED  
PRINTED IN U.S.A.



## LOVE CONTROLS

a Division of Dwyer Instruments, Incorporated  
PO Box 338 ○ Michigan City, IN 46361-0338  
(800) 828-4588 ○ (219) 879-8000 ○ FAX (219) 872-9057  
www.love-controls.com

June, 2000

Page 4 of 4

949-0528-2