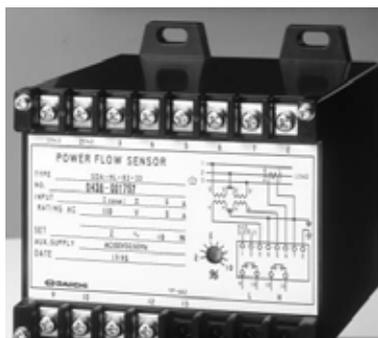


**POWER FLOW DETECTOR**

SDA-HL-83-33



**SDA-HL-83-33**

(120 × 110 × 130mm/1.0kg)

■ **USE**

This product is detector to detect power flow and control/protect AC equipment.

■ **FEATURES**

- ▶ High quality, high reliability and noise resistance design.
- ▶ Conformed to IEC standard.
- ▶ Response time is 60mS or less.
- ▶ Incoming/outgoing current can be detected by 2% of rated value.
- ▶ Use relay of Au-plated cross bar twin contact, arc-barrier for switching of low power circuit.

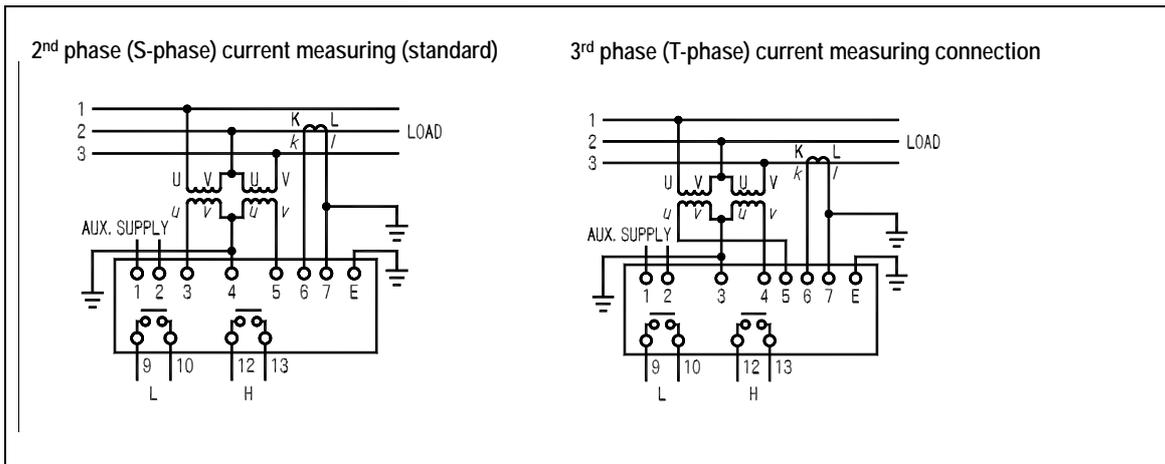
■ **STANDARD SPECIFICATION**

Item	Standard specification
Type name	SDA-HL-83-33
Conversion method	I cos conversion
Max. input	I cos ; ± 5A (or ± 1A)
Input voltage	line voltage 110V±15% 1VA
Input current	S-phase current: 5A (or 1A) 1VA *1
Input frequency	50/60Hz
Control supply	AC100V/200V or DC110V (90-140V) 5W
Neutral zone setting range	2-10% (setting VR changeable)
Dead band	1% or less (% against max. input value.)
Setting stability	± 1% (% against max. input value.)
Neutral zone setting error	± 1% (% against max. input value.)
Response speed	60ms or less (0-200% of setting value.)
Contact output	H: 1a L:1a
Contact capacity	DC110V L/R=7ms, 90mA *2
Insulation resistance	DC500V 50M or more between electric circuit and outer case. DC500V 20M or more between input, power supply and contact terminal.
Withstand voltage	AC2, 000V 1min. (50/60Hz) between electric circuit and outer case. AC2, 000V 1min. (50/60Hz) between input, power supply and contact terminal.
Impulse withstand voltage	5kV, 1.2/50 μ s (positive/negative) 10 times each between electric circuit and outer case.
Operating temperature/ humidity range	-10 ~ +50 ; 40-85% RH
Storage temperature range	-30 ~ +60
External color	Black (Munsell N 1.5)
Mass	Approx. 1kg.

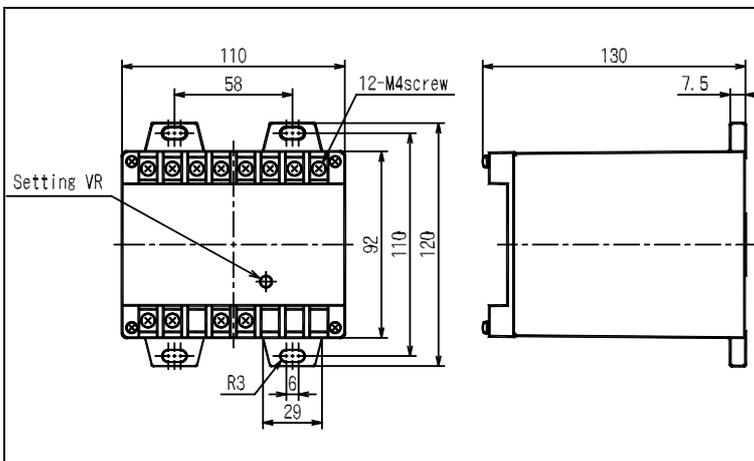
\*1: T-phase or R-phase can be measured when doing wire-connecting change though S-phase measurement on the standard issue. (Measure it as an example of T-phase.)

\*2: It is possible to produce from being in a large contact capacity relay by designation (MY-2Z-2, DC100V, 0.2A L/R=7ms) though MY-4Z-4 and CBG are used for the relay on the standard specification.

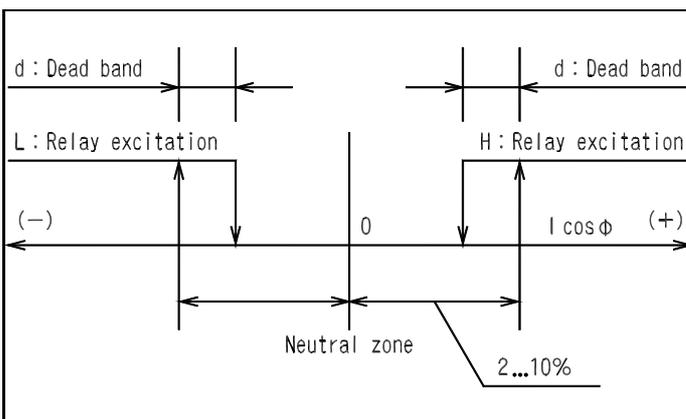
**CONNECTION DIAGRAM**



**DIMENSION** (Unit: mm)



**OPERATION**



**Items for specifying**

- |              |                         |                        |
|--------------|-------------------------|------------------------|
| 1, type name | 2, rating               | 3, setting range       |
| 4, input     | 5, control supply power | 6, quantity and others |