MAN0936-01-EN Specifications / Installation



### **SmartRail**

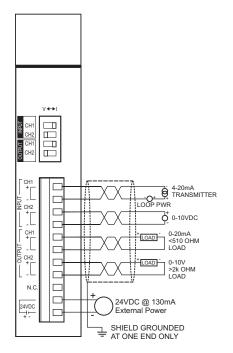
# 0-10V, 4-20mA Analog Input/Output Module HE599MIX116

## 12-Bit Resolution

#### 1 Specifications

Spe	cifications		
INPUTS			
Number of Channels	2		
Input Ranges	4-20mA, 0-20mA, 0-5V, 0-10V		
Absolute Max. Inputs	±15V, ±25mA		
Resolution	12-Bit (4uA,5uA,1.25mV, 2.5mV		
Input Impedance	1MΩ (voltage), 250Ω (current)		
Accuracy	< ±0.5%		
Conversion Time	1mS/ch		
OUTPUTS			
Number of Channels	2		
Output Ranges	0-10V, 4-20mA, 0-20mA		
Absolute Max. Outputs	±15V, ±25mA		
Resolution	12-Bit (2.5mV, 4uA, 5uA)		
Maximum Load	>2kΩ (voltage), <510Ω (current)		
Accuracy	< ±0.5%		
Conversion Time	1mS/ch		
General	General Specifications		
Isolation	Photocoupler (Input/Power)		
Backplane Power Consumed	50mA @ 5V		
External Power Required	62mA @ 24V (+/-10%)		
Terminal Type	Screw Type, Removable 11-posn		
Storage Temp.	-25° to 70° Celsius		
Operating Temp.	-0° to 55° Celsius		
Relative Humidity	5 to 95% Non-condensing		
Dimensions WxHxD	20mm x 90mm x 60mm		
	0.79" x 3.54" x 2.36"		
Weight	73g (2.6 oz.)		
CE & UL Compliance	CE, UL & C-UL		

#### 2 Wiring – I/O



MIX116 LED Status Indication		
LED 1	LED 2	Meaning (same for both LEDs)
IN OK	OUT OK	ON = Normal Operation
		FLASH = I/O Error
		OFF = No Power or I/O Error

#### 3 Configuration DATA

The SmartRail MIX116 features a dip switch on the front of the unit for selecting voltage (0-10V) or current (4-20mA or 0-20mA) on a per channel basis. In addition to the physical dip switch, Cscape (9.1 or later) must be used for software configuration as well. The following parameters are configurable in Cscape for the MIX116:

Cscape Configuration Data - Selectable per channel		
Parameter	Selections	
Input/Output Range	4-20mA	
	0-20mA	
	0-5V	
	0-10V	
Hold Last State (Outputs)	Hold Last State	
	Go to Minimum	
	Go to Mid-range	
	Go to Maximum	

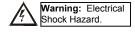
#### 4 Installation / safety

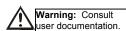
**Warning:** Remove power from the OCS controller and any peripheral equipment connected to this local system before adding or replacing this or any module.

- a. All applicable codes and standards should be followed in the installation of this product.
- b. Shielded, twisted-pair wiring should be used for best performance.
- c. Shields should be grounded at one end only, preferably at the end providing the best noise shunting.
- d. Use the following wire type or equivalent: Belden 8441.

For detailed installation and a <u>handy checklist</u> that covers panel box layout requirements and minimum clearances, refer to the hardware manual of the controller you are using.

When found on the product, the following symbols specify:





#### 7 Technical Support

Technical Support at the following locations:

North America: Europe:

Tel: 317 916-4274 Tel: +353-21-4321266 Fax: 317 639-4279 Fax: +353-21-4321826

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3/23/2010 Page 1 of 1