Index for Functions

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Rotary Type	RDC40		Connector type	13rotations	——	20
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	RDC502		Vertical type			
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	RDC506		Reflow type (Low-profile)			
	RDC80		Reflow type	330° (1-phase) 360° (2-phase)		24
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Note

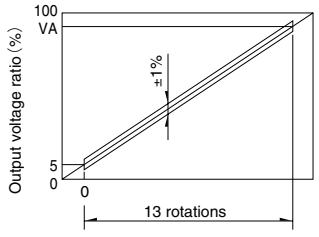
※The RD7 series are used to detect vehicle headlight angles.

Product Specifications

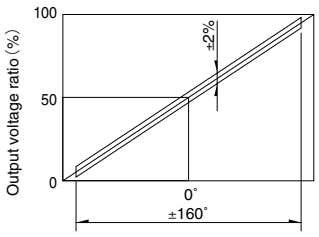
Item \ Style / Model		Rotary type			Linear type	
		RDC40	RDC501/RDC502/RDC503/RDC506	RDC80	RDC10	RD7
Operating temperature range		−30℃ to +80℃	−40℃ to +120℃		−30℃ to +85℃	−40℃ to +105℃
Electric performance	Total resistance tolerance	±30%				±20%
	Resistance taper	Linear				
	Rated voltage	5V DC				12V DC
	Max. operating voltage	18V DC	16V DC		5V DC	18V DC
	Linearity	±1%	±2%	±3%	±0.5%	±1%
Mechanical performance	Effective variable range	13rotations	320°	330° (1-phase) 360° (2-phase)	S (travel) −2mm	S (travel)
	Rotational angle	———	(Without stopper)		———	
	Rotational torque	2mN·m max.		10mN·m max.		
	Operating force	———			0.25N max.	2N less.
Durability	100,000cycles	●	———	●	———	●
	200,000cycles	———			●	———
	1,000,000cycles	———	●	———		

Method for Regulating the Linearity

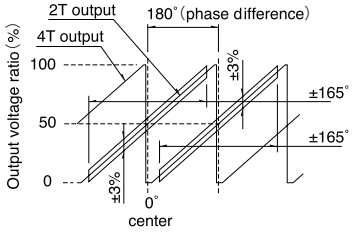
Model RDC40 1. Reference taper : 90%/13rotations
2. VA is measured output value



Model RDC50 1. Reference taper : 100%/333.3°
2. Index point is 50% output point



Model RDC80 1. Reference taper : 100%/340°
2. The center is in the configuration diagram condition



Model RDC10/RD7
With rated voltage applied between terminals 1 and 3, the straight line which connects the measured output values VB and VA at specified reference positions B and A is assumed to be an ideal straight line, so that deviation against the ideal straight line when the voltage applied between terminals 1 and 3 is assumed to be 100% can be expressed as a percentage.