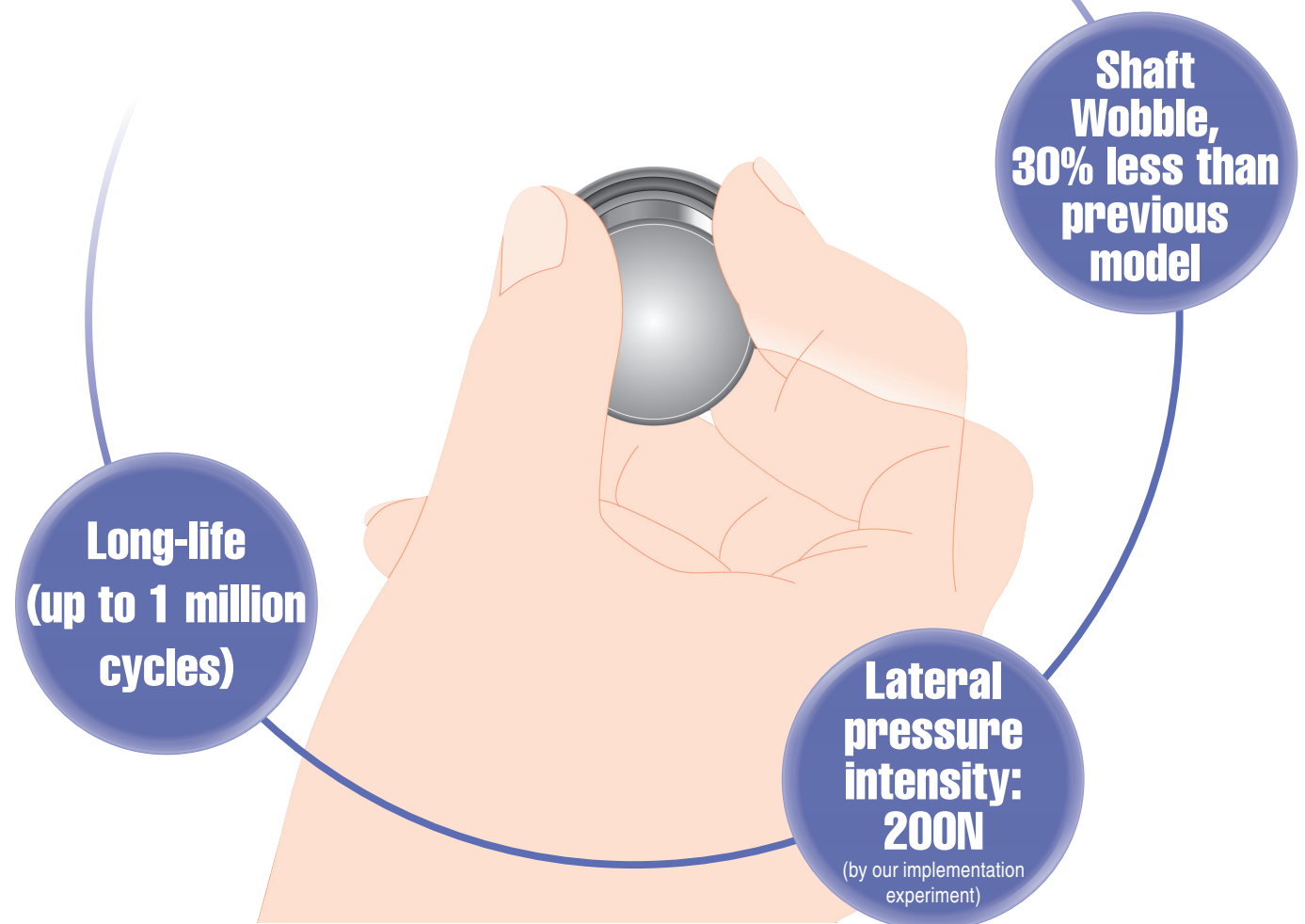


11mm Size Metal Shaft Encoder (Surface Mount Type)

EC11J Series

New
2007

Applicable to multifunction dials.



Conceived through pursuit of best form, precise metal molding, adoption of a highly reliable multi-contact point structure, long-life encoder with minimal shaft wobble that boasts comfortable operation.

- Product height, 4.5mm, applicable to models with 0.5/1.5mm travel push switch.
- Small, highly accurate sliding encoder.
- Wide selection.



With switch
0.5mm-travel



With switch
1.5mm-travel



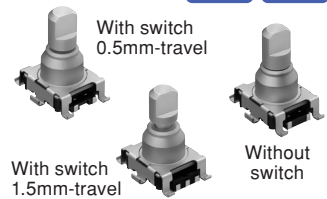
Without switch



Alps offers an environmentally-friendly and long-life encoder.

11mm Size Metal Shaft Encoder (Surface Mount Type)

EC11J Series



Conceived through pursuit of best form, precise metal molding, adoption of a highly reliable multi-contact point structure, long-life encoder with minimal shaft wobble that boasts comfortable operation.

Applications

Various control function for car audio, car navigation such as menu selection and volume adjustment

Major Specifications

Item	Specifications
Operating temperature range	-40°C to +85°C
Maximum operating current (electric resistance)	10mA
Rating	10mA 5V DC
Output signal	Output of phase difference between signals A & B
Detent torque	12mN·m (Before reflow) /10mN·m (After reflow)
Push-pull strength	100N
Rotation life	100,000、500,000、1,000,000cycles
Bushing length	5、7、10mm

Push-on switch part

Item	Specifications
Switch circuit/number of contacts	Single-pole single-throw (Push-on)
Travel of switch	0.5±0.3mm/1.5±0.3mm
Operating force of switch	5±2N
Rating	1mA 5V DC
Contact resistance	100mΩ max. (initial)
Operating life	500,000/1,000,000 times min.
Shaft wobble	Less than 0.2mmp-p (bushing length 10mm type)

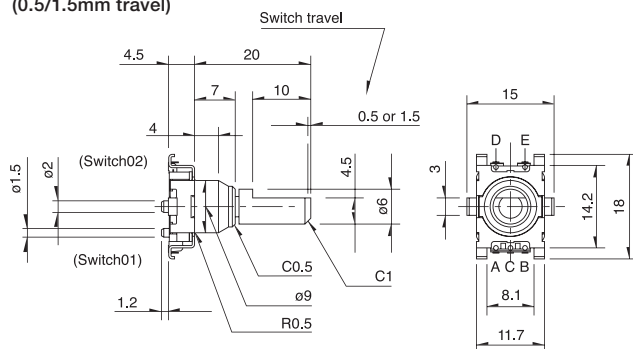
All product list

Products number	Number of detent/pulse	Push-on switch	Travel of push-on switch	Rotation life
EC11J0920401	18/9	without	—	100,000 cycles
EC11J0924401		with	0.5mm	
EC11J0925401		with	1.5mm	
EC11J0920601		without	—	500,000 cycles
EC11J0924601		with	0.5mm	
EC11J0925601		with	1.5mm	
EC11J0920801	without	—	1,000,000 cycles	
EC11J0924801	with	0.5mm		
EC11J0925801	with	1.5mm		

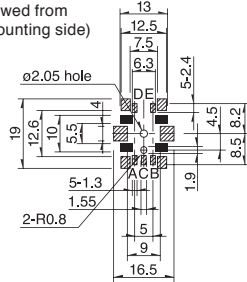
Products number	Number of detent/pulse	Push-on switch	Travel of push-on switch	Rotation life
EC11J1520401	30/15	without	—	100,000 cycles
EC11J1524401		with	0.5mm	
EC11J1525401		with	1.5mm	
EC11J1520601		without	—	500,000 cycles
EC11J1524601		with	0.5mm	
EC11J1525601		with	1.5mm	
EC11J1520801	without	—	1,000,000 cycles	
EC11J1524801	with	0.5mm		
EC11J1525801	with	1.5mm		

Dimensions

With push-on switch
(0.5/1.5mm travel)

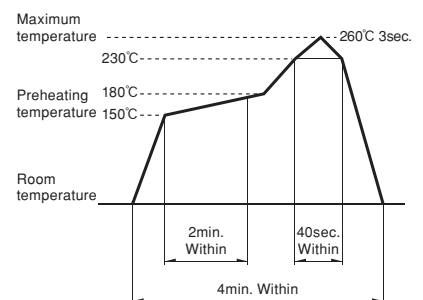


Measurements of holes to mount PC board
(viewed from mounting side)



PC board mounting detail
A slant line part houses the solder land
Black part: Do not solder and wiring for electrical contact

Temperature profile



Cautions for Use

- Specifications are intended for outline purpose only. When using the product, use of an officially authorized specification for supply contract is recommended.
- Unless specifically indicated otherwise, products in this catalog have been designed and manufactured for use in ordinary electronic equipment and devices, such as AV equipment, electronic home appliances, office machines, and communications equipment. Equipment manufacturers are consequently advised that when these products are planned for use in equipment that requires a high degree of safety and reliability, especially those apparatuses like medical equipment, aviation and aircraft equipment, aerospace equipment, and burglar alarm equipment, the manufacturers should assure equipment safety by providing protection circuits and redundant circuitry and should fully study the suitability of such products for the intended equipment.
- The external appearance, performances, and other properties of the product are subject to change for improvement without prior notice. The product introduced in this catalog may be discontinued without prior notice.
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- This catalog is valid till the end of December 2007.

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