

11mm Size Metal Shaft Type EC11 Series

Structure		Vertical
Actuator configuration		Flat
Actuator length		20mm
Number of detent		30
Number of pulse Push-on switch		15
		With
Travel of push-on switch		1.5mm
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	Detent torque	10±7mN·m
performance	Push-pull strength	100N
Push-on switch specifications	Contact arrangement	Single pole single throw (Push-on)
	Travel	1.5±0.5mm
	Operating force	4.00
	Rating	0.1A 5V DC (500μA 5V DC min. ratings)
	Contact resistance (Initial	100m Ω max./200m Ω max.

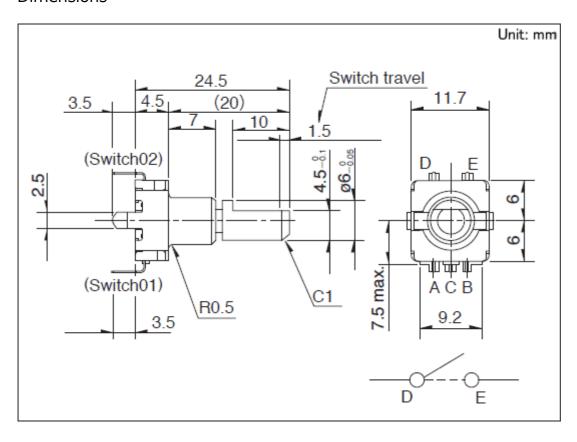
performance/After lifetime)

Operating life 20,000 times

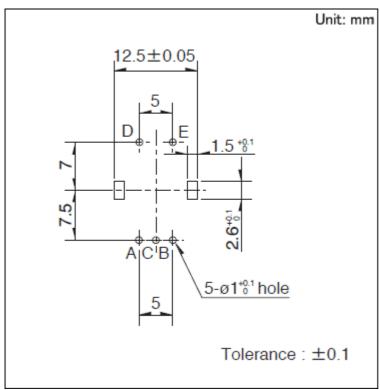
Minimum order unit (pcs.)

Export 2,400

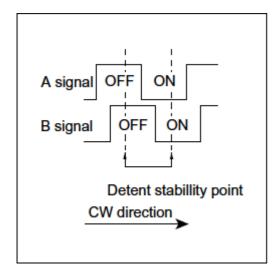
Dimensions



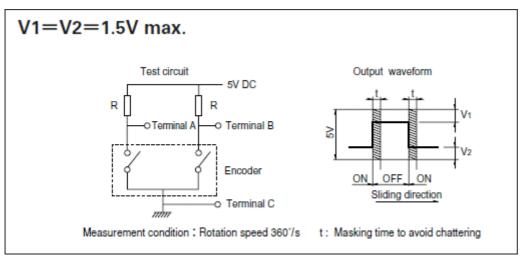
Mounting Hole Dimensions



Output Wave



Sliding Noise



At $R=5k\Omega$ Chattering: 3ms max. Bounce: 2ms max.

Packing Specifications

Number of packag (pcs.)	es 1 case / Japan	1,200
(pcs.)	1 case / export packing	2,400
Export package measurements (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.			

1 time

Product Varieties

Single-shaft Type

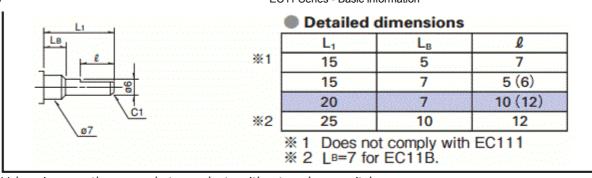
No. of solders

1) Knurled Type Unit: mm Style (Shaft diameter : φ6) 20 teeth Serrated 0.5 or 1 Detailed dimensions e, S L_B l 2 20 7 6 1 7 10 25 10 2 11

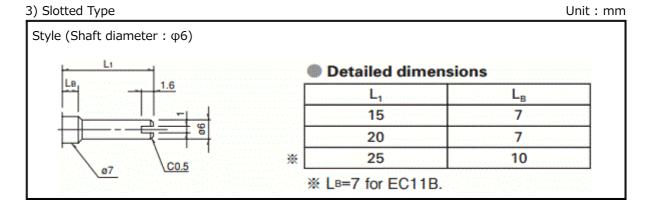
2) Flat Type

Unit : mm

Style (Shaft diameter : φ6)



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



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.