



## 12mm Size Insulated Shaft Type EC12 Series

## ● Detail

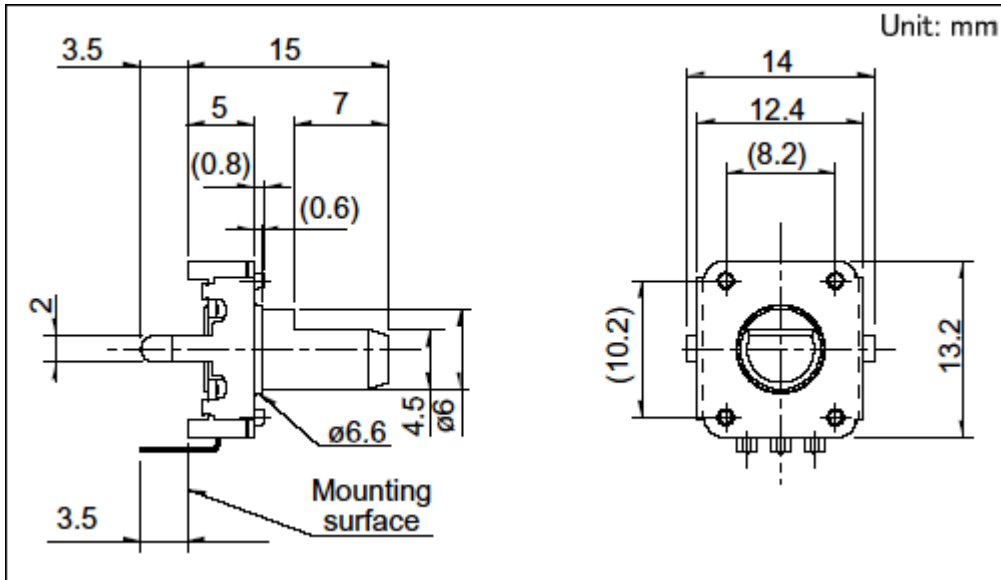
Part number		EC12E24204A2	
Actuator length		15mm	
Torque		Standard 3 to 20mN·m	
Number of detent		24	
Number of pulse		24	
Operating direction		Vertical	
Minimum order unit (pcs.)		2,400	
Operating temperature range		-10°C to +70°C	
Maximum operating current (Resistive load)		10mA	
Electrical performance	Ratings		0.5mA 5V DC
	Output signal		Output of A and B signals, proportionate to phase difference
	Insulation resistance		10M $\Omega$ min. 50V DC
	Voltage proof		50V AC for 1 minute
Mechanical performance	Detent torque		3 to 20mN·m
	Push-pull strength		80N
	Resistance to soldering heat	Manual soldering	350°C max. 3s max.
		Dip soldering	260 $\pm$ 5°C, 3 $\pm$ 1s
Durability	Operating life		30,000 cycles
Environmental performance	Cold		-40 $\pm$ 3°C for 10h
	Dry heat		85 $\pm$ 3°C for 10h
	Damp heat		60 $\pm$ 2°C, 90 to 95%RH for 10h
Certificate of Compliance to RoHS regulations			

•• Photo

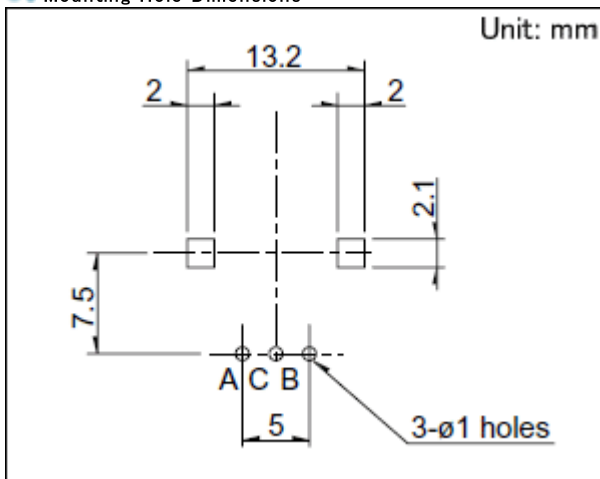


Short shaft

•• Dimensions

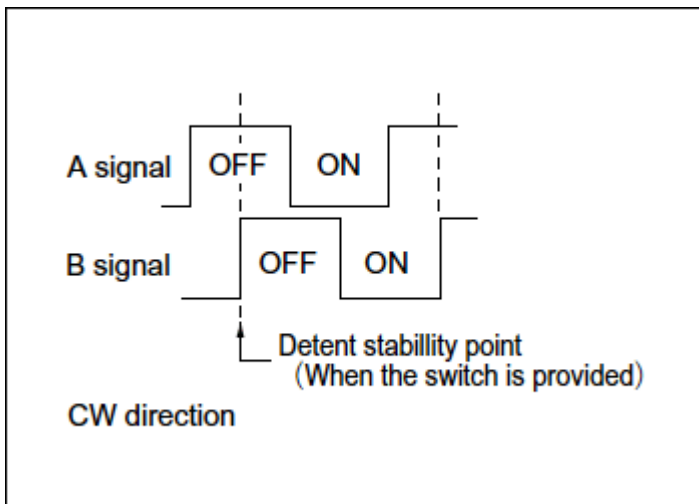


•• Mounting Hole Dimensions

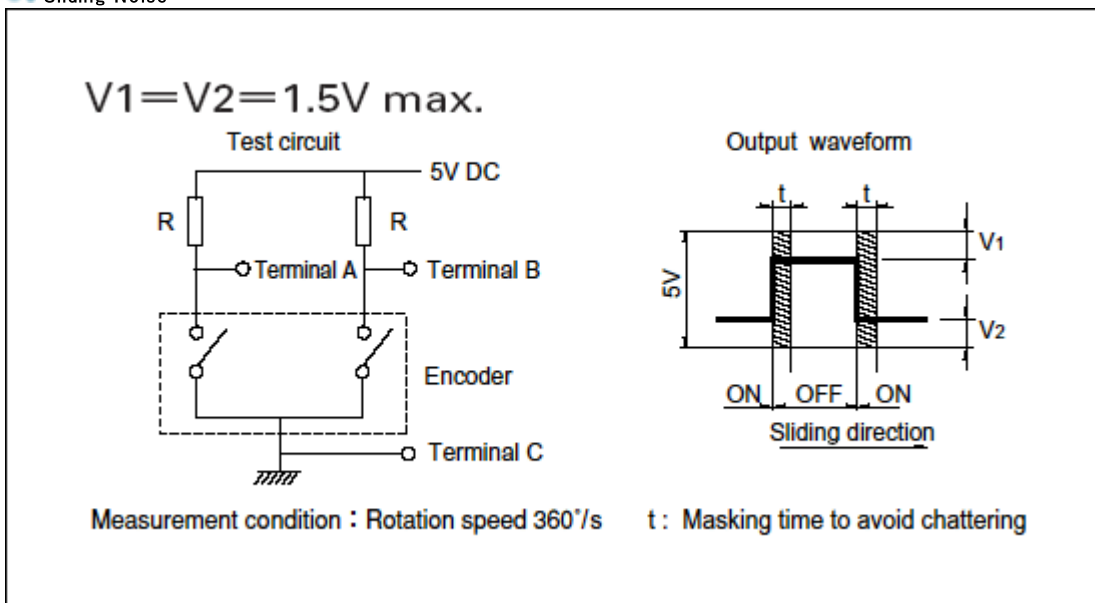


Viewed from mounting face.

•• Output Wave



#### Sliding Noise



At  $R=10k\Omega$  Chattering: 3ms max. Bounce: 2ms max.

#### Packing Specifications

Number of packages (pcs.)		Export package measurements (mm)
1 case /Japan	1 case /export packing	
1,200	2,400	374×529×213

#### NOTE

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.



#### Inquiries about Products

For more information please contact: Products Information Center.

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