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

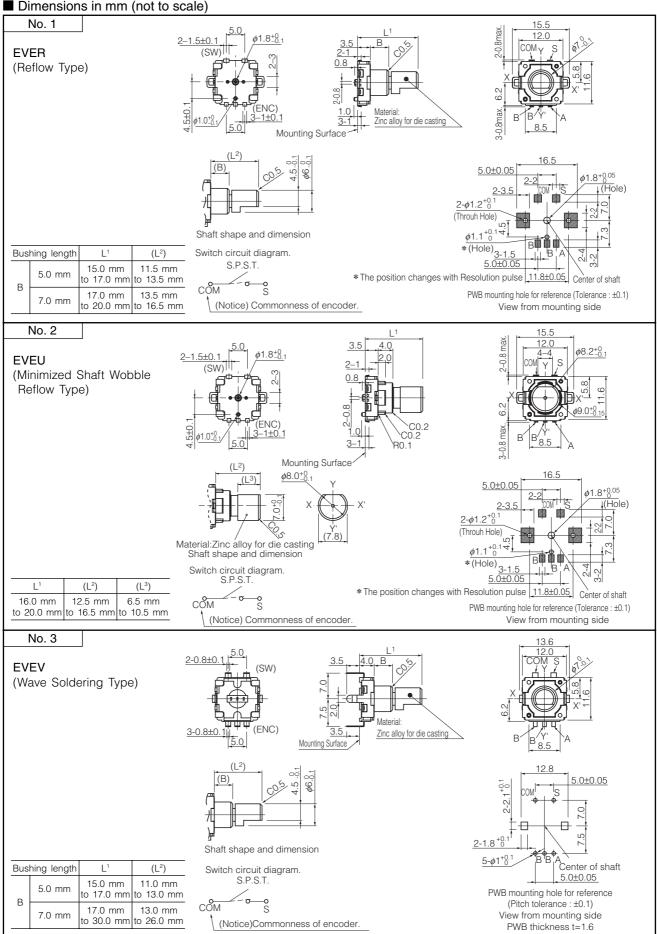
■ Explanation of Part Numbers

1 2 3 E V E	4	5 6	7	8	9	10	11	12
Product Code		Specificatio	ns Shaft	Trims & Dime	ensions	Οι	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						

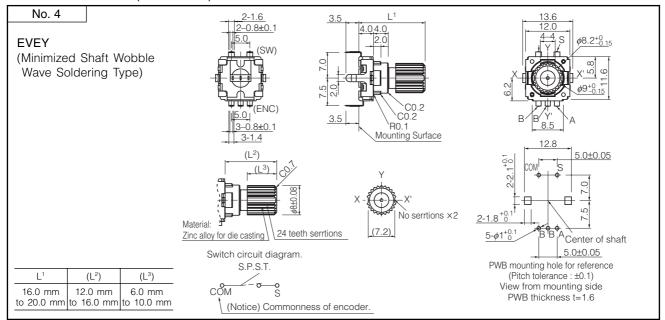
■ Specifications

-		E) (ED	EVEV	EVEU	EVEY			
		EVER (Reflow Type)	(Wave Soldering Type)	(Minimized Shaft Wobble Reflow Type)	(Minimized Shaft Wobble Wave Soldering 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, 24 points, 30 points, 32 points						
	Shaft Length Range	L ₁ =15 to 20 mm	L ₁ =15 to 30 mm	L1=16 to	20 mm			
Electrical	Output Signals	Phase A and B						
	Resolution	8, 12, 15, 16 pulses/360 °						
	Rating	1 mA 10 Vdc (at each bit)						
	Contact Resistance	1 Ω max.						
	Chattering	3 ms max.						
	Insulation Resistance	50 M Ω min. (at 250 Vdc)						
	Dielectric Withstanding Voltage	300 Vac for 1 minute						
	Bouncing	5 ms max.						
Switch Part	Туре	SPST Push-on						
	Rating	20 mA 16 Vdc						
	Contact Resistance	100 m Ω max.						
	Operating Force	0.4 mm travel type: 3 N, 4 N, 6 N						
	Operating Force	1.5 mm travel type : 4 N						
	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.			
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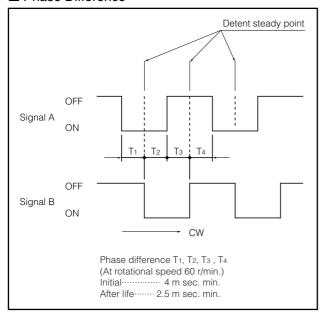




■ Dimensions in mm (not to scale)



■ Phase Difference



■ Test Circuit Diagram

