SC-ISOSLICE-4

ISOLATED BUS I/O MODULE -





4 off Thermocouple Inputs

Communicates to Ethernet / RS232 or RS485 network via an SC-E-100 unit

Input/Output/Power Supply Isolation

Automatic Bus & Power Connection Via DIN Rail Bus Connector

Multiple inputs in one module

Very High Accuracy, Low Cost

Outputs

For Output Modules see SC-ISOSLICE-6 or SC-ISOSLICE-8

Input Types for SC-ISOSLICE-4

Thermocouple Inputs x 4

Thermocouple Types: J K N R S T B E

Danger Large number of input renger

Ranges: Large number of input ranges, can be user calibrated.

Cold Junction Compensation Full thermocouple linearization Upscale or Downscale t/c burnout options

For Channel to Channel Isolation see Isoslice-1

В	400 °C	1800 ℃
E	0 ℃	1000 ℃
J	0 ℃	1200 ℃
K	0 ℃	1200 ℃
N	0 ℃	1000 ℃
R	0 ℃	1400 ℃
S	0 °C	1400 ℃
Т	-200 °C	400 °C

The SC-ISOSLICE-4 isolated Bus I/O module combines full three-port isolation with access to an industrial bus. This bus connects to the SC-E-100 modules which are then used to transmit the process values via either an Ethernet or a RS232/485 wired communications network.

Full 3-port isolation is standard but for channel to channel isolation please see the SC-ISOSLICE-1

The input range and thermocouple type can be user selected using simple DIL switches inside the unit and the unit is factory calibrated for eight different thermocouple types.

The units have a wide ranging 12 to 36 Vdc. This supply can either be wired to the appropriate terminals or picked up automatically from the Bus connector.

Technical Specification	ns			
Parameter	Min	Тур	Max	Comments
Supply Voltage	12V	24V	36Vdc	
Supply Current (mA)		45	90	For 24Vdc supply (260mA for 50ms on start-up)
Bus Connection				16-bit bus connection
Volt Drop (mA input)		0.3		At 20mA Input
Input Impedance (Tc)		$1M\Omega$		
Output Linearity Error		$\pm 0.01\%$	±0.05%	
Temp Coefficient			±50ppm/°C	
Time Constant (10-90%	%)	200mS		
Operating Ambient	0°C		55°C	
Relative Humidity	0%		90%	
Isolation Voltage see note	1kV			
Surge Voltage	2.5kV	for 50µS	Transient o	of 10kV/µS

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 24Vdc supply, 4-20mA output with 250 Ω load and an ambient 20°C.

Installation Data

Mounting DIN Rail TS35 Orientation Any

Connections Screw Clamp with pressure plate

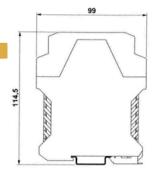
Conductor Size 0.5-4.0mm Insulation Stripping 12mm Weight Approx 95g Ordering Information

Part No.: SC-ISOSLICE-4

Cynergy3 Components Ltd.
7 Cobham Road
Ferndown Industrial Estate
Wimborne, Dorset BH21 7PE
Telephone +44 (0) 1202 897969
Email:sales@cynergy3.com

ISO9001certified

SC-ISOSLICE-4 2017



Notes

88	Part Number	Universal Inputs	mA or V Inputs	RTD Inputs	T/C Inputs	Analogue Outputs	Digital Inputs	Digital Outputs	
	SC-ISOSLICE-1	2							
did	SC-ISOSLICE-2		8						
31	SC-ISOSLICE-3			4					
=	SC-ISOSLICE-4				4				
3	SC-ISOSLICE-5						8		
	SC-ISOSLICE-6							4	
20	SC-ISOSLICE-7						2 x freq in		
EN	SC-ISOSLICE-8					4			
EV)	SC-ISOSLICE-9	4 x AC I/V							

