

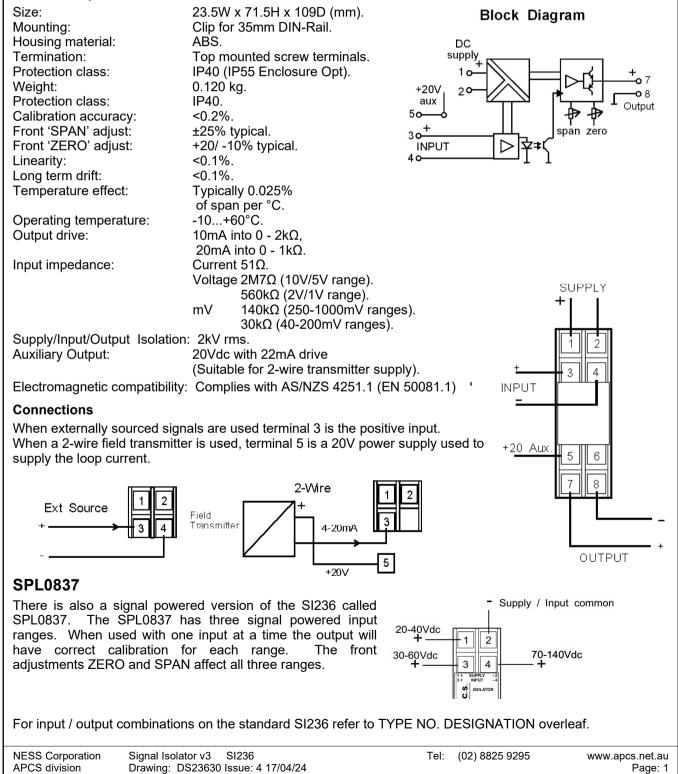
Signal Isolator v3 SI236

DESCRIPTION

The SI236 is an isolating converter providing true 3-way galvanic isolation up to 2kV rms. The SI236 produces an isolated unipolar output signal from an input signal. The SI236 comes in three, coding plug select-able models to accept either: Process, mV or Bipolar input signals. No special tools or components are required for range changing in the field. A 20Vdc/22mA sensor supply is available at the input section, this can be useful for loop powered field transmitters. Final calibration is trimmed using the front accessible zero and span 15-turn trim adjustments. Maximum current drive is 20mA and maximum voltage drive is 20V. The wide swing DC-power supply (8-60V) covers all popular DC sources. All units are fitted with a 500mS filter that can be link changed to 5mS for fast response. Surge protection for power supply and input is standard with all APCS modules.



General Specifications



-A.P. C.S																
SI236 – X X X 0 X X																
TYPE NO. DESIGNATION																
Power Supply:																
3 = 8 - 60Vdc. *) $6 = 60 - 160$ Vdc / $48 - 150$ Vac.																
*) 5 = 20 - 48Vac.																
Input (Specify required range from selected table):																
1 = Process Signals, Table 2 (# 4-20mA). *) B = Adder, 2 inputs 4 - 20mA floating.																
2 = Millivolt Signals, Table 4 (# 75mV). 3 = Bipolar Signals, Table 5 (# +10V). *) C = Subtracter, 2 inputs 4 - 20mA floating. *) D = MIN selector, 2 inputs 4-20mA signal.																
3 = Bipolar Signals, Table 5 (# +10V). *) $D =$ MIN selector, 2 inputs 4-20mA signal. *) $E =$ MAX selector, 2 inputs 4-20mA signal.																
*) A = Potentiometer 3W voltage excitation. *) 9 = Other. (Specify).																
Refer to DS23632 for additional connection information when using inputs B to E.																
Output (Specify required range):																
1 = Process Signals Table 7 4-20mA default. *) 9 = Other. (Specify, disable links).																
*) L = 4-20mA loop powered signal.																
Action:																
1 = Direct. 2 = Reverse.																
Options:																
0 = None. 3 = Bipolar Millivolt Input Signals, Table 6.																
*) 1 = Customised response time (Specify). *) 9 = Other.																
Response time Bipolar Signal input Output Range																
Table 1 5mS		SW1/1					Table 5		-	S	N1		Table 7 SW3			
500mS	X				Input ±20mA	2 X	3 X	4 X	5	6 X	7	Output 1 2 3 4 5 6 4-20mA X X X				
Process Si	±20mA ±10mA	X	X	X	X	X		0-20mA X								
Table 2	ignu			N1			±1V		Х	Х		X		0-10mA X		
Input	2	3	3 4 5 6 7			7	±2V ±5V		Х	X		X X		0-5V X X X 1-5V X X X		
4-20mA 0-20mA	X X	<u>Х</u> Х	X X		x	X	±10V					Х		0-10V X X		
0-10mA	X	Х	Х	X	X		Bipolar Mi	llivo	olt in	put				To change ranges		
0-1V		X	Х		X		Table 6			S	N1			1. Disconnect power nu-clip		
0-2V 0-5V		Х	X		X X		Input	2	3	4	5	6	7	housing lid and withdraw unit		
1-5V			Х			Х	+/-20mV +/-25mV		X X	X X	X X	X		from housing. 2. Set coding plugs as required.		
0-10V Other non-s	tand	ard			X		+/-40mV		X	X				3. Reassemble unit and connect		
0-0.5V		X	X	X	X		+/-50mV		Х	Х		Х		power.		
0-2.5V			X	X	X		+/-60mV		X		X	V		4. Adjust "Span and "Offs" pots to		
0-4V 0-6V			X	X			+/-75mV +/-100mV		X X	-	X	X X		re-calibrate. 5. Change the label information to		
0-7.5V				Х	Х		+/-125mV			X	X	X		the new input/output values.		
Millivolt Si	gna	l inp	out				+/-200mV			Х						
Table 4	•		N 1			+/-250mV +/-300mV			X	X	Х		Coding Plug Location Diagram			
Input 0-40mV	2	3 X	4 X	5 X	6	7	+/-500mV					X				
0-40mV		X	X	X	X											
0-75mV		Х	Х													
0-100mV 0-150mV		X X	X	X	X X									sw3		
0-200mV		X			X									لر الج التي التي التي التي التي التي التي التي		
0-250mV			X	X	X											
0-400mV 0-500mV			X X	-	X	$\left - \right $										
0-600mV				X												
0-750mV 0-1000mV				X	X X											
				I	^											
*) = Price Extra. All extra price inputs disable future use of the program links.																

= Factory default calibration unless specified otherwise. In the interest of development and improvement, APCS reserve the right to amend, without notice, details contained in this publication. APCS will accept no legal liability for any errors, omissions or amendments.

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