

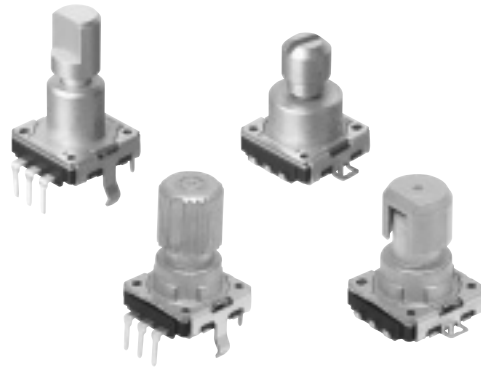
11 mm Square GS Encoders

Japan

Type: **EVER/EVEU/EVEV/EVEY**

■ Features

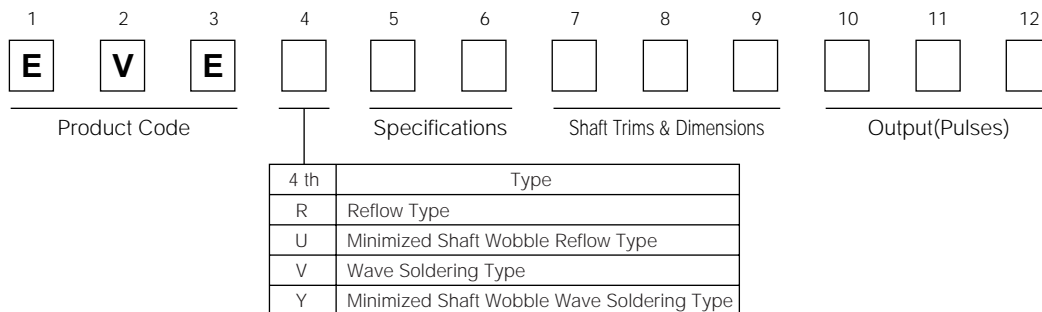
- Low Profile : Reflow Type 3.5 mm,
Wave Soldering Type 4 mm
- Minimized shaft wobble type is also available
- The reflow type allows the product to be automatically mounted and reflow-soldered



■ Recommended Applications

- Car audio, car navigation, car air conditioners

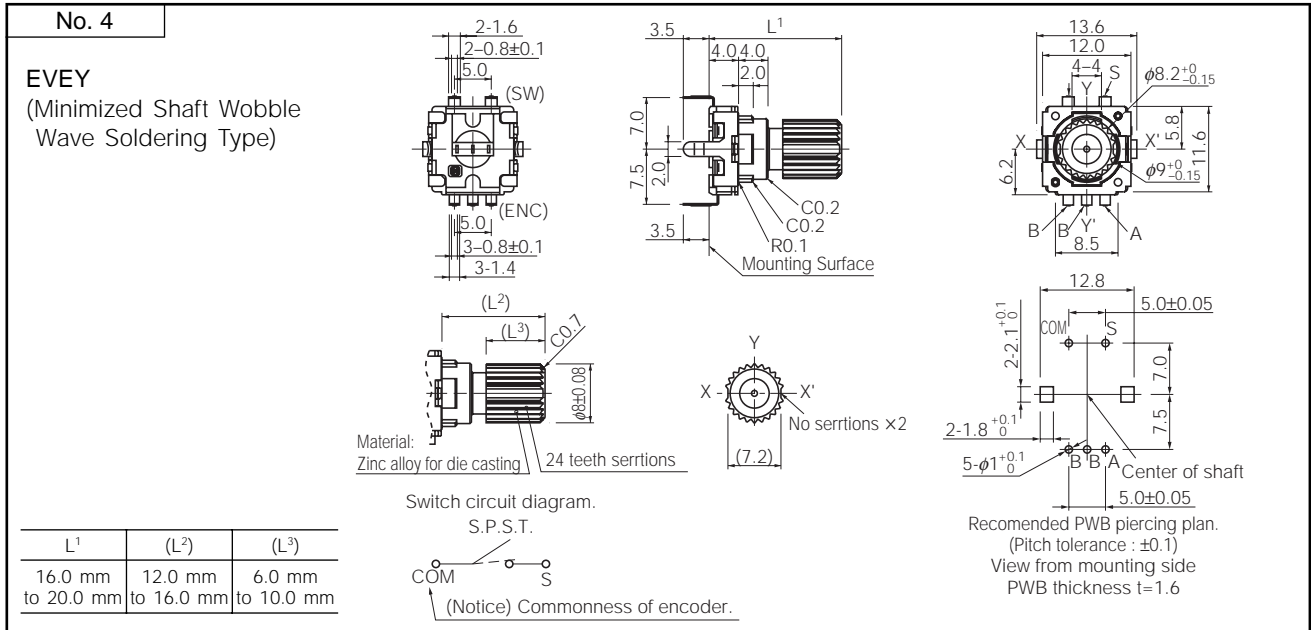
■ Explanation of Part Numbers



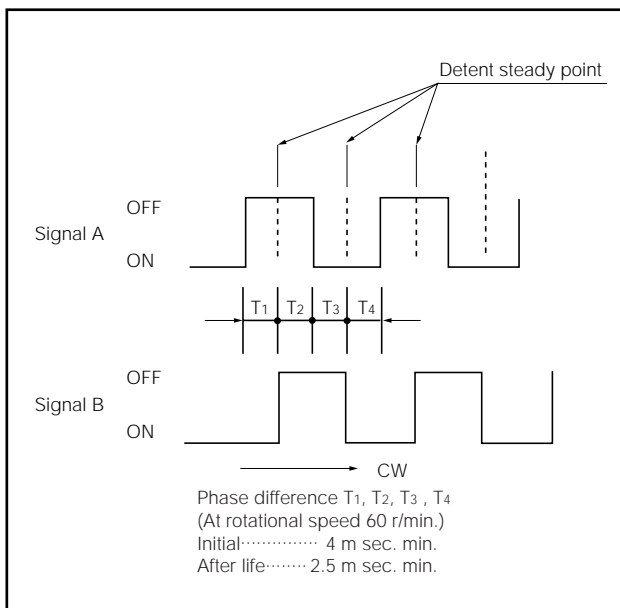
■ Specifications

		EVER (Reflow Type)	EVEV (Wave Soldering Type)	EVEU, EVEY (Minimized Shaft Wobble Type)
Mechanical	Rotation Angle	360 ° (Endless)		
	Shaft Pull/Push Strength	100 N min.		
	Shaft Wobble	0.6×L/30 (mm) max.		0.35×L/30 (mm) max.
	Rotation Torque	3 mN·m to 20 mN·m		
	Detents	16 points, 32 points		
	Shaft Length Range	L ₁ =15 to 20 mm	L ₁ =15 to 30 mm	L ₁ =16 to 20 mm
Electrical	Output Signals	Phase A and B		
	Resolution	8, 16 pulses/360 °		
	Rating	1 mA 10 Vdc (at each bit)		
	Contact Resistance	1 Ω max.		
	Chattering	3 ms max.		
	Insulation Resistance	50 MΩ min. (at 250 Vdc)		
	Dielectric Withstanding Voltage	300 Vac for 1 minute		
Switch Part	Bouncing	5 ms max.		
	Type	SPST Push-on		
	Rating	20 mA 16 Vdc		
	Contact Resistance	100 mΩ max.		
	Operating Force	0.4 mm travel type : 3 N, 4 N , 6 N 1.5 mm travel type : 4 N		
Endurance	Travel	0.4 mm, 1.5 mm		
	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)
Quantity/Carton		250 pcs. or 300 pcs.	500 pcs.	250 pcs. or 300 pcs.

■ Dimensions in mm (not to scale)



■ Phase Difference



■ Test Circuit Diagram

