

## | SC-SLIMCON6

### ISOLATING SIGNAL CONVERTER



The SC-SLIMCON6 Isolating Signal Converter can accept a range of inputs including 4-20mA and voltage signals. The unit produces a high level DC output of either voltage or current.

Full 3 port isolation is standard on the product range.

The SC-SLIMCON6 can be configured to accept a current or voltage input and provides a current or voltage output.

The input and output of the unit can also be reconfigured using the built in switches together with the zero and span adjustment potentiometers.

The unit is powered from 24Vdc nominal.

### Features

- Wide Range of Inputs Available
- Full 3-Port Isolation
- Zero & Span Pots for Output
- Fast Time Response
- High Accuracy, Low Cost
- Only 6.8mm Wide

### Inputs

Standard ranges are shown below :

#### **SC-SLIMCON6 for DC Current & Voltage**

0-20mA, 4-20mA, 0-10mA into 5 $\Omega$ /11 $\Omega$

0-10V, 1-5V, 0-5V, 2-10V into 500k $\Omega$

Bipolar Voltage Input version available, please call.

### Outputs

#### **DC Current and Voltage**

Current source or sink

0-20mA, 4-20mA into 500 $\Omega$

0-10V, 0-5V, 1-5V into a minimum 100k $\Omega$

## Technical

Parameter	Min	Typ	Max	Comments
Supply Voltage	18V	24V	30V	22Vdc required to drive 500Ω
Supply Current (mA)		25	30	Based on 24Vdc supply into 500Ω
Volt Drop (mA input)		0.1	0.15	At 20mA input
Input Impedance (Volt)		500kΩ		
Input Impedance (mA)		5Ω	10Ω	Dep't on range (typ=20mA, max 0-10mA)
Output Linearity Error		±0.03	±0.01%	
Temp Coefficient			±100ppm/°C	
Load Resistance Error			±5ppm/Ω	0 < R <sub>L</sub> < 500Ω
Time Constant (10-90%)		25mS	30mS	Faster response available on request
Operating Ambient	0°C		55°C	
Relative Humidity	0%		90%	
Isolation Voltage*	1kV			
Surge Voltage	2.5kV for 50 μS		Transient 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. External 100mA fuse required. Accuracy figures based on 24Vdc supply, 4-20mA output with 250Ω load and an ambient 20°C.

## Installation Data

<b>Mounting</b>	DIN Rail TS35
<b>Orientation</b>	Any
<b>Connections</b>	Screw Clamp with pressure plate
<b>Conductor Size</b>	0.5-4.0mm
<b>Insulation Stripping</b>	12mm
<b>Weight</b>	Approx 60g

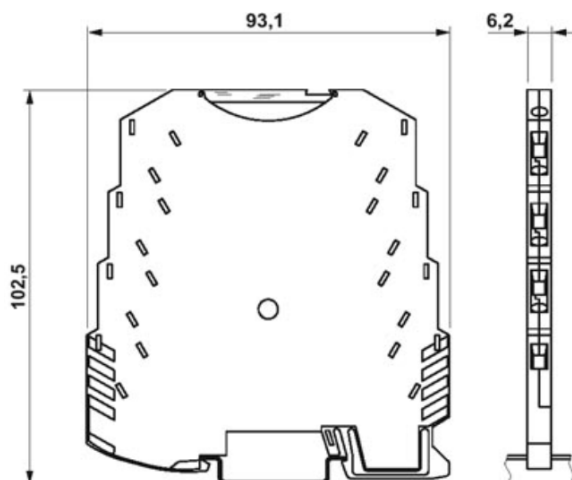
## Connection Details

1. Power Input -ve
2. Power Input +ve
4. Process Input -ve
5. Process Input +ve
10. Output -ve
12. Output +ve



## DIMENSIONS

All dimensions are in millimeters.





Please supply  
**Part Number** SC-SLIMCON6

Made in the UK

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