

| 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 Ω /11 Ω

0-10V, 1-5V, 0-5V, 2-10V into 500k Ω

Bipolar Voltage Input version available, please call.

Outputs

DC Current and Voltage

Current source or sink

0-20mA, 4-20mA into 500 Ω

0-10V, 0-5V, 1-5V into a minimum 100k Ω

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 _L < 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

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

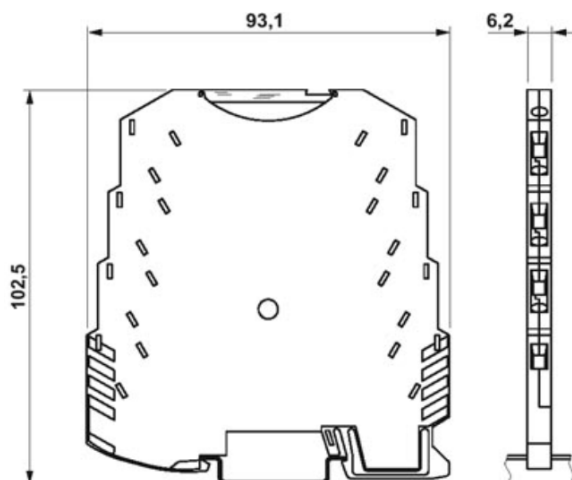
Connection Details

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

Page 3

Sensata Technologies, Inc. ("Sensata") data sheets are solely intended to assist designers ("Buyers") who are developing systems that incorporate Sensata products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, evaluation and judgment in designing Buyer's systems and products. Sensata data sheets have been created using standard laboratory conditions and engineering practices. Sensata has not conducted any testing other than that specifically described in the published documentation for a particular data sheet. Sensata may make corrections, enhancements, improvements and other changes to its data sheets or components without notice.

Buyers are authorized to use Sensata data sheets with the Sensata component(s) identified in each particular data sheet. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER SENSATA INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, IS GRANTED HEREIN. SENSATA DATA SHEETS ARE PROVIDED "AS IS". SENSATA MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE DATA SHEETS OR USE OF THE DATA SHEETS, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. SENSATA DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO SENSATA DATA SHEETS OR USE THEREOF.

All products are sold subject to Sensata's terms and conditions of sale supplied at www.sensata.com SENSATA ASSUMES NO LIABILITY FOR APPLICATIONS ASSISTANCE OR THE DESIGN OF BUYERS' PRODUCTS. BUYER ACKNOWLEDGES AND AGREES THAT IT IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL LEGAL, REGULATORY AND SAFETY-RELATED REQUIREMENTS CONCERNING ITS PRODUCTS, AND ANY USE OF SENSATA COMPONENTS IN ITS APPLICATIONS, NOTWITHSTANDING ANY APPLICATIONS-RELATED INFORMATION OR SUPPORT THAT MAY BE PROVIDED BY SENSATA.

Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

CONTACT US

+44 (0)1202 897969
c3w_sales@sensata.com
Cynergy3 Components Ltd.
7 Cobham Road,
Ferndown Industrial Estate,
Wimborne, Dorset,
BH21 7PE, United Kingdom