

MODEL RMP30A/H

Sakae

- Conductive Plastic & Hall effect IC
- Low-cost Item
- RoHS Compliant

● Standard Dimensions



RMP30AY with our standard knob



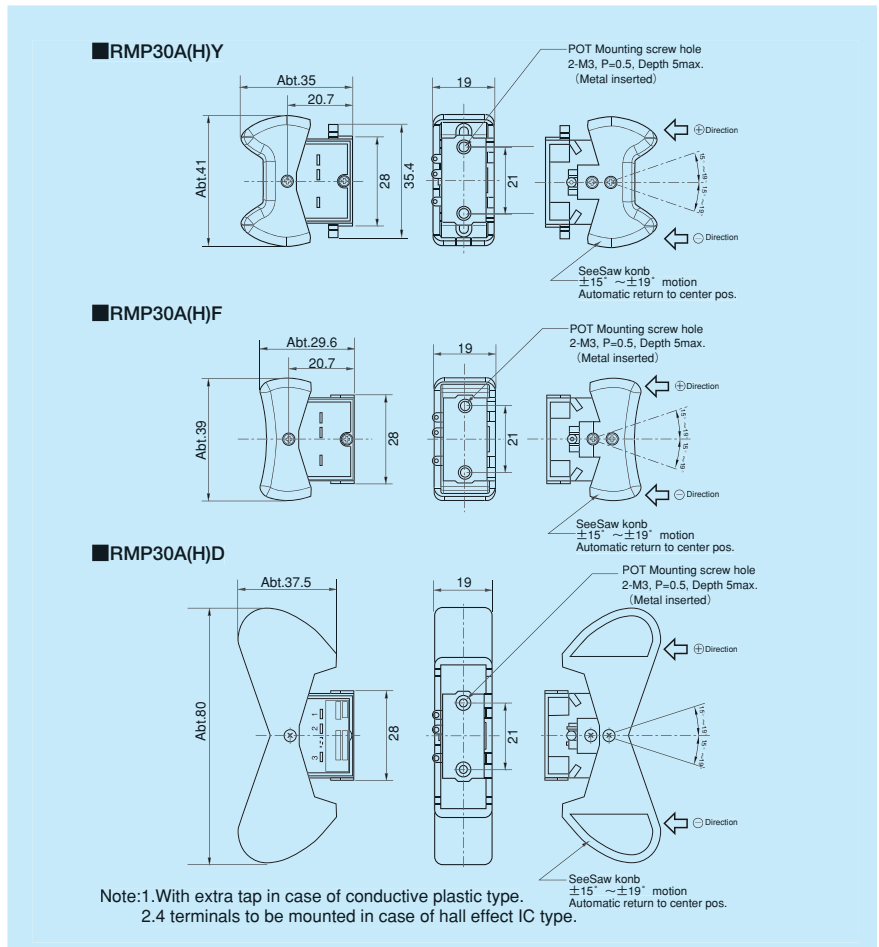
RMP30AF with flat shaped knob



RMP30AD with outstretched knob



RMP30HF with flat shaped knob



Seesaw motion ▶ Conductive plastic & Hall effect IC

● General Specifications · Environmental Specifications (Conductive plastic type)

Standard Resistance Value	10k (Ω)
Special Practical Resistance Values	1k, 2k, 5k, 20k (Ω)
Total Resistance Tolerance	$\pm 15\%$
Independent Linearity Tolerance	$\pm 3\%$
Output smoothness	Within 0.2% against input voltage
Contact Resistance Variation	Within 5% C.R.V.
Power Rating	0.1W
Electrical Travel	$30^\circ \pm 5^\circ$
Operating Angle Range	$\pm 15^\circ \sim \pm 19^\circ$ from center position
Center Returning Accuracy	$50\% \pm 3\%$

Insulation Resistance	Over 1,000M Ω at 500V.D.C.
Dielectric Strength	1 minute at 500V.A.C.
Operating Force	Approx. 24mN · m ~ 30mN · m (D type knob: Approx. 49mN · m ~ 60mN · m)
Mass	Approx. 20g
Resistance Temperature Coefficient	± 400 p.p.m/ $^\circ$ C
Operating Temperature Range	$-20^\circ\text{C} \sim +60^\circ\text{C}$
Vibration	10~55Hz 98m/s ²
Shock	294m/s ²
Protection Grade (IP)	Standard IP 40, Special IP54
Life Expectancy	Approx. 2,000,000 operations

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

Current Consumption	Approx. 7mA (Dual output type: Approx. 14mA)
Independent Linearity Tolerance	$\pm 3\%$ FS
Applied Voltage	5V.D.C. $\pm 10\%$
Load Resistance	10k Ω min.
Output Voltage range	Approx. 10%~90% V_{in}
Effective Electrical Angle	$30^\circ \pm 5^\circ$
Operating Angle Range	$\pm 15^\circ \sim \pm 19^\circ$ from center position
Center Returning Accuracy	$50\% \pm 3\%$
Insulation Resistance	Over 100M Ω at 250V.D.C.
Dielectric Strength	1 minute at 250V.A.C.

Operating Force	Approx. 24mN · m ~ Approx. 30mN · m (D type knob: Approx. 48mN · m ~ 60mN · m)
Output Temperature Characteristic	Within $\pm 2.5\%$ $V_{out} \cdot FS$
Drift at Center Position	Within $\pm 0.9\%$ $V_{out} \cdot FS$
Mass	Approx. 20g
Operating Temperature Range	$-20^\circ\text{C} \sim +60^\circ\text{C}$
Vibration	10~55Hz 98m/s ²
Shock	294m/s ²
Protection Grade (IP)	IP65
Life Expectancy	Approx. 5,000,000 operations
EMC Durability	100V/m
ESD Durability	± 8 kV contact discharge/ ± 15 kV aerial discharge (Based on IEC 61000-4-2)

● Special Specifications Available

(In case of the potentiometer with special specifications, the general specifications and environmental specifications may change. Please consult us in advance.)

Conductive plastic type ● Extra tap (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)