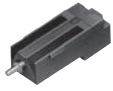













Resistive Position Sensors

List of Varieties

Type	Rotary Type					Magnetic Rotary Type	
Series	RDC40	RDC50	RDC90	RDC80	RD6R1A	RDCC0	
Photo							
Direction of lever	Horizontal	Vertical Horizontal	Vertical				
Effective electrical angle (°)	5,400 (15 rotations)	333.3	80,260	340 (1-phase) 360 (2-phase)	320	30	
Linearity guarantee range (°)	4,680 (13 rotations)	320	60,244	330 (1-phase) 360 (2-phase)	310	±15	
Travel	—	—	—	—	—	—	
Operating temperature range	−30°C to +80°C	−40°C to +120°C			−40°C to +85°C	0°C to +50°C	
Operating life	100,000 cycles	1,000,000 cycles	10,000,000 cycles	20,000 cycles	500,000 cycles	10,000,000 cycles	
Available for automotive use	●	●	●	●	●	—	
Life cycle (availability)							
Mechanical performance	Operating force	—	—	—	—	—	
	Rotational torque	1.96mN·m max.	2mN·m max.		10mN·m max.	100mN·m	5mN·m max.
Electrical performance	Total resistance tolerance	±30%				±20%	—
	Linearity (%)	±1	±2	±3		±2 (320°)	±2
	Rated voltage (V DC)	5					
Environmental performance	Cold	−30°C 240h	−40°C 168h			−40°C 240h	
	Dry heat	80°C 240h	120°C 168h			85°C 168h	85°C 240h
	Damp heat	60°C, 90 to 95%RH 240h	60°C, 90 to 95%RH 96h			80°C, 90 to 95%RH 96h	60°C, 90 to 95%RH 240h
Terminal style	Connector	Insertion / Reflow	Reflow		Connector		
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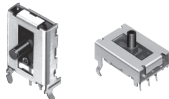



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Note

- Indicates applicability to all products in the series.

Resistive Position Sensors

List of Varieties

Type	Linear Type		
Series	RDC1010	RDC10	※ RD7
Photo			
Direction of lever	Vertical		Vertical Horizontal
Effective electrical angle (°)	—	—	—
Linearity guarantee range (°)	—	—	—
Travel	10mm	14mm 22mm 32mm 47mm	8mm 12mm 8mm 9mm 12mm
Operating temperature range	-30°C to +85°C		-40°C to +105°C
Operating life	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	—	—
Electrical performance	Total resistance tolerance	±30%	
	Linearity (%)	±0.5	
	Rated voltage (V DC)	5	
Environmental performance	Cold	-40°C 240h	
	Dry heat	80°C 240h	90°C 240h
	Damp heat	60°C, 90 to 95%RH 240h	
Terminal style	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.