

Compact/Long-life Rotary Sensor

NEW
2011

RDC90 Series

Smaller size and 100 million cycles durability achieved.



Features

- Compact and low-profile size of 11 x 13.7 x 3.2mm (WxDxH)
- High durability: 100 million dither cycles, 10 million full cycles
- Micro-linearity: within $\pm 0.1\%$

Applications

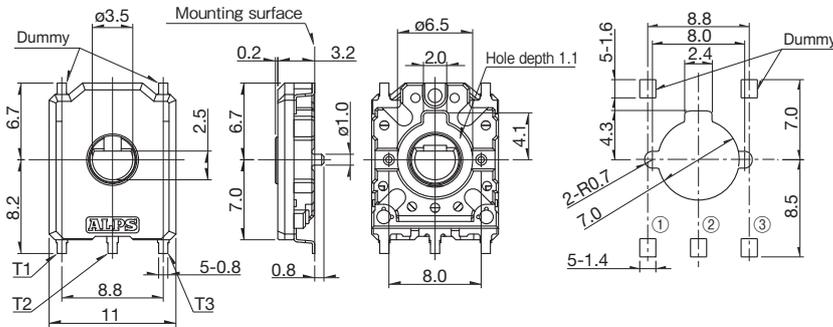
- Stick controllers of radio control toys (PROPO; Proportional System)
- Angle or position detection for robot joints, air-conditioning system air mixture door, and equipment of professional use.

Typical Specifications

Items	Specifications
Dimensions (WxDxH)	11 x 13.7 x 3.2mm
Total resistance	3k Ω $\pm 30\%$
Electric detection angle	± 40 deg.
Durability	100 million dither cycles, 10 million full cycles
Linearity	$\pm 2.2\%$ (2.5V reference point)
Micro-linearity (± 3 deg. @100Hz)	$\pm 0.1\%$ max.

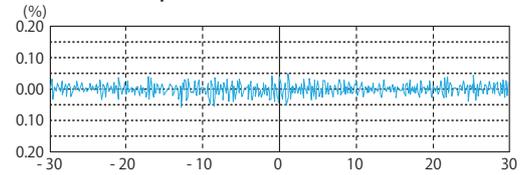
Dimensions/ PC Board Mounting Hole Dimensions (Viewed from Mounting Side)

Unit:mm

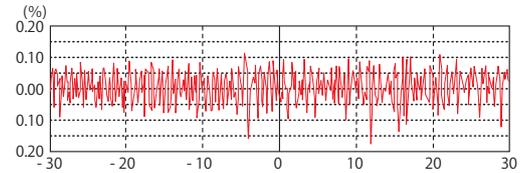


Micro-linearity

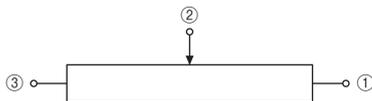
Specular resistive element



Conventional resistive element



Circuit Diagram



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6. The contents of this catalog are according to Alps Electric as of May 2011.
7. This catalog is valid until the end of December 2011.

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