11 mm Square GS Encoders

Type: EVER/EVEU/EVEV/EVEY

■ Features

• Low Profile : Reflow Type 3.5 mm,

Wave Soldering Type 4 mm

- Minimized shaft wobble type is also available
- The reflow type allows the product to be automatically mounted and reflow-soldered



■ Recommended Applications

Car audio, car navigation, car air conditioners

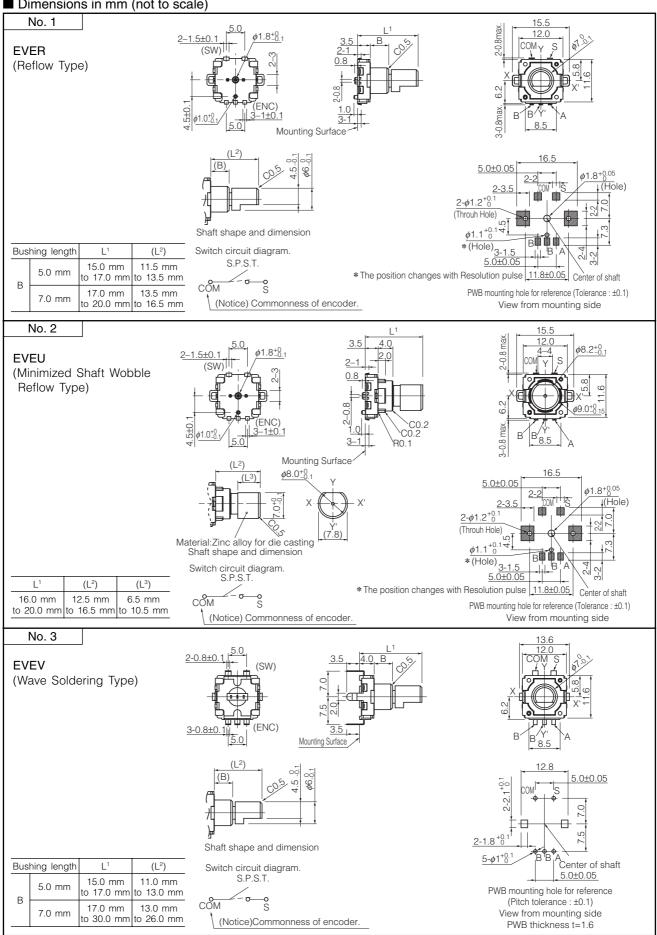
■ Explanation of Part Numbers

1 2 3 E V E	4	5	6	7	8	9	10	11	12
Product Code	$\overline{\top}$	Specific	cations	Shaft T	rims & Dime	ensions	Ou	ıtput(Puls	es)
	4 th	Туре							
	R	Reflow Type							
	U	Minimized Shaft Wobble Reflow Type							
	V	Wave Soldering Type							
	Υ	Minimized Shaft Wobble Wave Soldering Type							

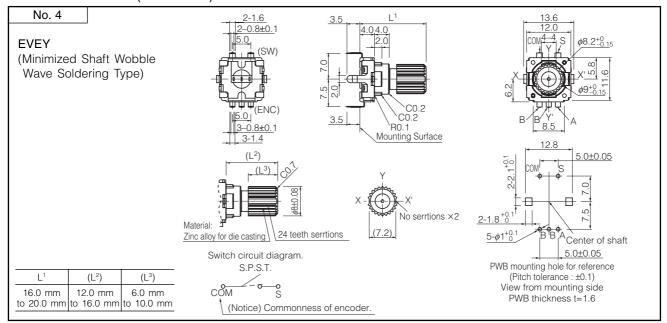
■ Specifications

Detetion		(Reflow Type)	EVEV (Wave Soldering Type)	EVEU (Minimized Shaft Wobble Reflow Type)	EVEY (Minimized Shaft Wobble Wave Soldering Type)				
Rotation Angle		360 ° (Endless)							
Shaft Pu	ıll/Push Strength	100 N min.							
Mechanical Shaft We	obble	0.6×L/30 ((mm) max.	0.35×L/30 (mm) max.					
Rotation	Torque	3 mN·m to 20 mN·m							
Detents		16 points, 24 points, 30 points, 32 points							
Shaft Le	ength Range	Li=15 to 20 mm Li=15 to 30 mm Li=16 to 20		20 mm					
Output Signals		Phase A and B							
Resolution	on	8, 12, 15, 16 pulses/360 °							
Rating		1 mA 10 Vdc (at each bit)							
Electrical Contact	Resistance	1 Ω max.							
Chatterin	ng	3 ms max.							
Insulatio	n Resistance	50 M Ω min. (at 250 Vdc)							
Dielectric	Withstanding Voltage	300 Vac for 1 minute							
Bouncin	g	5 ms max.							
Туре		SPST Push-on							
Rating		20 mA 16 Vdc							
Switch Part Contact	Resistance	100 m Ω max.							
	ng Force	0.4 mm travel type: 3 N, 4 N, 6 N							
Ореган		1.5 mm travel type : 2.5 N, 4 N , 5 N							
Travel	Travel		0.4 mm, 1.5 mm						
Endurance Rotation	Life (Encoder)	30000 cycles min.							
Operating Life (Switch)		30000 cycles min.							
Minimum Quantity/Packing Unit		50 pcs. (Tray Pack)	100 pcs. (Tray Pack)	50 pcs. (Tray Pack)	100 pcs. (Tray Pack)				
Quantity/Carton		250 pcs. or 300 pcs.	500 pcs.	250 pcs. or 300 pcs.	500 pcs.				

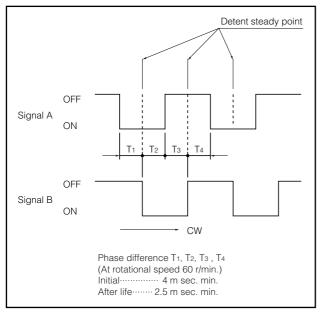
■ Dimensions in mm (not to scale)



■ Dimensions in mm (not to scale)



■ Phase Difference



■ Test Circuit Diagram

