

This is a see-saw-motion potentiometer incorporating conductive plastic resistive element.

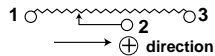
Model SFCP30A



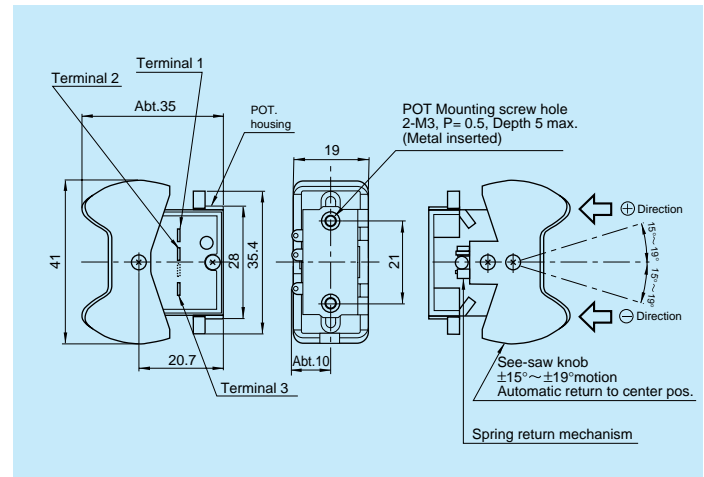
● Specifications

Total Resistance Value	: $10K\Omega \pm 15\%$
Independent Linearity Tolerance	: $\pm 3\%$
Electrical Travel	: $30^\circ \pm 5^\circ$
Power Rating	: $0.1W$
Center Returning Accuracy	: $50\% \pm 3\%$
Output Smoothness	: Below 0.2% against input voltage
Resolution	: Essentially infinite
Dielectric Strength	: 1 minute at 500V.A.C.
Insulation Resistance	: Below 1,000M Ω at 500V.D.C.
Operating Force	: Approx. 24mN·m ~ Approx. 30mN·m

● Terminal Connection Diagram



● Dimensions



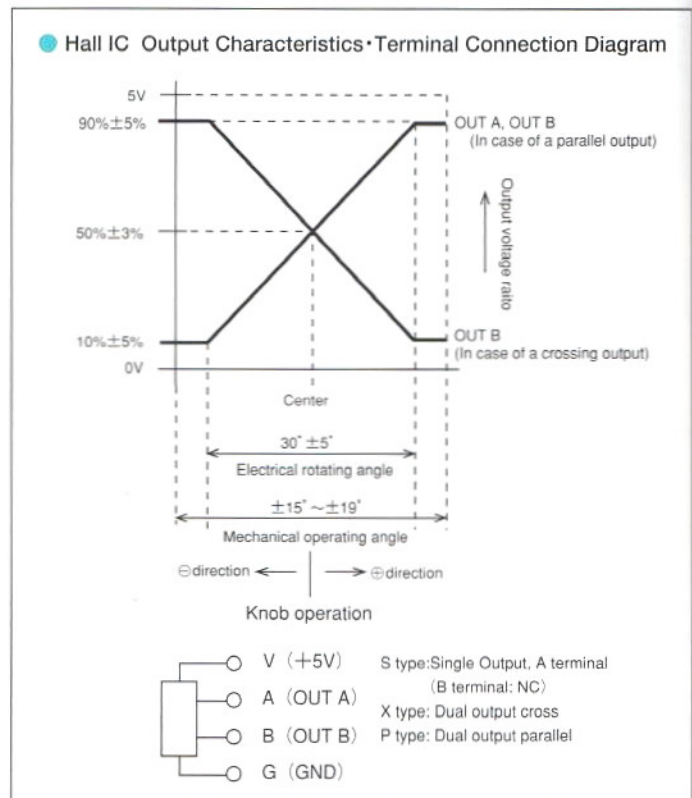
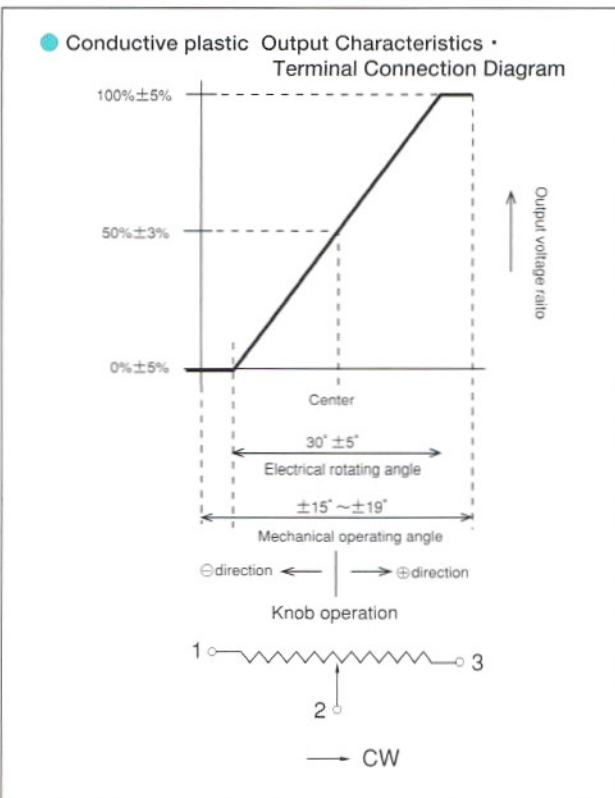
Seesaw-motion Potentiometer Unit

SAKAE Seesaw Potentiometer units are low-cost type seesaw-motion potentiometer units which incorporate conductive plastic resistive element or hall IC resistive element and have a very simple construction with center spring return device. Since we have been using the seesaw potentiometers in our Joystick controllers-type 100J and C90J with seesaw knob, we are proud of their high reliability. The seesaw potentiometer meets various requirements such as optical instruments, medical instruments, various measuring instruments and industrial vehicles, etc. There are two kinds of knob shapes as our standard model and you can select them for your applications. Also, we can provide many special specifications such as center tap etc. according to your request.

THE NOMENCLATURE OF SAKAE SEESAW-MOTION POT. SERIES

S **RMP** **30** **A** **Y** **S** - ○○○○

- Special Specification**
S means the potentiometer with special mechanical specifications not applicable to our standard.
- Type**
RMP means Seesaw-motion potentiometer unit.
- Dimensions**
30 means outline dimensions of the potentiometer in metric system are approximate 30mm.
- Characteristics**
A means a conductive plastic resistive element type.
H means a Hall IC(contactless) type.
- 4 digits branch number**
to be used for specific requirements
- S means output value and output characteristics.**
S: Single X: Cross P: Parallel
(This is not given to conductive plastic resistive element type.)
- Shapes**
Y means shapes of knob and others.
Y: Mountain shaped type • with leadwire holder
F: Flat shaped type • without leadwire holder
D: Outstretched knob type • without leadwire holder



Inductive Plastic-Hall effect IC **MODEL RMP30A/H**

● Standard Dimensions



RMP30AY with our standard knob



RMP30AF with flat shaped knob

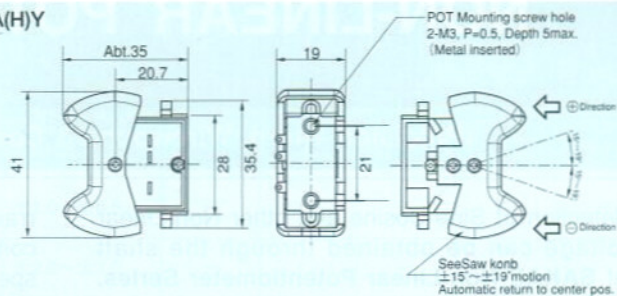


RMP30AD with outstretched knob

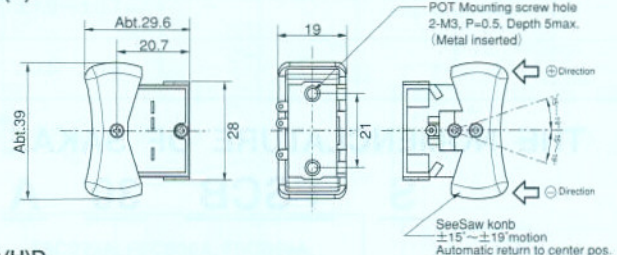


RMP30HF with flat shaped knob

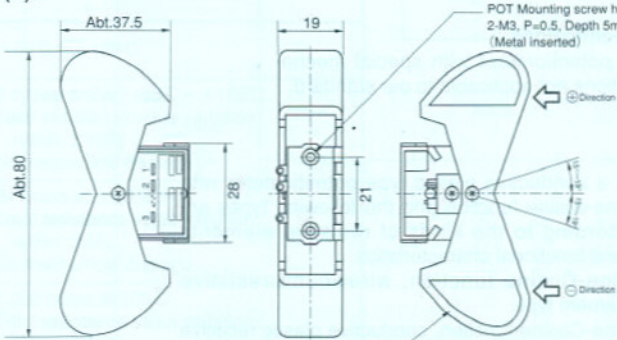
■ RMP30A(H)Y



■ RMP30A(H)F



■ RMP30A(H)D



Note:1. With extra taps in case of conductive plastic type.
2.4 terminals to be mounted in case of hall effect IC type.

● General Specifications • Environmental Specifications (Conductive plastic type)

Standard Resistance Value : 10k (Ω)	Insulation Resistance : Over 1,000MΩ at 500V.D.C.
Special Practical Resistance Values : 1k, 2k, 5k, 20k (Ω)	Dielectric Strength : 1 minute at 500V.A.C.
Total Resistance Tolerance : ±15%	Operating Force : Approx. 24mN·m~30mN·m(D type knob:Approx. 48mN·m~ 60mN·m)
Independent Linearity Tolerance : ±3%	Mass : Approx. 20g
Output smoothness : Within 0.2% against input voltage	Operating Temperature Range : -20°C ~ +60°C
Contact Resistance Variation : Within 5% C.R.V.	Vibration (according to U.S.A. MIL specification) : 10~55Hz 98m/s ²
Power Rating : 0.1W	Shock (according to U.S.A. MIL specification) : 294m/s ²
Electrical Travel : 30°±5°	Protection Grade (IP) : Standard IP 40, Special IP54
Operating Angle Range : ±15°~±19° from center position	Life Expectancy : Approx. 2,000,000 operations
Center Returning Accuracy : 50%±3%	

● General Specifications • Environmental Specifications (Hall effect IC type)

Current Consumption : Approx. 7mA (Dual output type:Approx. 14mA)	Operating Force : Approx. 24mN·m~Approx. 30mN·m(D type knob:Approx. 48mN·m~60mN·m)
Independent Linearity Tolerance : ±3%FS	Output Temperature Characteristic : Within ±2.5% Vout · FS
Applied Voltage : 5V.D.C. ±10%	Drift at Center Position : Within ±0.9% Vout · FS
Load Resistance : 10kΩ min.	Mass : Approx. 20g
Output Voltage range : Approx. 10%~90% Vin	Operating Temperature Range : -20°C ~ +60°C
Effective Electrical Angle : 30° ±5°	Vibration (according to U.S.A. MIL specification) : 10~55Hz 98m/s ²
Operating Angle Range : ±15°~±19° from center position	Shock (according to U.S.A. MIL specification) : 294m/s ²
Center Returning Accuracy : 50%±3%	Protection Grade (IP) : IP65
Insulation Resistance : Over 100MΩ at 250V.D.C.	Life Expectancy : Approx. 5,000,000 operations
Dielectric Strength : 1 minute at 250V.A.C.	EMC durability : 100V/m

● Special Specifications Available

- Conductive plastic type : Extra taps (Available up to 1 tap), Heavier operating force (not available for D type knob), Simple sealed housing, Special outer shapes (knob's shapes, etc.)
- Hall effect IC type : Special output, Heavier operating force (not available for D type knob)