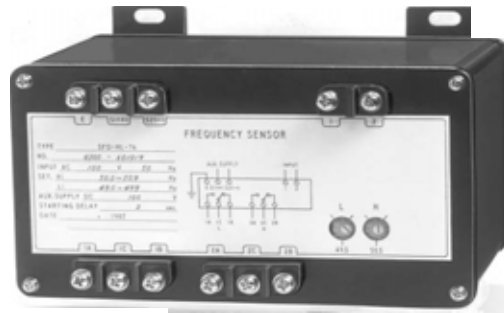


HIGH ACCURACY FREQUENCY DETECTOR

SFD-HL- 74



SFD-HL-74
(120 × 165 × 130mm/0.7kg)

■ **USE**

This product receives frequency signal, detects excess or deficiency and outputs contact signal. As this product is all electron, setting with high sensitivity is possible. Stable performance because of no influence by various factors such as vibration/external noise.

■ **FEATURES**

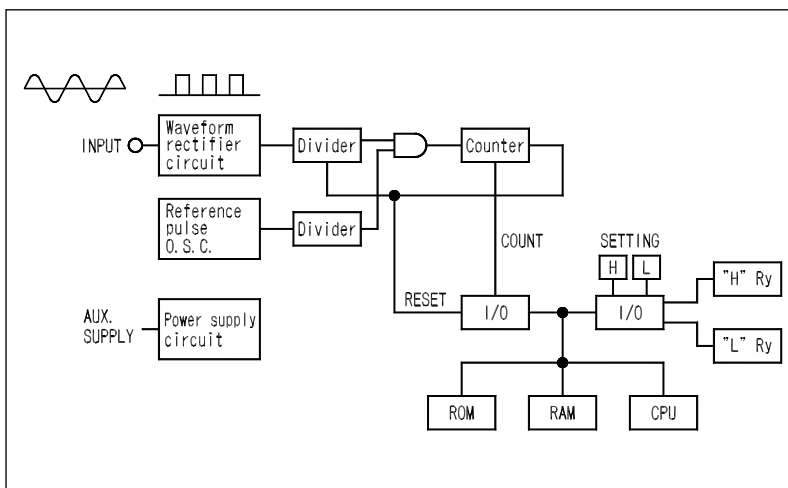
- ▶ High quality, high reliability and noise resistance design.
- ▶ High accuracy (0.01Hz) can be realized with frequency detection by CPU.
- ▶ Accurate setting is possible by digital switch.

■ **STANDARD SPECIFICATION**

Item		Standard specification
Type name		SFD-HL-74
Input	Rating frequency	50Hz or 60Hz (specify)
	Rating voltage	AC100/110V or AC200/220V (specify)
Control supply		AC100V ± 15% (3VA or less) *
Contact output		H: 1C L:1C
Contact capacity		AC220V 5A, DC24V 5A resistance load
50Hz setting range example		L: 49.0-49.9Hz H: 50.0-50.9Hz
External color		Black (Munsell N 1.5)
Operating temperature/humidity range		-10 ~ +50 , 40-85% RH
Storage temperature range		-30 ~ +60
Mass		0.7kg

* DC110V, DC24V, AC200V are manufacturable by specify.

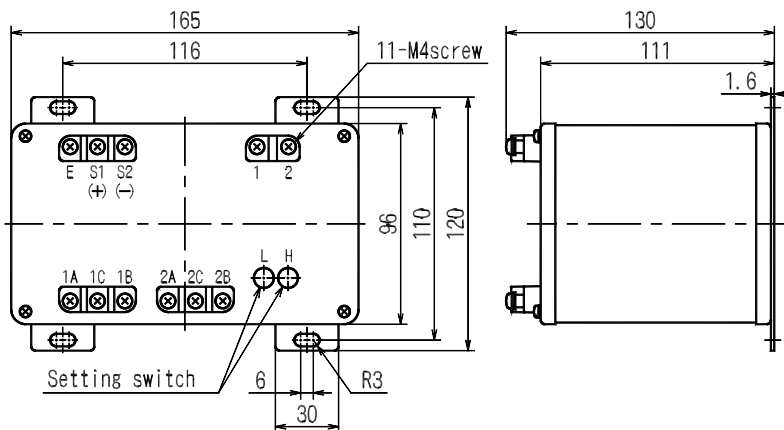
■ **BLOCK DIAGRAM**



■ **FUNCTION**


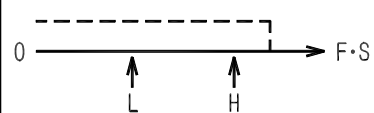
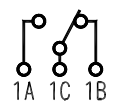
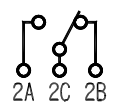
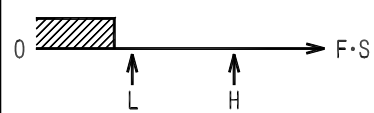
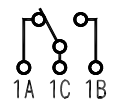
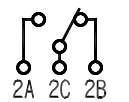
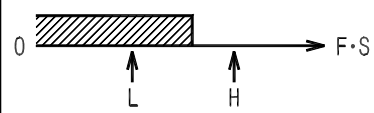
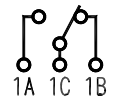
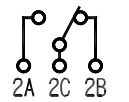
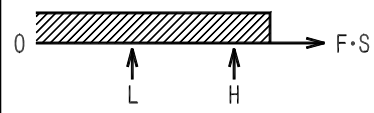
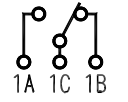
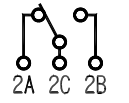
Item	Condition	Permissible limit
Setting stability	Operating value against setting value.	± 0.01Hz
Temperature influence	operating value against setting value (23 ± 20deg).	± 0.01Hz
Control power voltage influence	operating value against setting value (± 15% of rating value).	± 0.01Hz
Overvoltage strength	2 times (10 sec.) of rating voltage.	no abnormality
Control power voltage strength	AC: 2 times (10 sec.), 1.2 times (continuation) of rating voltage. DC: 1.2 times (continuation) of rating voltage.	no abnormality
Insulation resistance	DC500V between electric circuit and outer case. DC500V between input, control power supply and contact	50M or more
Withstand voltage	AC2, 000V (50/60Hz) 1 min. between electric circuit and outer case. AC2, 000V (50/60Hz) 1 min. between input, power supply and contact.	no abnormality
Impulse withstand voltage	5kV 1.2/50 μs between electric circuit and outer case, positive/negative polarity.	no abnormality
Vibration (false operation)	Frequency: 16.7Hz, peak to peak: 1mm, 10 min. each for X, Y and Z directions.	no abnormality
Shock	294m/S ² 2 times for X, Y and Z directions	no abnormality
Response time	Time for relay to operate after input changes.	0.5sec. or less

■ **DIMENSION**



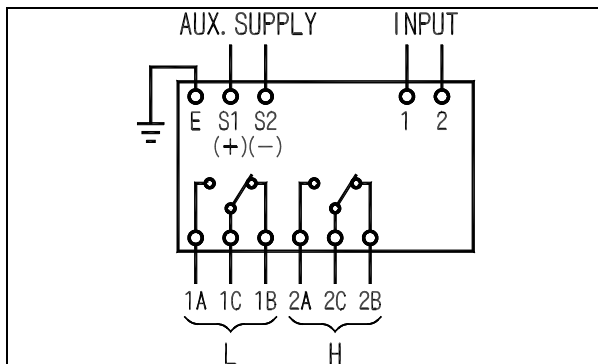
Mark	Name	Material
	box	SPCC
	Terminal board	SPCC
	Terminal block	PM-GE

■ CONTROL OUTPUT CONDITION

Input state	Input : 	Contact state	
		L	H
Auxiliary supply OFF Not based on input			
Auxiliary supply ON input ≤ L			
Auxiliary supply ON L < input < H			
Auxiliary supply ON H ≤ input			

*HH type and LL type are also manufacturable by specifying.

■ CONNECTION DIAGRAM



Items for specifying

1, type name	2, rating	3, setting range
4, control supply power	5, quantity	