

DC TO FREQUENCY

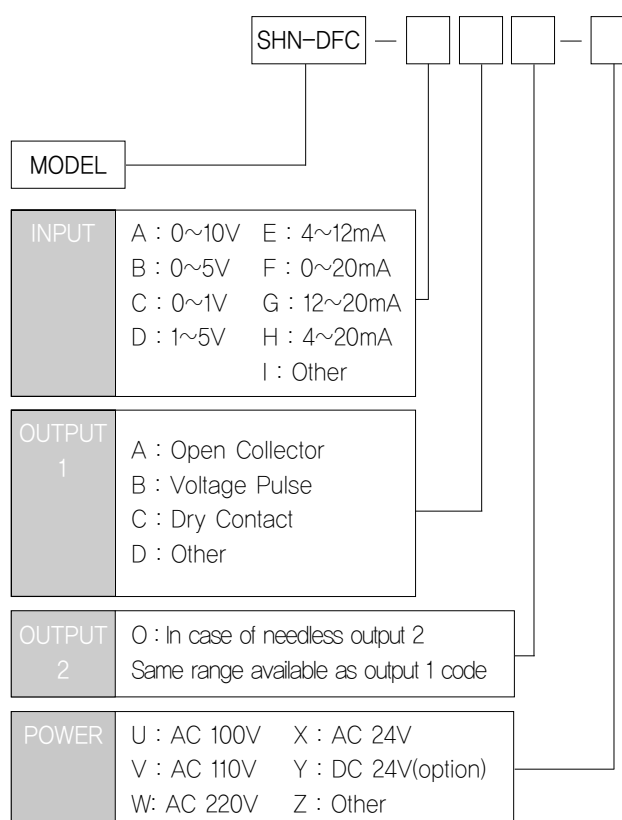
SHN-DFC



Providing a pulse rate output in proportional to the DC input signal.

- Totalizing applications by combination with a counter.
- Low-end cut-out adjustable.
- Frequency range adjustable with a front installed 4 rotary switch.
- 1 or 2 outputs are available from 1 input.
- Contains overvoltage protection circuit.

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	±0.15%(Max)		
Temp Coefficient	±0.02% / °C(±0.008%/°F)		
Duty Adjustments	50%		
Linearity	±0.02% F.S		
Insulation Resistance	Greater than 100MΩ with DC 500V		
Dielectric Strength	Input – Power Input – Output	AC 2500V	1minute
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		

INPUT & OUTPUT SPECIFICATIONS

Input Impedance

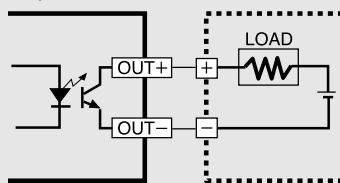
Input	Impedance
4~20mA	250Ω
0~20mA	250Ω
2~10mA	250Ω
1~5V	1MΩ (Min)
0~1V	1MΩ (Min)
0~10V	1MΩ (Min)

Output Load Resistance

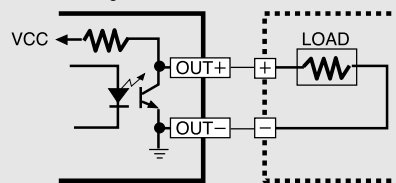
Specifications	Report	
LOW Frequency Range	1~9999 pulse/hour	
HIGH Frequency Range	1~999.9Hz	
Open Collector Spec	Voltage	DC 60V(Max) AC 60V(p-p)
	Load Current	0.4 A(Max)
	Load Impedance	1.4Ω (Min)
Voltage Pulse Spec	Level	High:V±10% Low:0≤0.5V
	Load Impedance	600Ω (Min)
Relay Contact Spec	Voltage	DC 60V(Max) AC 125V(p-p)
	Load Current	1A(Max)

OUTPUT CONNECTION EXAMPLES

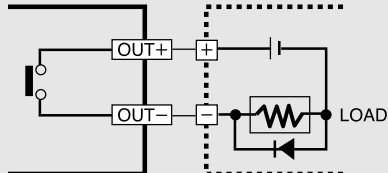
1. Open Collector



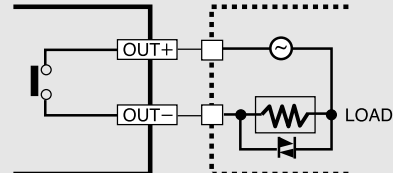
2. Voltage Pulse



3. Dry Contact



4. Current Pulse

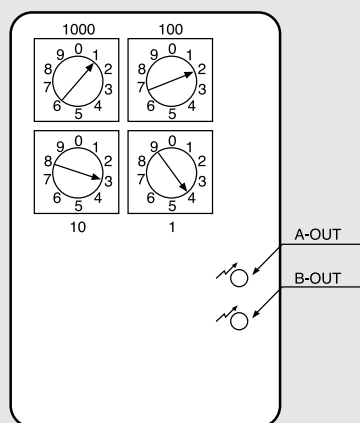


SIGNAL TRANSMITTER

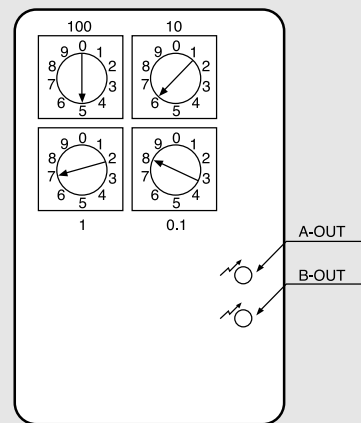
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FREQUENCY RANGE SETTING

Low Frequency (e.g. 1234pulse/hour)

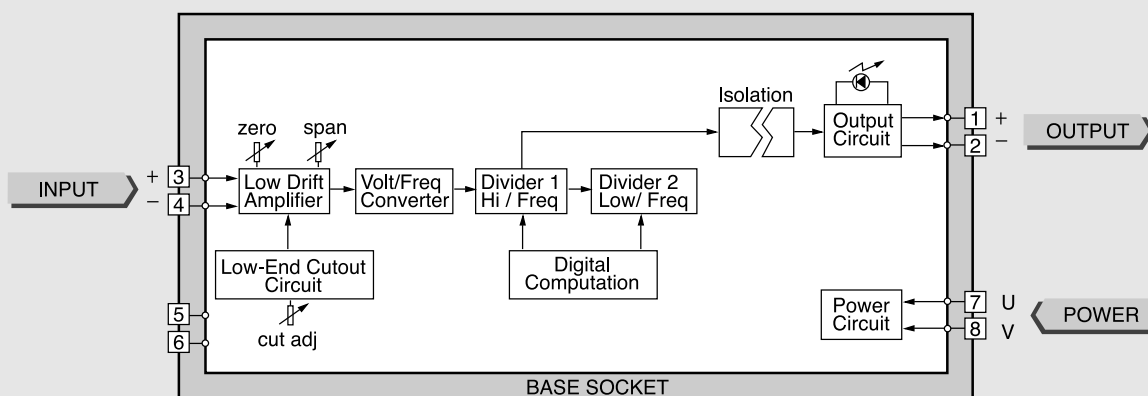


High Frequency (e.g. 567.8Hz)



BLOCK DIAGRAM

1 Point Output



SIGNAL TRANSMITTER SHN-DFC

2 Point Output

