

SQUARE ROOT EXTRACTOR

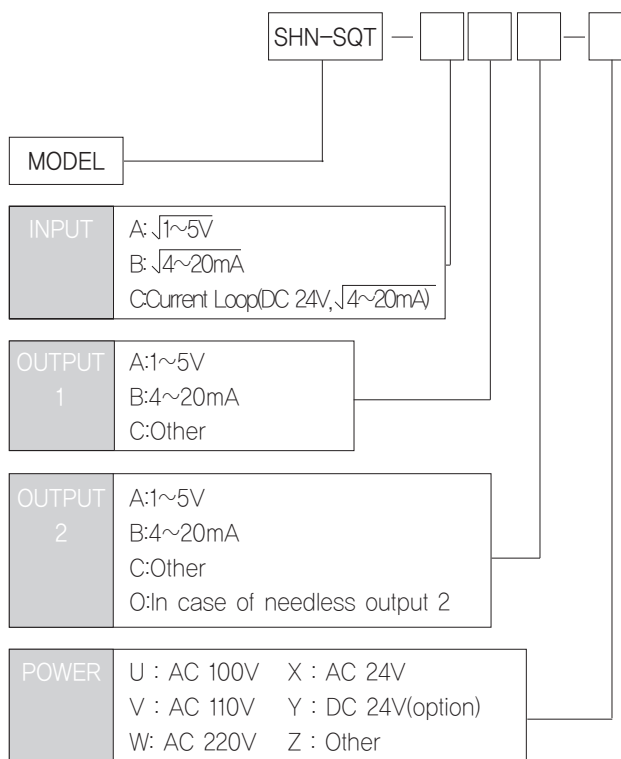
SHN-SQT



Converting DC input signal into an isolated square root output signal.

- Various 2-wire transmitters application.
- Square root extractor application(4~20mA).
- Contains linearizer circuit.
- 1 or 2 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 ±10%, approx. 3.5VA DC rating ±10%, (ripple 10%)100mA		
Accuracy	±0.3%(Max)		
Temp Coefficient	±0.02% / °C(±0.008%/°F)		
Linearity	±0.03% F.S		
Insulation Resistance	Greater than 100MΩ with DC 500V		
Dielectric Strength	Input – Power	AC 2500V	1 minute
	Input – Output		
	Output 1 – Output 2	AC 1000V	
	GND – Power		
Front Adjustments	Zero and Span ±10%		
Overrange Output	approx. -10% ~ 110% at DC 1~5V		
Response Time	≤0.5 sec (0~90%)		
Operating Temperature/Humidity	-20~60°C / 90%(N.C)		
Storage Temperature/Humidity	-20~80°C / 95%(N.C)		
Dimensions	8 pin:W50xH85xD122(mm) 11 pin:W50xH85xD133(mm)		
Case Material	ABS Resin (black)		
Weight	about 400g		
Mounting	Wall & Rail mounting		

SIGNAL TRANSMITTER

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INPUT & OUTPUT SPECIFICATIONS

Input Impedance

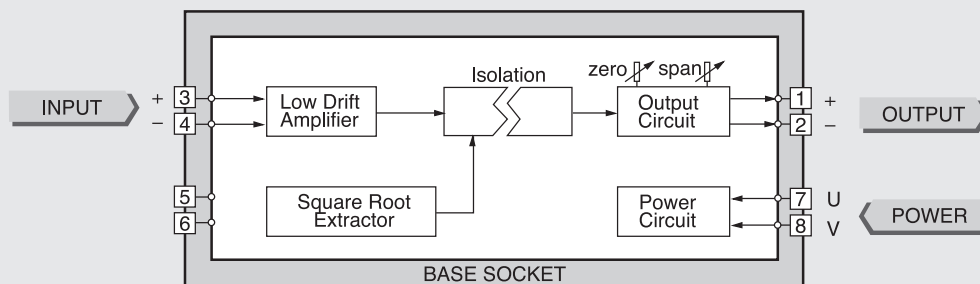
Input	Impedance
$\sqrt{4\sim 20\text{mA}}$	250 Ω
$\sqrt{1\sim 5\text{V}}$	1M Ω (Min)

Output Load Resistance

Output	1 Point	2 Point		Remark
	Output	Output-1	Output-2	
4 ~ 20mA	700 Ω	600 Ω	350 Ω	(Max)
1 ~ 5V	5k Ω	5k Ω	5k Ω	(Min)

BLOCK DIAGRAM

1 Point Output



2 Point Output

