

ISOSLICE-6



ISOLATED BUS I/O MODULE

- 4 off Digital Outputs
- Communicates to Ethernet / RS232 or RS485 network via an E-100 unit
- LED Indication of Relay Status
- Automatic Bus & Power connection via DIN rail bus connector
- Multiple inputs in one module
- Very High Accuracy, Low Cost

Description

The ISOSLICE-6 isolated Bus I/O module combines full three-port isolation with access to an industrial bus. This bus connects to the E-100 or Z-PORT coordinator 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.

The digital output action can be switched using internal DIP switches for either NO or NC operation. The LED indicators can be switched to be ON or OFF when the relays are energised. Each output is controlled via Modbus commands to the E-100 or can be set as alarm levels for analogue input modules.

The unit is fitted with SPDT relays with all three connections being available for each relay.

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

Output Types for Isoslice-6

Digital Outputs x 4

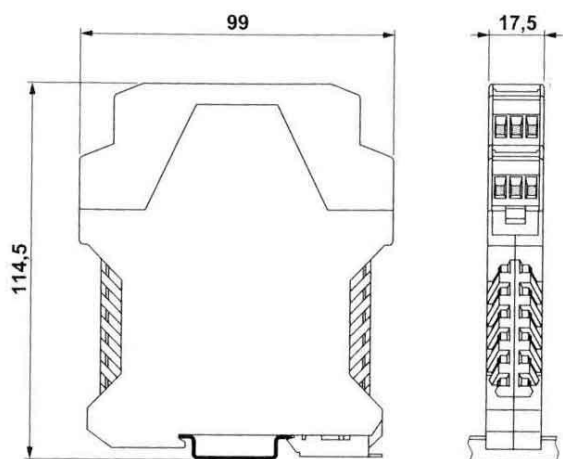
The action of each digital output can be selected using internal DIP switches between Normally energised and Normally de-energised.

The same applies to the LED indication where the LEDs can be set to be lit when the Relay is energised or de-energised.

The relays fitted are SPDT mechanical relays.

Technical Specifications

Parameter	Min	Typ	Max	Comments
Supply Voltage	12	24V	36Vdc	
Supply Current (mA)		45	90	For 24 V dc supply (260mA for 50mS on start up)
Bus Connection				16-bit bus connection
Input Impedance (Volt)		1 M Ω		Dependent on range (Typ=10V)
Input Impedance (mA)		15 Ω		Dependent on range (Typ=20mA)
Volt drop (mA input)		0.3		At 20mA input
Output Linearity Error		$\pm 0.01\%$	$\pm 0.05\%$	
Temp Coefficient			$\pm 50\text{ppm}/^{\circ}\text{C}$	
Load Resistance Error			$\pm 5\text{ppm}/\Omega$	$0 < R_L < 750\Omega$
Time Constant (10-90%)		60ms (normal)		
Operating Ambient	0 $^{\circ}\text{C}$		55 $^{\circ}\text{C}$	
Relative Humidity	0%		90%	
Isolation Voltage ^{see note 1}	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. Accuracy figures based on 24Vdc supply, 4-20mA output with 250 Ω load and 20 $^{\circ}\text{C}$ ambient. Device is protected against reverse polarity connection.			



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

Input and Output Options

Part Number	Universal inputs	mA or V inputs	RTD inputs	Thermocouple inputs	Analogue Outputs	Digital inputs	Digital outputs
ISOSLICE-1	2						
ISOSLICE-2		8					
ISOSLICE-3			4				
ISOSLICE-4				4			
ISOSLICE-5						8	
ISOSLICE-6							4
ISOSLICE-7						2 x Freq / Pulse	
ISOSLICE-8					4		
ISOSLICE-9	4 x AC I/V						
ISOSLICE-10	8 x AC I/V						

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