

CURRENT LOOP SUPPLY

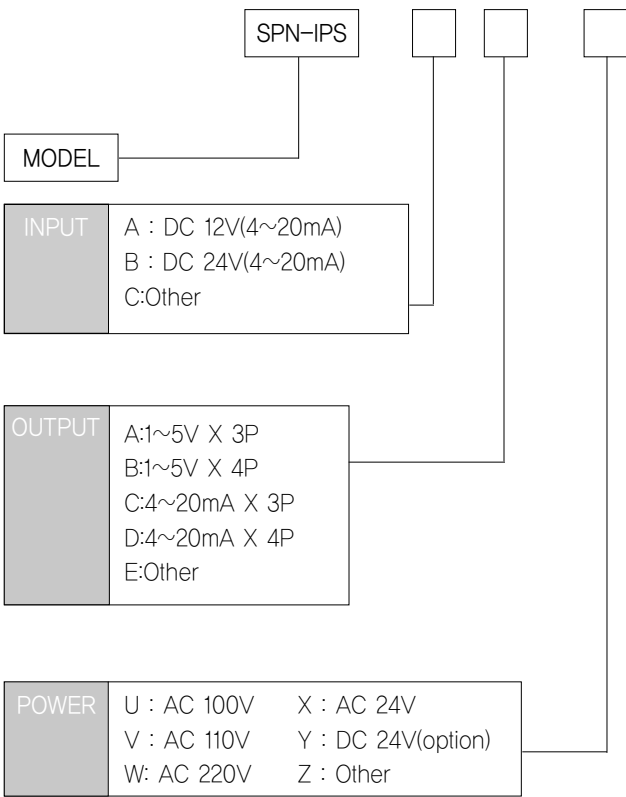
SPN-IPS



A converter is used to supplies power to 2-wire current loop system transmitter and receives DC signal and provides isolated DC signal.

- Various 2-wire transmitters.
- Isolator application(4~20mA)
- 3 or 4 outputs are available from 1 input.
- Contains overvoltage protection circuit.
- Transformer isolation type.

MODEL & SUFFIX CODE SELECTION



GENERAL SPECIFICATIONS

Isolation/Type	Input to output to power/Transformer isolation type		
Power Supply	AC rating $\pm 10\%$, approx. 3.5VA DC rating $\pm 10\%$, (ripple 10%)100mA		
Accuracy	$\pm 0.1\%$ (Max)		
Temp Coefficient	$\pm 0.015\%$ / $^{\circ}\text{C}$ ($\pm 0.008\%$ / $^{\circ}\text{F}$)		
Linearity	$\pm 0.02\%$ F.S		
Insulation Resistance	Greater than 100M Ω with DC 500V		
Dielectric Strength	Input – Power	AC 2500V AC 1000V	1 minute
	Input – Output		
	Output 1 – Output 2		
	GND – Power		
Front Adjustments	Zero and Span $\pm 5\%$		
Overrange Output	approx – 10% ~ 110% at DC 1~5V		
Response Time	0.5 sec (0~90%)		
Operating Temperature/Humidity	-20~60 $^{\circ}\text{C}$ / 90%(N.C)		
Storage Temperature/Humidity	-20~80 $^{\circ}\text{C}$ / 95%(N.C)		
Dimensions	W81×H129×D138(mm)		
Case Material	Aluminum		
Weight	about 980g		
Mounting	Wall mounting		

SIGNAL CONVERTER

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INPUT & OUTPUT SPECIFICATIONS

Input Impedance

Specification	Report
Supply range	24~28V(with no load)
Current rating	22mA(Max)
Current limited	30mA(Max)
Input impedance	250 Ω

Output Load Resistance

Output	Out-1	Out-2	Out-3	Out-4	Remark
4 ~ 20mA	460 Ω	460 Ω	460 Ω	460 Ω	(Max)
0 ~ 20mA	460 Ω	460 Ω	460 Ω	460 Ω	(Max)
2 ~ 10mA	950 Ω	950 Ω	950 Ω	950 Ω	(Max)
1 ~ 5V	5000 Ω	5000 Ω	5000 Ω	5000 Ω	(Min)
0 ~1V	1000 Ω	1000 Ω	1000 Ω	1000 Ω	(Min)

BLOCK DIAGRAM

