

SC-ISOSLICE-3

ISOLATED BUS I/O MODULE



- 4 off 3-wire RTD PT100 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

The SC-ISOSLICE-3 isolated Bus I/O module combines full three-port isolation with access to an industrial bus. This bus connects to the 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 can be user selected using simple DIL switches inside the unit and the unit is factory calibrated for four different input ranges. These are 0 to 100°C, -100 to +100°C, 0 to 400°C and 0 to 800°C.

Non-interactive zero and span controls make adjustment and calibration of the unit quick and simple.

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.

Input Types for SC-ISOSLICE-3

3-Wire RTD PT100 x 4

- 0 to 100°C
- 100 to +100°C
- 0 to 400°C and
- 0 to 800°C.

Min & Max Full Scale Ranges are:

PT100 3-Wire	-200 °C	+850 °C
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Outputs

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

Technical Specifications

Parameter	Min	Typ	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 (Volt)		1MΩ		Dependant on range (typ=10V)
Input Impedance (mA)		15Ω		Dependant on range (typ=20mA)
Output Linearity Error		±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 of 10kV/μS	

Notes

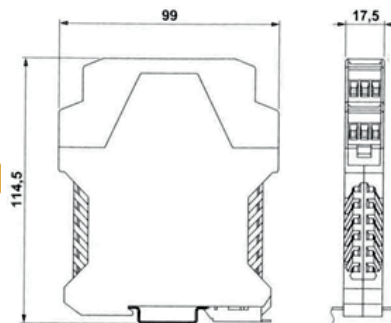
Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur. Device is protected against reverse polarity connection. Accuracy figures based on 24Vdc supply, 4-20mA output with 250Ω load and an ambient 20°C.

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 95g

Ordering Information

Part No.: SC-ISOSLICE-3



Part Number	Universal Inputs	mA or V Inputs	RTD Inputs	T/C Inputs	Analogue Outputs	Digital Inputs	Digital Outputs
SC-ISOSLICE-1	2						
SC-ISOSLICE-2		8					
SC-ISOSLICE-3			4				
SC-ISOSLICE-4				4			
SC-ISOSLICE-5						8	
SC-ISOSLICE-6							4
SC-ISOSLICE-7						2 x freq in	
SC-ISOSLICE-8					4		
SC-ISOSLICE-9	4 x AC I/V						

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ISO9001 CERTIFIED

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