



12mm Size Insulated Shaft Type EC12 Series


[| Dimensions](#) | [Mounting Hole Dimensions](#) | [Output Wave](#) | [Sliding Noise](#) | [| Packing Specifications](#) | [Soldering Conditions](#) |





Part number  
**EC12D1564404**

 **NET SHOP**

 **3D CAD**

 **RoHS**

 **Print**

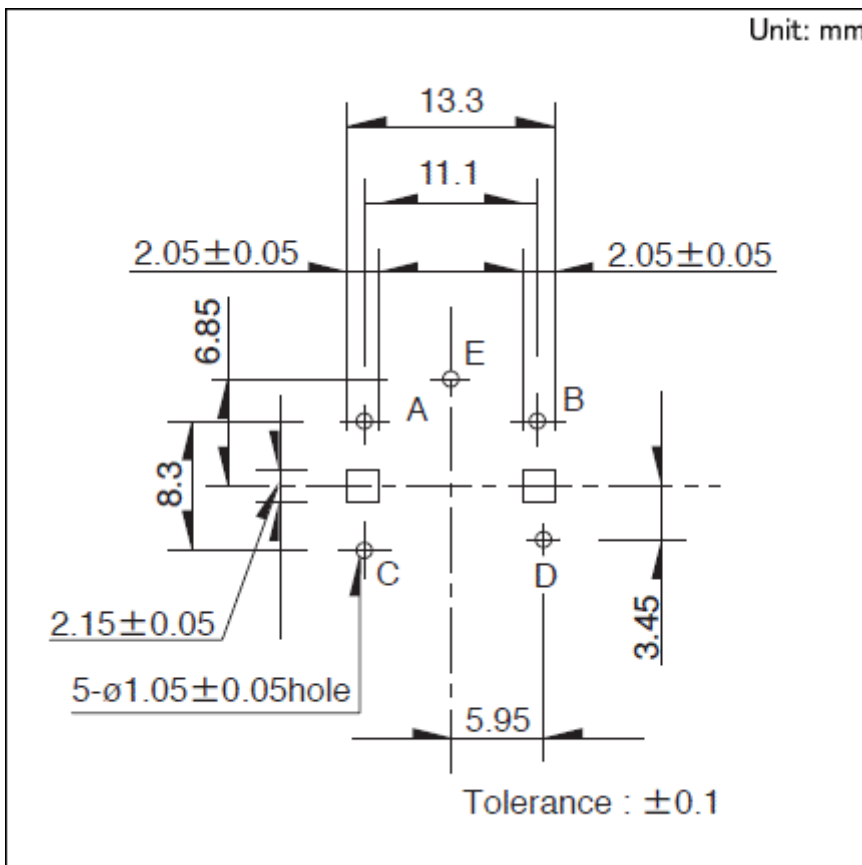
 **Inquiry**

With Switch Type (Vehicle-compatible)

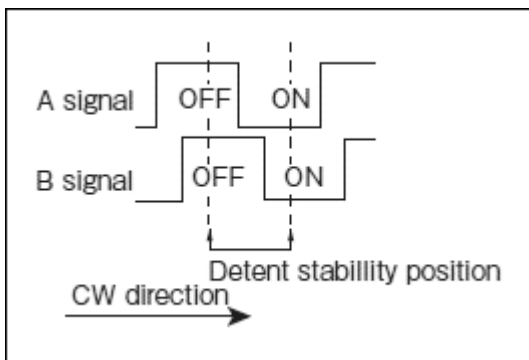
Actuator length		17.5mm
Detent torque		10±5mN·m
Number of detent		30
Number of pulse		15
Control part orientation		Vertical
Operating force of switch		6N
Travel of push-on switch		0.5mm
Operating temperature range		-40°C to +85°C
Electrical performance	Ratings	1mA 5V DC
	Output signal	Two phase A and 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 1s
Mechanical performance	Detent torque	10±5mN·m
	Push-pull strength	100N



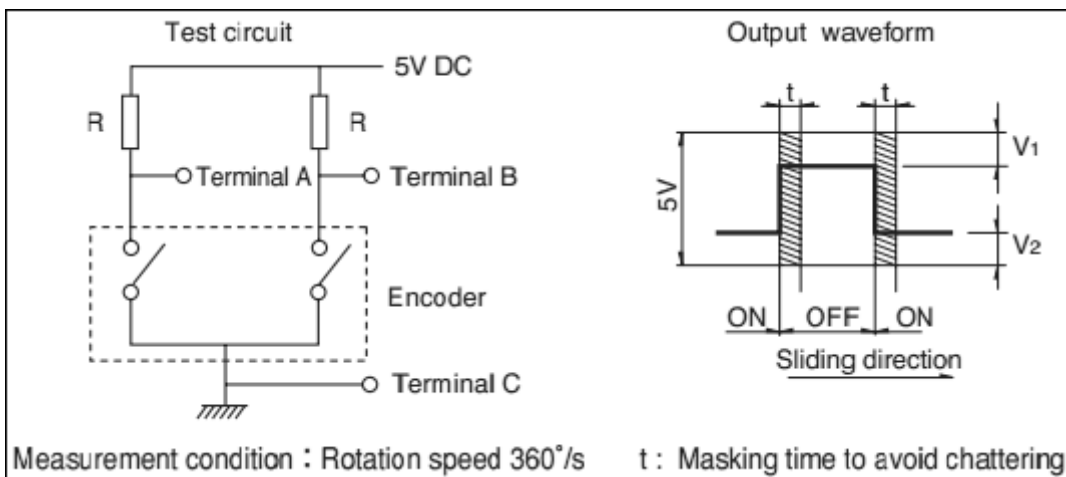




## Output Wave



## Sliding Noise



$V_1 = V_2 = 2.5\text{V max.}$

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



---

## Packing Specifications

### Tray

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

---

## Soldering Conditions

### Reference for Dip Soldering

Preheating	Soldering surfacetemperature	100°C max.
	Heating time	1 min. max.
Dip soldering	Soldering temperature	260±5°C
	Soldering time	3±1s
No. of solders		2 time max.

---

### Reference for Hand Soldering

Tip temperature	350°C 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.

## Inquiries about Products

**Inquiry**

