SC420TWHL

mA and Voltage Input Isolating Terminals





The SC420TWHL series of isolating terminal blocks can replace standard DIN-Rail terminal to provide input isolation, signal conversion and excellent RFI and noise

The units are powered from the output side,

making them ideal for plc and data

acquisition applications.

Input Options

Replace Standard DIN-Rail Terminals

RFI Protection, Input Isolation

- **Voltage or Current Inputs**
- Simple 2 Wire 4-20mA Output
- Loop Powered Output Gives High Noise Immunity
- Low Cost Solution

The range of inputs for the SC420TWHL are as follows:-

Standard Ranges are 4-20mA, 0-20mA, 0-10V and 1-5V.

But the unit can cover the following ranges:-

Input Types	Input Range MIN	Input Range MAX
DC Current	0 - 100μΑ	0 - 5 A
DC Voltage	0 - 100mV	0 - 100 V

Technical Specifications Max **Parameter** Min Typ Comments Supply Voltage 10V 24V 32V Powered from Output Side Input Current 0mA 0-20mA 30mA Full Scale Volt Drop 0.2V 0.3V On Input Side (20mA Input) Input Impedance (Volt In) 1ΜΩ Voltage Input Input Impedance (mA In) 10ΜΩ mA Input **Output Linearity Error** $\pm 0.1\%$ Temp Coefficient 100ppm/°C Load Resistance Error $0 < RL < 600 \Omega$ ± 5 ppm/ Ω Time Constant (10-90%) 30ms 300ms for Thermocouple Input **Operating Ambient** -15°C 70°C Relative Humidity 0% 90% Isolation Voltage 1kV Surge Voltage 2.5kV for 50µSTransient of 10kV/µS **Notes** Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur.

Device is protected against reverse polarity connection. Accuracy figures based on 0-20mA input, 250 Ω load resistance, and an ambient temperature of 20°C.

Inputs for the SC420TWHL include mA or Voltage and other units are available with thermocouple, mV or RTD inputs. The standard output is 4-20mA.

The SC420TWHL units are housed in ultracompact DIN-rail mounted enclosures just

Installation Data

18mm wide.

rejection

Mounting DIN Rail TS35

Orientation

Screw Clamp with pressure plate Connections

Conductor Size 0.5 - 4.0 mmInsulation Stripping 12mm Weight Approx 50g

Ordering Information

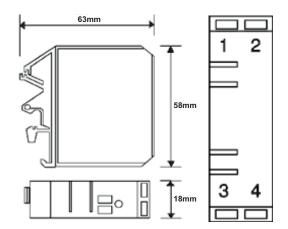
Part No.: SC420TWHL 4-20mA In 4-20mA Out

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ISO9001CERTIFIED

SC420TWHL 2017



Connection Details 1. Output Channel +ve Output Channel -ve Input Channel +ve 4. Input Channel -ve



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