

12mm Size Insulated Shaft Type EC12 Series

Detail

With Switch Type

Part number		EC12D1564404	
rait number		E012D1304404	
Actuator length		17.5mm	
Rotational torque		Standard	
Number of detent		30	
Number of pulse		15	
Operating direction		Vertical	
Operating force of switch		6N	
Travel of push-on switch		0.5mm	
Minimum order unit (pcs.)		2,560	
Operating temperature range		-40°C to +85°C	
Maximum operating current (Resistive load)		10mA	
	Ratings	0.5mA 5V DC	
Electrical performance	Output signal	Output of A and B signals, proportionate to phase difference	
	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	
Resistance to soldering heat	Manual soldering	350°C max. 3s max.	
	Dip soldering	260±5°C, 3±1s	
Durability	Operating life	30,000 cycles	
Environmental performance	Cold	-40±3°C for 10h	
	Dry heat	85±3°C for 10h	
	Damp heat	60±2°C, 90 to 95%RH for 10h	
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	1mA 5V DC	
	Contact resistance (Initial performance/After lifetime)	100m Ω max./200m Ω max.	

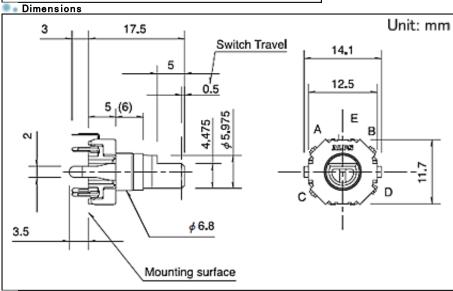
3D CAD (STEP)	
Certificate of Compliance to RoHS regulations	

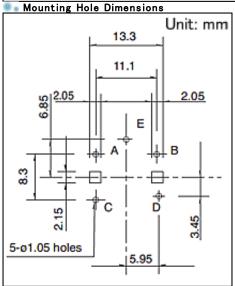
30,000 times min.

Operating life

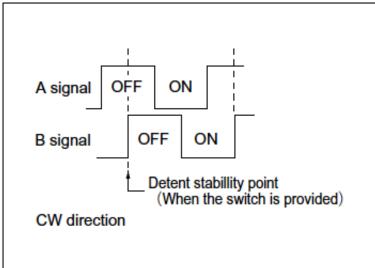
Photo



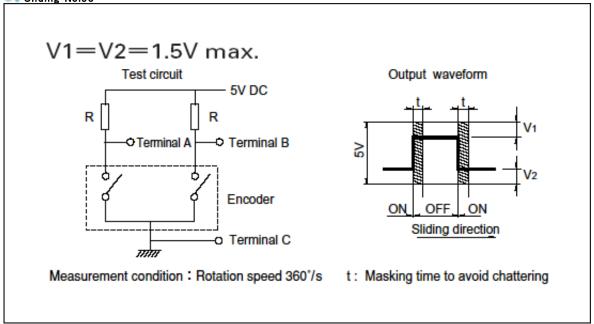




Viewed from mounting face.
Output Wave



Sliding Noise



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

Packing Specifications

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

» 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.