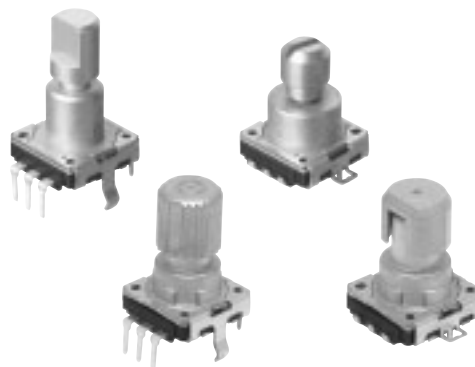


11 mm Square GS Encoders

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	4	5	6	7	8	9	10	11	12	
E	V	E										
Product Code				Specifications			Shaft Trims & Dimensions			Output(Pulses)		
				Type								
				Reflow Type								
				Minimized Shaft Wobble Reflow Type								
				Wave Soldering Type								
				Minimized Shaft Wobble Wave Soldering Type								

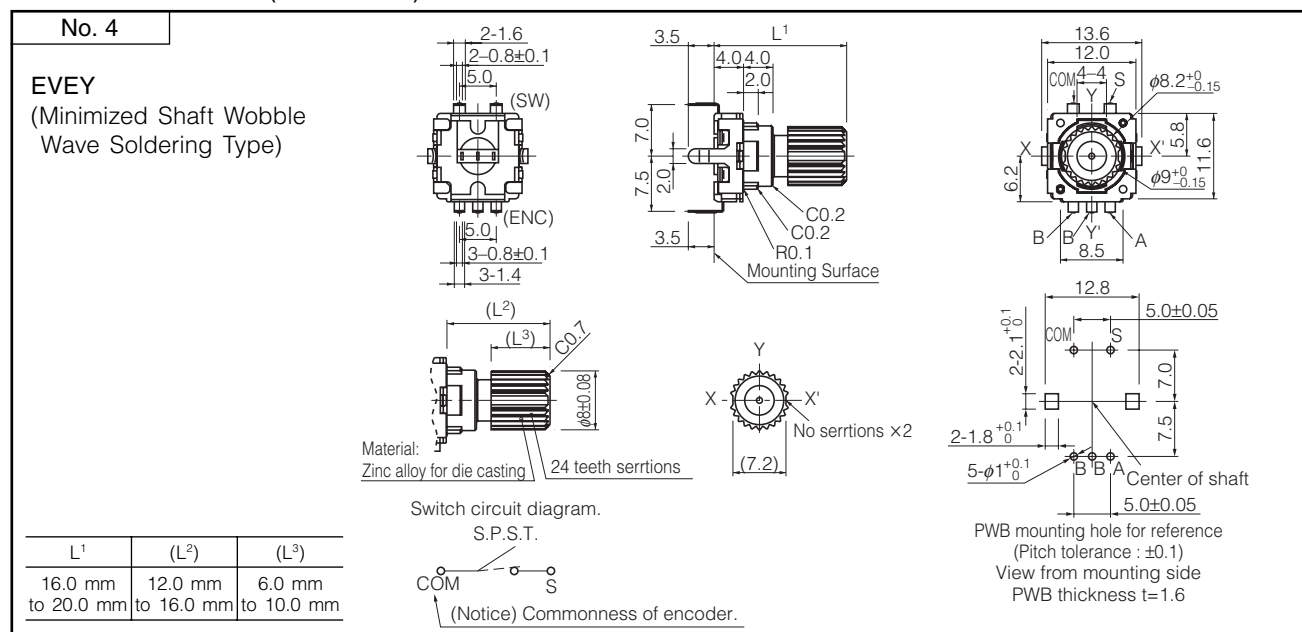
■ Specifications

		EVER (Reflow Type)	EVEV (Wave Soldering Type)	EVEU (Minimized Shaft Wobble Reflow Type)	EVEY (Minimized Shaft Wobble Wave Soldering Type)
Mechanical	Rotation Angle	360 ° (Endless)			
	Shaft Pull/Push Strength	100 N min.			
	Shaft Wobble	0.6xL/30 (mm) max.		0.35xL/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	L ₁ =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 MΩ min. (at 250 Vdc)			
	Dielectric Withstanding Voltage	300 Vac for 1 minute			
	Bouncing	5 ms max.			
Switch Part	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 : 2.5 N, 4 N , 5 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.

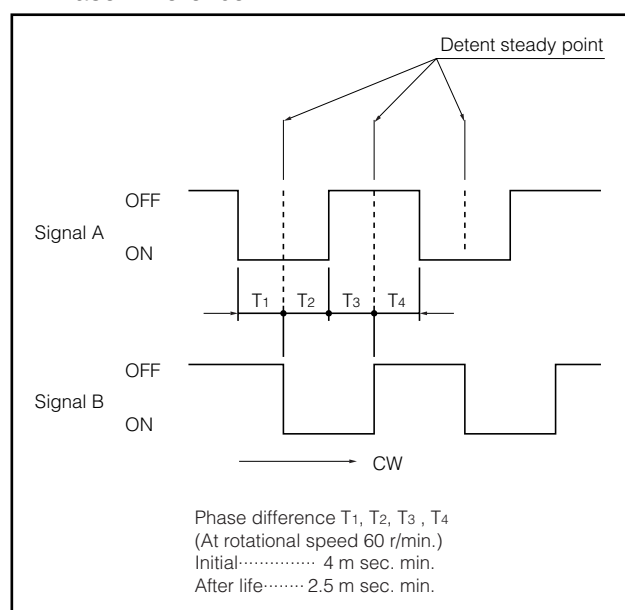
■ Dimensions in mm (not to scale)

No. 1			
EVER (Reflow Type)			
Bushing length L ¹ (L ²)			
B	5.0 mm	15.0 mm to 17.0 mm	11.5 mm to 13.5 mm
	7.0 mm	17.0 mm to 20.0 mm	13.5 mm to 16.5 mm
Switch circuit diagram. S.P.S.T. COM S (Notice) Commonness of encoder.			
No. 2			
EVEU (Minimized Shaft Wobble Reflow Type)			
Material: Zinc alloy for die casting Shaft shape and dimension			
Switch circuit diagram. S.P.S.T. COM S (Notice) Commonness of encoder.			
L ¹ (L ²) (L ³)			
16.0 mm to 20.0 mm 12.5 mm to 16.5 mm 6.5 mm to 10.5 mm			
No. 3			
EVEV (Wave Soldering Type)			
Shaft shape and dimension			
Switch circuit diagram. S.P.S.T. COM S (Notice) Commonness of encoder.			
Bushing length L ¹ (L ²)			
B	5.0 mm	15.0 mm to 17.0 mm	11.0 mm to 13.0 mm
	7.0 mm	17.0 mm to 30.0 mm	13.0 mm to 26.0 mm

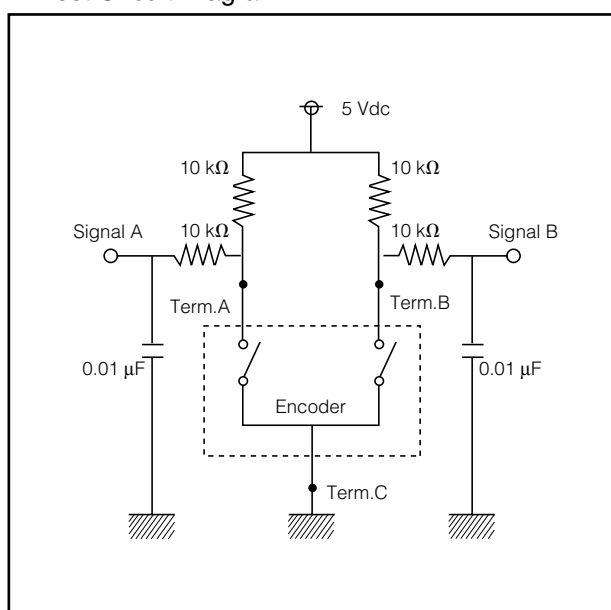
■ Dimensions in mm (not to scale)



■ Phase Difference



■ Test Circuit Diagram



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