



9mm Size Metal Shaft Type EC09E Series

| | | |
|-------------------------------|---|--|
| Part number | EC09E1524404 | |
| Actuator configuration | Flat | |
| Actuator length | 20mm | |
| Number of detent | 30 | |
| Number of pulse | 15 | |
| Operating direction | Vertical | |
| Push-on switch | With | |
| Travel of push-on switch | 1.5mm | |
| Operating temperature range | -40°C to +85°C | |
| Electrical performance | Ratings | 10mA 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 | 8±5mN·m |
| | Push-pull strength | 100N |
| Durability | Operating life | 15,000 cycles |
| Push-on switch specifications | Contact arrangement | Single pole single throw (Push-on) |
| | Travel | 1.5±0.5mm |
| | Operating force | 4±2N |
| | Rating | 10mA 5V DC (1mA 5V DC min. ratings) |
| | Contact resistance | 100mΩ max./200mΩ max. |

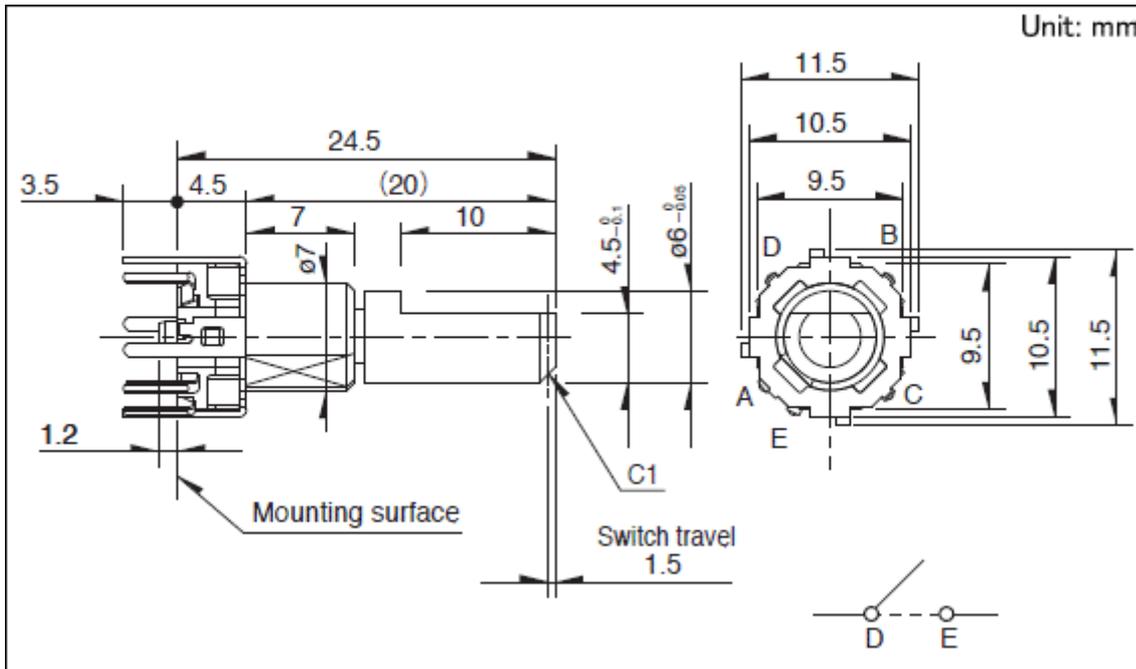
(Initial performance/After lifetime)

| | | |
|---------------------------|----------------|--------------|
| | Operating life | 10,000 times |
| Minimum order unit (pcs.) | Japan | 700 |
| | Export | 1,400 |

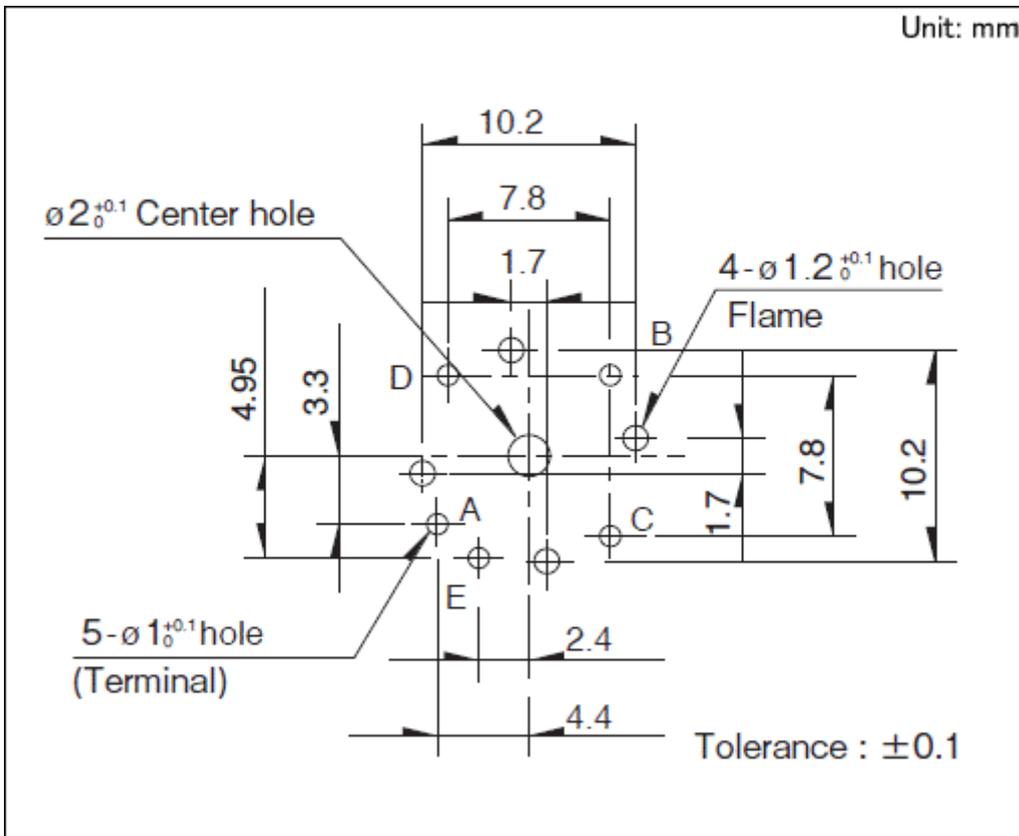
Photo



Dimensions

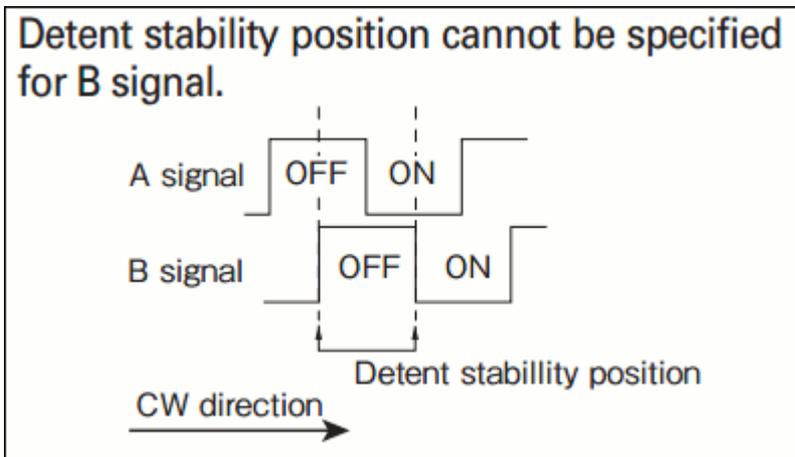


Mounting Hole Dimensions

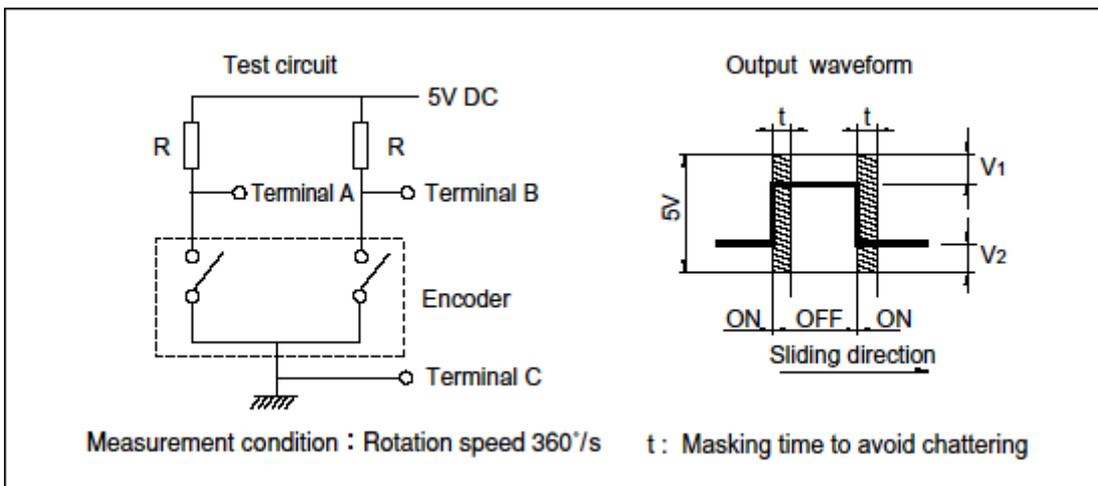


Viewed from mounting face.

Output Wave



Sliding Noise



V1=V2=2.5V max.

At R=5kΩ Chattering: 5ms max. Bounce: 2ms max.

Packing Specifications

Tray

| | | |
|---------------------------|-------------------------|-------|
| Number of packages (pcs.) | 1 case / Japan | 700 |
| | 1 case / export packing | 1,400 |

| | |
|----------------------------------|-------------|
| Export package measurements (mm) | 374×529×213 |
|----------------------------------|-------------|

Soldering Conditions

Reference for Dip Soldering

| | | |
|----------------|------------------------------|-------------|
| Preheating | Soldering surfacetemperature | 100°C max. |
| | Heating time | 2 min. max. |
| Dip soldering | Soldering temperature | 260±5°C |
| | Soldering time | 5±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. 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.