

RDCC0 Magnetic Rotary Type

Non-contact magnetic rotary sensor achieving high precision and long life



Typical Specifications



Items	Specifications
Rated Voltage	5V DC
Operating life	10,000,000 cycles
Total resistance	0.3V to 4.3V
Operating temperature range	0°C to +50°C

Product Line

Mounting method	Effective electrical angle	Linearity guarantee range	Linearity	Style of lever	Minimum order unit (pcs.)		Model No.
					Japan	Export	
Connector type	30°	±15°	±2%	Flat type	720	720	RDCC010002

Packing Specifications

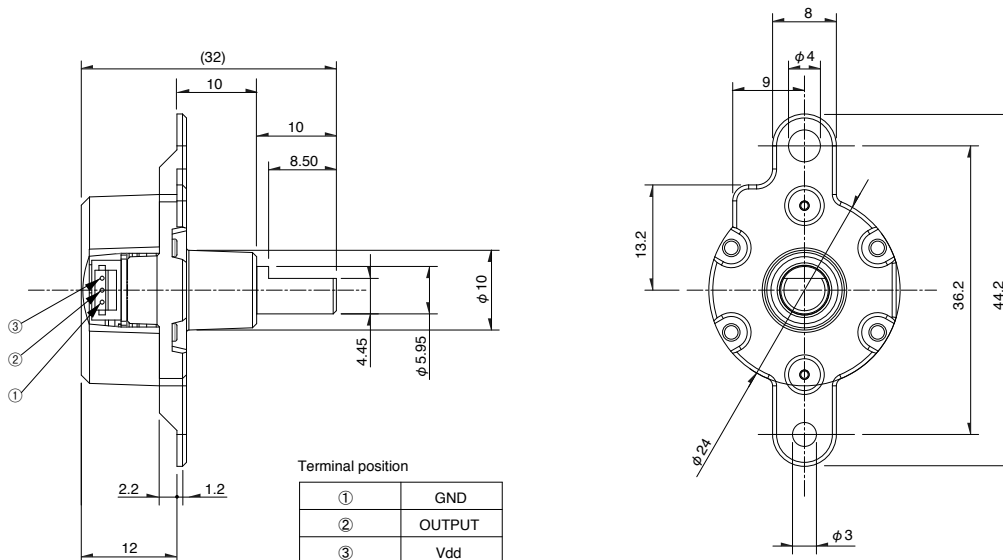
Tray

Number of packages (pcs.)		Export package measurements (mm)
1 case /Japan	1 case /export packing	
720	720	540×360×250









Dimensions

Unit:mm

Style



Refer to P.466 for product specifications.

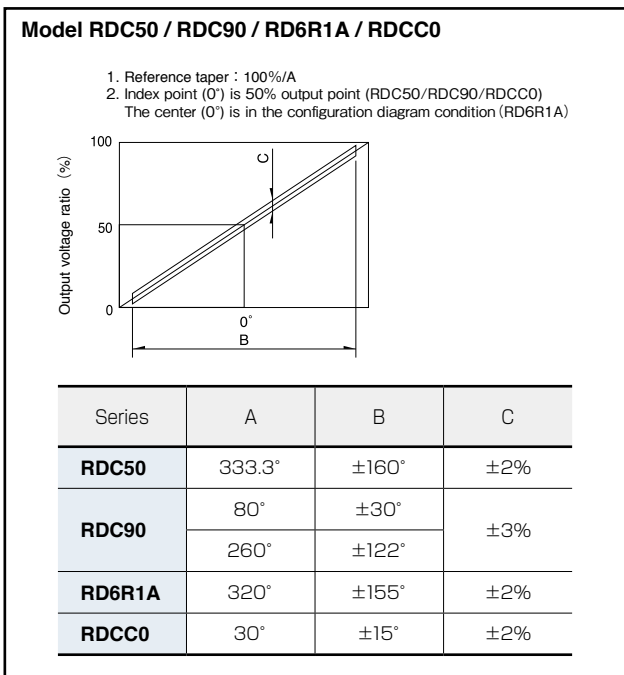
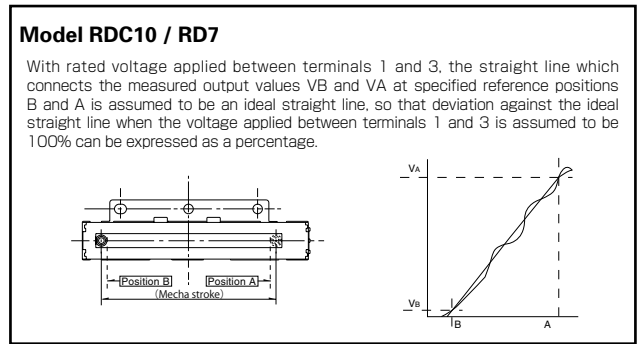
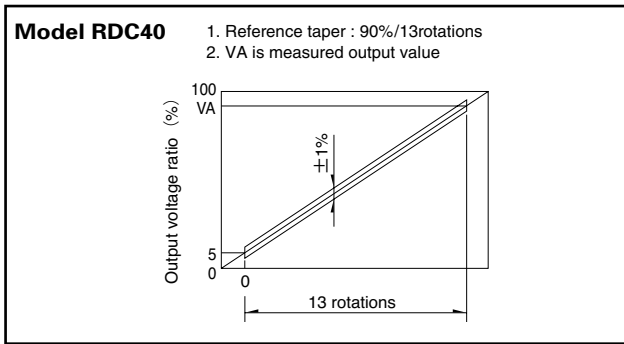
Type	Magnetic Rotary Type	Linear Type			
Series	RDCC0	RDC1010	RDC10	※ RD7	
Photo					
Direction of lever	Vertical			Vertical Horizontal	
Effective electrical angle (°)	30	—	—	—	
Linearity guarantee range (°)	±15	—	—	—	
Travel	—	10mm	14mm 22mm 32mm 47mm	8mm 12mm 8mm 9mm 12mm	
Operating temperature range	0°C to +50°C	-30°C to +85°C		-40°C to +105°C	
Operating life	10,000,000 cycles	50,000 cycles	200,000 cycles	100,000 cycles	
Available for automotive use	—	—	●	●	
Life cycle (availability)					
Mechanical performance	Operating force	—	0.25N max.		
	Rotational torque	5mN·m max.	—	—	
Electrical performance	Total resistance tolerance	—	±30%		
	Linearity (%)	±2	±0.5		
	Rated voltage (V DC)	5			12
Environmental performance	Cold	-40°C 240h			-40°C 96h
	Dry heat	85°C 240h	80°C 240h	90°C 240h	105°C 96h
	Damp heat	60°C, 90 to 95%RH 240h			40°C, 90 to 95%RH 96h
Terminal style	Connector	Insertion	Lead terminal/Insertion	Insertion	
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Notes

1. ※ The RD7 series are used to detect vehicle headlight angles.
2. ● Indicates applicability to all products in the series.

Method for Regulating the Linearity



Resistive Position Sensors / Measurement and Test Methods

Resistive Position Sensor

[Total Resistance]

The total resistance, with the shaft (lever) placed at the end of terminal 1 or 3, shall be determined by measuring the resistance between the resistor terminals 1 and 3 unless otherwise specified.

[Rating Voltage]

The rating voltage corresponding to the rated power shall be determined by the following equation. When the resulting rated voltage exceeds the maximum operating voltage of a specific resistor, the maximum operating voltage shall be taken as the rated voltage.

$$E = \sqrt{P \cdot R}$$

E : Rated voltage (V)
P : Rated power (W)
R : Total nominal resistance (Ω)

Resistive Position Sensors
Rotary Type
Linear Type

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