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# SC-ISOSLICE-7

## ISOLATED BUS I/O MODULE



- 2 off Frequency Inputs or 1 off Pulse Counting Input
- 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

### Input Types for SC-ISOSLICE-7

Frequency Inputs x 2 or  
Pulse Counting Input x 1

### Outputs

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

The type of digital input can be selected using internal DIP switches.

Typical inputs are volt free contacts or 0-24 Volt

The standard maximum frequency is 10kHz per channel but higher frequencies may be available, please enquire.

The SC-ISOSLICE-7 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 frequency or pulse counting input type can be switched using internal DIP switches for either volt-free contact inputs or voltage level inputs. The two frequency input values or one pulse counting total can be read from internal modbus registers.

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 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                         |
| Temp Coefficient                      |                |               | ±50ppm/°C            |   |
| Time Constant (10-90%)                |                | 60mS (normal) |                      | 200mS for reading update                      |
| Operating Ambient                     | 0°C            |               | 55°C                 |   |
| Relative Humidity                     | 0%             |               | 90%                  |   |
| Isolation Voltage <sup>see note</sup> | 1kV            |               |                      |   |
| Surge Voltage                         | 2.5kV for 50µS |               | Transient of 10kV/µS |   |

### Notes

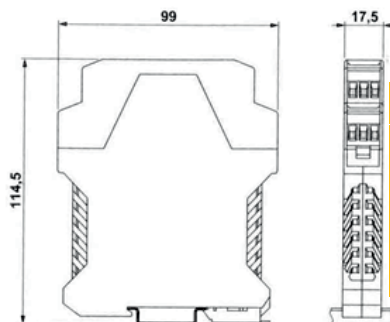
Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur. Device is protected against reverse polarity connection. Accuracy figures based on 24Vdc supply, 4-20mA output with 250Ω load and an ambient 20°C.

### 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-7



| 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 ACI/V        |                |            |            |                  |                |                 |

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