

11mm Size Metal Shaft Type EC11 Series

Structure		Vertical	
Actuator configuration		Flat	
Actuator length		20mm	
Number of detent		36	
Number of pulse		18	
Push-on switch		With	
Travel of push-on switch		0.5mm	
Operating life		15,000 cycles	
Operating temperature range		-40℃ to +85℃	
Electrical	Ratings	10mA 5V DC	
performance	Output signal	Two phase A and B	
	Max./min. operating current(Resistive load)	10mA/1mA	
	Insulation resistance	100MΩ min. 250V DC	
	Voltage proof	300V AC for 1 minute or 360V AC for 2s	
Mechanical performance	Detent torque	10±7mN⋅m	
performance	Push-pull strength	100N	
Push-on switch specifications	Contact arrangement	Single pole single throw (Push-on)	
	Travel	0.5±0.3mm	
	Operating force	6(+2.5, -2)N	
	Rating	0.1A 5V DC (500µA 5V DC min. ratings)	

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 EC11 Series - Basic information

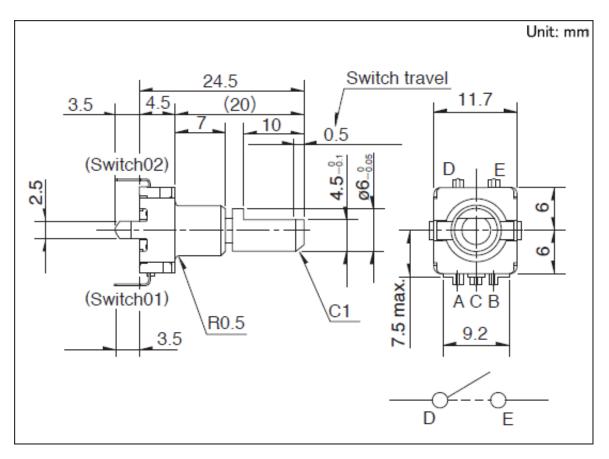
 Contact resistance (Initial performance/After lifetime)
 100mΩ max./200mΩ max.

 Operating life
 20,000 times

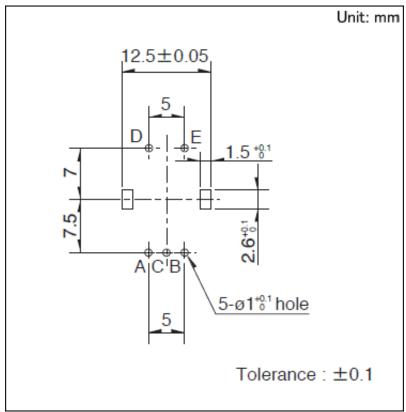
 Minimum order unit (pcs.)
 Japan
 1,200

 Export
 2,400

Dimensions

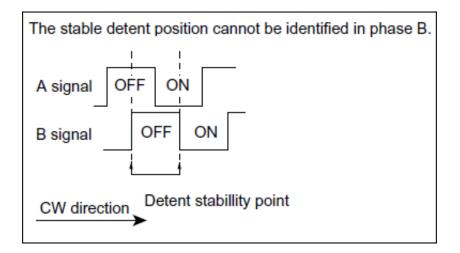


Mounting Hole Dimensions

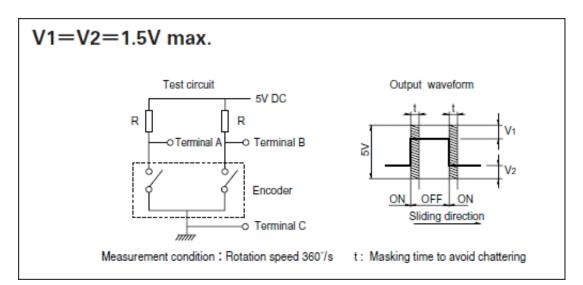


Viewed from mounting side.

Output Wave



Sliding Noise



At R=5k Ω Chattering: 3ms max. Bounce: 2ms max.

Packing Specifications

Tray

Number of packages (pcs.)	s 1 case / Japan	1,200
()	1 case / export packing	2,400
Export package mea	surements (mm)	540×360×250

Soldering Conditions

Reference for Dip Soldering

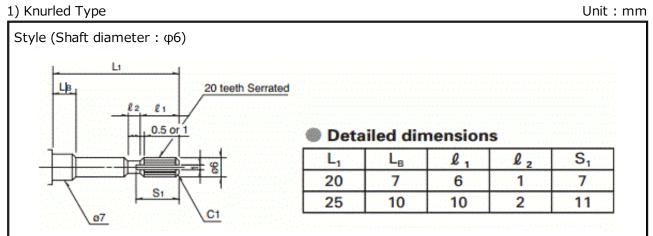
Preheating	Soldering surfacetemperature	100℃ max.
	Heating time	2 min. max.
Dip soldering	Soldering temperature	260±5℃
	Soldering time	5±1s
No. of solders		2 time max.

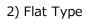
Reference for Hand Soldering

Tip temperature	350℃ max.
Soldering time	3s max.
No. of solders	1 time

Product Varieties

Single-shaft Type





LB		L ₁	L	l
e l	*1	15	5	7
		15	7	5 (6)
		20	7	10 (12)
	*2	25	10	12

Values in parentheses apply to products without push-on switch.

3) Slotted Type		Unit : m
Style (Shaft diameter : φ6)		
	Detailed dimension	sions
LB1.6	L ₁	L _B
	15	7
	20	7
C0.5 *	25	10
<u>\07</u> <u>\0000</u>	※ L ^B =7 for EC11B.	

Notes are common to this series/models.

- 1. This site catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
- 2. Please place purchase orders per minimum order unit (integer).
- 3. Products other than those listed in the above chart are also available. Please contact us for details.
- 4. This products can be used in vehicles.

Although these products are designed to perform over a wide operating temperature range, please ensure that you receive and read the formal delivery specifications before use.