

12mm Size Insulated Shaft Type EC12 Series

With Switch Type (Vehicle-compatible)

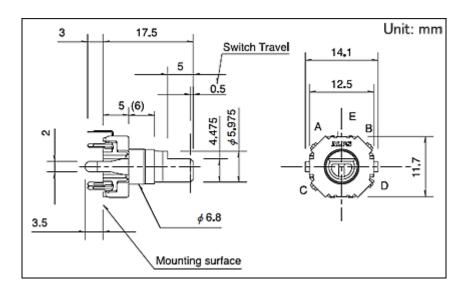
Part number		EC12D1564402
Actuator length		17.5mm
Detent torque		10±5mN·m
Number of detent		30
Number of pulse		15
Operating direction		Vertical
Operating force of switch		3N
Travel of push-on switch		0.5mm
Operating temperature range		-40℃ to +85℃
Electrical performance	Ratings	1mA 5V DC
	Output signal	Two phase A and B
	Max./min. operating current(Resistive load)	10mA/1mA
	Insulation resistance	e 100MΩ min. 250V DC
	Voltage proof	300V AC for 1 minute or 360V AC for 1s

Mechanical	Detent torque	10±5mN·m
performance	Deterit torque	10+31111.111
	Push-pull strength	100N
Durability	Operating life	30,000 cycles
Push-on switch specifications	Contact arrangement	Single pole single throw (Push-on)
	Travel	0.5±0.3mm
	Operating force	3(+1.5, -1)N
	Rating	1mA 5V DC (10mA 5V DC max. ratings)
	Contact resistance (Initial performance/After lifetime)	100 m Ω max./ 200 m Ω max.
	Operating life	30,000 times
Minimum order unit (pcs.)	Japan	1,280
	Export	2,560

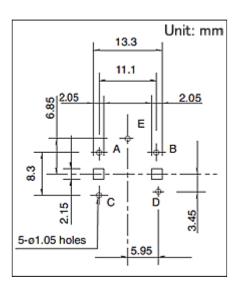
Photo



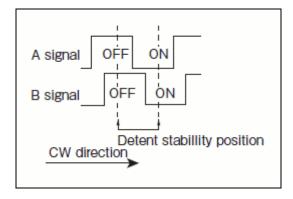
Dimensions



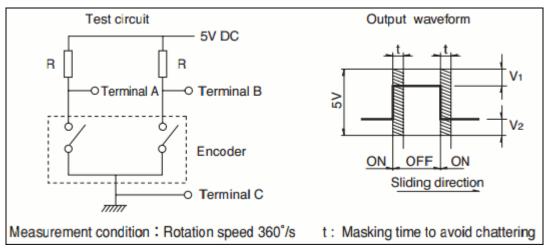
Mounting Hole Dimensions



Output Wave



Sliding Noise



V1 = V2 = 2.5V max.

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

Packing Specifications

Tray		
Number of packages 1 case / Japan (pcs.)		1,280
· /	1 case / export packing	2,560
Export package measurements (mm)		360×540×290

Soldering Conditions

Reference for Dip Soldering

Preheating	Soldering surfacetemperature	100°C max.
	Heating time	1 min. max.
Dip soldering	Soldering temperature	260±5℃
	Soldering time	3±1s

No. of solders	2 time max.
Reference for Hand Soldering	
Tip temperature	350℃ max.
Soldering time	3s max.
No. of solders	1 time

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. Nuts and washers are not included. If required, please contact us.
- 5. This products can be used in vehicles. (EC12D only)
 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.