





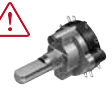








Rotary Switches

List of Varieties

Series	SRBD	SRBQ		SRBM		SRBV	SRRM	SRRN																																																
		Insertion	Reflow type	Rotary	Pulse																																																			
Photo																																																								
Angle of throw	36°	40±3°		30±3°	18±3°	30±3°																																																		
Number of poles	1		1, 2		1	1, 2, 3, 4	2, 3, 4																																																	
Rotational torque	13±5mN·m	6±3mN·m 13±5mN·m		40±20mN·m 15±7mN·m		30±15mN·m	80±30mN·m (Shorting) 70±30mN·m (Non shorting)	70±30mN·m																																																
Dimensions (mm)	W	10		10		16.2	—	—																																																
	D	11.4		12.4		18.5																																																		
	H	3.5		11		7.5																																																		
Operating temperature range	-25°C to +85°C	-10°C to +60°C		-30°C to +85°C		-10°C to +85°C	-10°C to +60°C	-30°C to +65°C																																																
Automotive use	—	—		—		—	—	—																																																
Life cycle																																																								
Rating (max.)/(min.) (Resistive load)	1mA 5V DC 50µA 3V DC	0.1A 16V DC 50µA 3V DC				0.3A 16V DC 50µA 3V DC	0.25A 30V DC 50µA 3V DC	0.15A 12V DC 50µA 3V DC																																																
Durability	Operating life without load	10,000 cycles 250mΩ max.	10,000 cycles 100mΩ max.		30,000 cycles 100mΩ max.	10,000 cycles 100mΩ max.	10,000 cycles 40mΩ max.	10,000 cycles 70mΩ max.																																																
	Operating life with load Load: as rating	10,000 cycles 250mΩ max.	10,000 cycles 100mΩ max.	10,000 cycles 150mΩ max.		10,000 cycles 60mΩ max.	10,000 cycles 100mΩ max.																																																	
Electrical performance	Initial contact resistance	200mΩ max.	50mΩ max.				20mΩ max.	50mΩ max.																																																
	Insulation resistance	100MΩ min. 100V DC					100MΩ min. 500V DC																																																	
	Voltage proof	100V AC for 1minute					500V AC for 1minute																																																	
Mechanical performance	Terminal strength	3N for 1minute	5N for 1minute				10N for 1minute	5N for 1minute																																																
	Actuator strength	Operating direction	—	—	0.5N·m	—	0.6N·m	1N·m																																																
		Pulling direction	50N	20N	100N																																																			
	Wobble of actuator	Load at the tip of shaft SRRM, SRBM, SRRN: 5N, SRBQ, SRBV: 1N The below table shows for SRRM, SRBM, SRRN The below table shows for SRBQ The below table shows for SRBV																																																						
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Measuring position from mounting surface</th> <th>Shaft wobble (max. value)</th> <th>Applicable mounting dimension</th> <th>Distance from mounting surface to the tip of shaft</th> <th>Shaft wobble (max. value)</th> <th>Measuring position from mounting surface</th> <th>Shaft wobble (max. value)</th> <th>Applicable mounting dimension</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.17</td> <td>15</td> <td>below 5</td> <td>0.5</td> <td>10</td> <td>0.2</td> <td>15</td> </tr> <tr> <td>15</td> <td>0.25</td> <td>20</td> <td>above 5 and below 10</td> <td>0.9</td> <td>15</td> <td>0.3</td> <td>20</td> </tr> <tr> <td>20</td> <td>0.35</td> <td>25</td> <td>above 10 and below 15</td> <td>1.2</td> <td>20</td> <td>0.4</td> <td>25</td> </tr> <tr> <td>25</td> <td>0.42</td> <td>30</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>30</td> <td>0.5</td> <td>above 35</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: right;">Unit:mm</p>									Measuring position from mounting surface	Shaft wobble (max. value)	Applicable mounting dimension	Distance from mounting surface to the tip of shaft	Shaft wobble (max. value)	Measuring position from mounting surface	Shaft wobble (max. value)	Applicable mounting dimension	10	0.17	15	below 5	0.5	10	0.2	15	15	0.25	20	above 5 and below 10	0.9	15	0.3	20	20	0.35	25	above 10 and below 15	1.2	20	0.4	25	25	0.42	30						30	0.5	above 35					
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Environmental performance	Cold	-40°C 500h	-20°C 96h	-40°C 96h	-20°C 96h			-40°C 96h																																																
	Dry heat	85°C 500h	85°C 96h																																																					
	Damp heat	60°C, 90 to 95%RH 500h	40°C, 90 to 95%RH 96h																																																					
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*Products marked with a  are not recommended for new designs