PROCESS SIGNAL ISOLATORS

SEM1200 LOOP SPLITTER

- Two (4 to 20) mA Outputs
- Galvanic Isolation 500 V DC Flash Tested 1 KV
- High Accuracy 0.05%
- > 12.5 mm Wide



INTRODUCTION

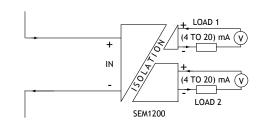
The SEM 1200 isolator is a dual output isolator, providing two separate isolated (4 to 20) mA current signals from a primary loop. The output loops must be powered externally. This isolator requires no user adjustment during commissioning, apart from an initial test, to ensure it operates correctly over its full working range. Minor adjustments can be made to the calibration of the device by means of the two front panel accessible calibration potentiometers. Incorrect connection in the loop will not damage the device as long as the specified maximum currents/voltages are not exceeded.

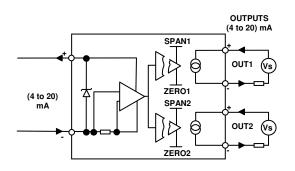
SPECIFICATIONS @ 20 °C **MECHANICAL DETAILS** INPUT TYPE Current input 2 wire Loop powered CONNECTION Captive clamp screws (4 to 20) mA (30 mA MAX) RANGE CABLE SIZE Maximum 4 mm sq solid / 2.5 mm sq stranded PROTECTION CASE MATERIAL Reverse connection Grey Polyamide VOLTAGE DROP 5.0 V Maximum FLAMMABILITY To UL94-VO VDE 0304 Part 3, Level IIIA DIMENSIONS Case C: (60 x 75 x 12.5) mm (67.5 above rail) OUTPUT 1 & OUTPUT 2 @ 15 V dc 2 Wire current sink (4 to 20) mA MOUNTING Snap on "top hat" rail (DIN EN 50022-35) TYPF I OOP VOI TAGE (5 to 32) V d.c. (reverse protected) * Load = 900 ohm @ Vs = 24 V Loop volt drop = 5 V Load = 1200 ohm @ Vs 30 V (All dimensions in mm) Loop must be > 250 R for ambients > 50 °C GENERAL SPECIFICATION G ISOLATION 500 V DC (flash tested @ 1 kV) between each **STATUS** port (Isolation method, opto coupler / C ZERD 1 C transformer) SERIAL NO ENVIRONMENT BS EN61010-1 POLLUTION DEGREE 2; SPAN 2 IN: (4 to 20) mA (Loop Powered) OUT: 2 x (4 to 20) mA Sink (External Powere 75 ò INSTALLATION CAT II; CLASS I AMBIENT (0 to 70) °C ; (10-95) % RH non condensing IN ACCURACY ± 0.05 % (± 0.008 mA) of full range output $\cap \cap$ STABILITY 0.01 % / °C RESPONSE TIME Less than 100 mS to reach 70 % of final value. 00 EMC Tested to BS EN 61326 60 ADJUSTMENT Front Entry Fine Zero and Span Adjustment for 12.5 each channel



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SCHEMATIC







ORDER CODE: SEM1200

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