Linear Type (Exclusively Used to Detect the Angle of Vehicle Head Lights)

Exclusive for headlight angle detection with high accuracy and space-saving design







■ Typical Specifications

Items	Specifications		
Rated Voltage	12V DC		
Operating life	2N max.		
Total resistance	100,000 cycles		
Operating temperature range	-40℃ to +105℃		

Product Line

Travel	Control part	Total resistance	Linearity	Minimum order unit (pcs.)		Model No.	Drawing
(mm)	orientation	Total resistance	Linearity	Japan	Export	Model No.	No.
8	Horizontal type	4.7kΩ		2,000	4,000	RD708A029A	1
	Vortical type	Vertical type 5kΩ	±1%	1,500	3,000	RD7081015A	2
9	- Vertical type			1,800	3,600	RD7091008A	3
12	Horizontal type	2.2kΩ		2,000	4,000	RD712A028A	1
	Vertical type	Vertical type 10kΩ		1,800	3,600	RD7121008A	4

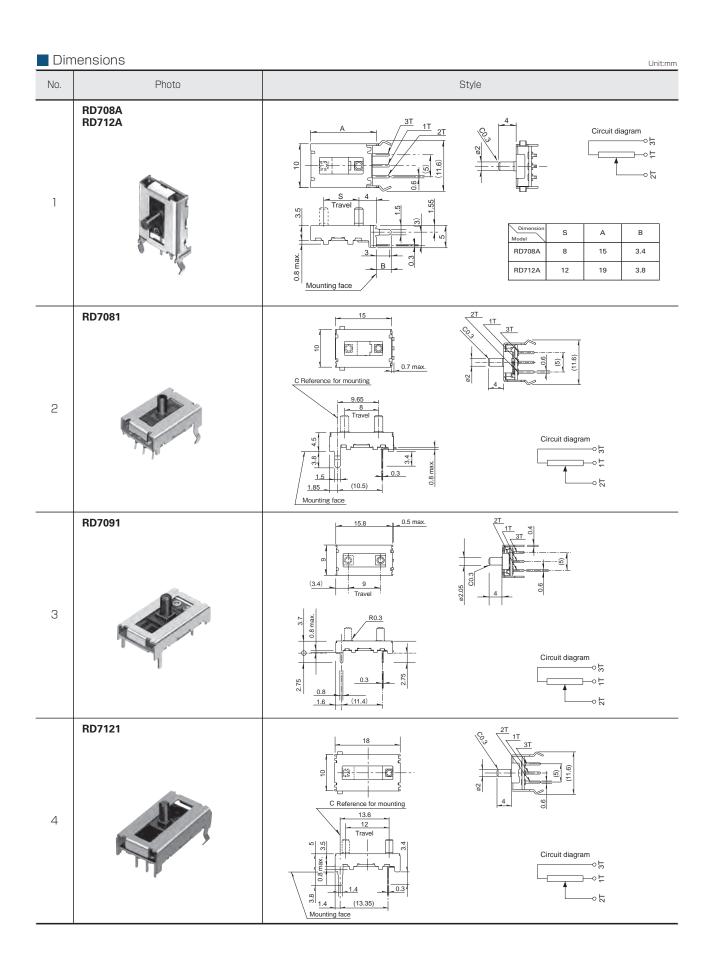
Note

For linearity, various specifications will be available, depending on the applications. Please consult with us when placing your orders.

Packing Specifications

Tray

Model No.	Control part	Number of pa	ckages (pcs.)	Export package measurements (mm)	
Model No.	orientation	1 case /Japan	1 case /export packing		
RD708	Horizontal type	2,000	4,000	527×363×215	
KD700	· Vertical type	1,500	3,000	507×363×216	
RD709	vertical type	1,800	3,600	508×364×192	
RD712	Horizontal type	2,000	4,000	527×363×118	
ND/12	Vertical type	1,800	3,600	507×363×216	





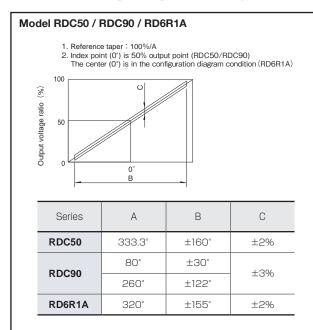
	Туре	Linear Type						
	Series	RDC1010	RD	RDC10				
	Photo			NEW				
Direction of lever		Vertical			Horizontal	Vertical		
Linearity guarantee range 9.2mm		12mm 21mm 31mm 46mm	85mm	6mm 9mm	6mm 7mm 9mm			
	Travel	10mm	14mm 22mm 32mm 47mm	87mm	8mm 8mm 9mm 12mm 12mm			
Operating t	emperature range	−30°C t	C to +85℃		−40°C to +105°C			
Оре	erating life	50,000 cycles	200,000 cycles	100,000 cycles	100,000 cycles			
Available fo	or automotive use	_	•	_	•			
Life cyc	le (availability)	* 2	₹ 2		*2			
Mechanical performance	Operating force	0.251	N max.		2N max.			
	Total resistance tolerance	±3	±30%		±20%			
Electrical performance	Linearity (%)	±0.5	±0.5		±1			
	Rated voltage (V DC)	5			12			
	Cold	-40°C	-40℃ 240h			−40°C 96h		
Environmental performance	Dry heat	80°C 240h	90°C 240h	85℃ 240h	105°C	105℃ 96h		
	Damp heat	60°C, 90 to 9	60°C, 90 to 95%RH 240h		60°C, 90 to 95%RH 240h		40°C, 90 to 95%RH 96h	
Ten	minal style	Insertion	Lead terminal/ Insertion	Insertion	Insertion			
	Page	4.	421			24		

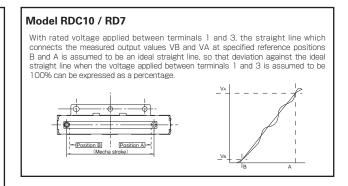
Notes

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

Resistive Position Sensors / Product Specifications

Method for Regulating the Linearity





Resistive Position Sensors / Measurement and Test Methods

Resistive Position Sensor

(Total Resistance)

Unless otherwise specified, total resistance is the resistance measured between resistor terminals 1 and 3.

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