SIGNAL ISOLATOR, DUAL OUTPUT -

REPEATER POWER SUPPLY, 4 ~ 20 mA, FOR 2-WIRE TRANSMITTER WITH 1 OR 2 4~20 mA OUTPUTS REPEATER POWER SUPPLY, 0/4 ~ 20 mA, FOR CURRENT SOURCE WITH 1 OR 2 0/4~20 mA OUTPUTS



- Mutual isolation between input, output1, output2 and power supply
- Provides two outputs from one 4 to 20 mA transmitter or one 0/4~20 mA current source

SI4P

- Line fault detection feature provides alarm facilities
- Transfer accuracy <0.1% of span
- 17~35 V DC / 85~265 V AC power supply
- T section DIN Rail mounting
- Input protection option

SI4P is an independently powered isolator which provides both a fully isolated DC supply for energising a 2-wire transmitter while also transferring the transmitter current to two separate isolated output circuits driving loads upto1 k Ω . The input can also be a 0/4~20 mA current source. Line fault detection feature (also isolated) is provided by an open collector which can be used to activate an alarm. When the input cable is broken, no current flows into terminal 2/3 and the line fault detection (LFD) output is OFF. When a current greater than 1 mA flows in the input, then LFD output is ON. Power supply required is 17~35 V DC / 85~265 V AC. An input protection option is also provided.

SPECIFICATIONS All specifications at ambient of 25 °C, unless specified otherwise				
No. of input channels Input channel	One 2-wire transmitter supply, 4~20 mA	Supplying a transmitter (0~20mA input)	180 mA maximum at 20 V DC with a 20 mA signal 130 mA maximum at 35 V DC with a 20 mA signal	
No. of output channels	4~20 mA current source OR 0~20 mA current source	From a current source (0~20mA input)	150 mA maximum at 20 V DC with a 20 mA signal 105 mA maximum at 35 V DC with a 20 mA signal	
No. of output channels	100	For A = 01*	< 5 VA	
Input/output signal	4~20 mA OR 0~20 mA If 0~20 mA input is ordered, it will work for 4~20 mA. However, the power requirement is higher.	Transfer accuracy at 25 °C for both outputs 4~20 mA 0~20 mA	< ± 0.1% of span Better than 16 μΑ Better than 20 μΑ	
Load resistance, each output	0 ~ 1 kΩ	Line fault detection (LED)	Isolated transistor open collector	
Mutual isolation between input.	1500 V `AC RMS. 1 minute	output	output	
output 1, output 2 and power supply		LFD characteristics Input current < 0.2 mA	Transistor OFF	
Voltage available for transmitter Voltage drop across input from current source	20 V typical at 20 mA	Input current > 1 mA	Max permitted voltage : 26 V DC Max OFF leakage current : 150 μA Transistor ON Max permitted input current : 50 mA	
With protection	3.0 V maximum	Temperature coefficient of accuracy	< 0.02% of span / °C	
Input protection		Common mode rejection ratio	150 dB typical	
Against overcurrent	50 mA maximum	Common mode rejection ratio	100 db typical	
Power supply	a) 85~265 V AC, 50/60 Hz_OR	Ambient temperature limits	-20 °C to +55 °C (operating) -40 °C to +80 °C (storage)	
Power consumption For A = 00*	5, 11 00 1 20	Humidity	5 ~ 95% RH, non-condensing	
Supplying a transmitter (4~20mA input)	140 mA maximum at 20 V DC with a 20 mA signal 100 mA maximum at 35 V DC with a 20 mA signal	Enclosure Material Dimensions A=00* A=01* Mounting	ABS plastic 75(H) x 45(W) x 110(D) mm 75(H) x 55(W) x 110(D) mm Snap on for 35 mm DIN rail to DIN	
From a current source (4~20mA input)	115 mA maximum at 20 V DC with a 20 mA signal 80 mA maximum at 35 V DC with a 20 mA signal	Terminals Weight Protection	Accomodate 2.5 mm ² conductors < 250 grams IP 20	
* = See Ordering Information				

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CONNECTION DIAGRAM



Supply voltage : 17~35 V DC



+ - Use terminal 3 (input protection absent) instead of terminal 2 for lower input voltage drop

Supply voltage : 85~265 V AC



ORDERING INFORMATION

SI4P will be supplied with the following standard specifications :



Ordering Options The following ordering options are available on request. Minimum order quantity and/or minimum order value may apply.

	Option details		
1.	0 ~ 20 mA input/output		
2.	1 output		



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SI4P