

12 mm Square GS Encoders

Malaysia

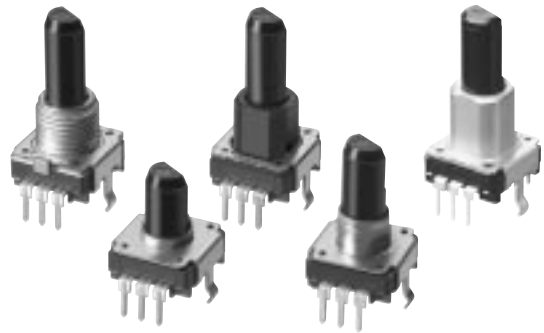
Type: **EVEG/EVEH/EVEJ/EVEK/EVEL**

■ Features

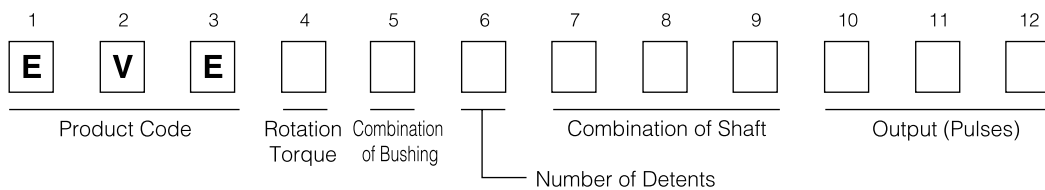
- Lineup of High rotation-torque-type (50 mN·m)
- A wide range of standard products

■ Recommended Applications

- Volume and Tone Control for Audio Visual Equipment.
- Tuner for Communication Units
- Mode Selection for Measurement



■ Explanation of Part Numbers



■ Product Chart

Torque type	Combination of Bushing	Thickness	Height						Detents (Resolution/Pulses)		
			15.0 mm	17.5 mm	20.0 mm	22.5 mm	25.0 mm	30.0 mm	12 points (12 pulses)	24 points (24 pulses)	Without detents (12 pulses, 24 pulses)
Heavy-rotation torque (10 mN·m to 50 mN·m)	Die-cast (7.0, 12.0 mm)	5.5 mm					○	○			○
	Sleeve (7.0, 12.0 mm)	5.5 mm					○	○			○
Standard type (3 mN·m to 20 mN·m)	Barling (5.0 mm)	5.0 mm		○	○	○	○		○	○	○
	Barling (1.6 mm)	5.0 mm	○						○	○	○
	Die-cast (7.0 mm)	5.5 mm			○	○	○		○	○	○
	Sleeve (7.0 mm)	5.5 mm			○	○	○		○	○	○

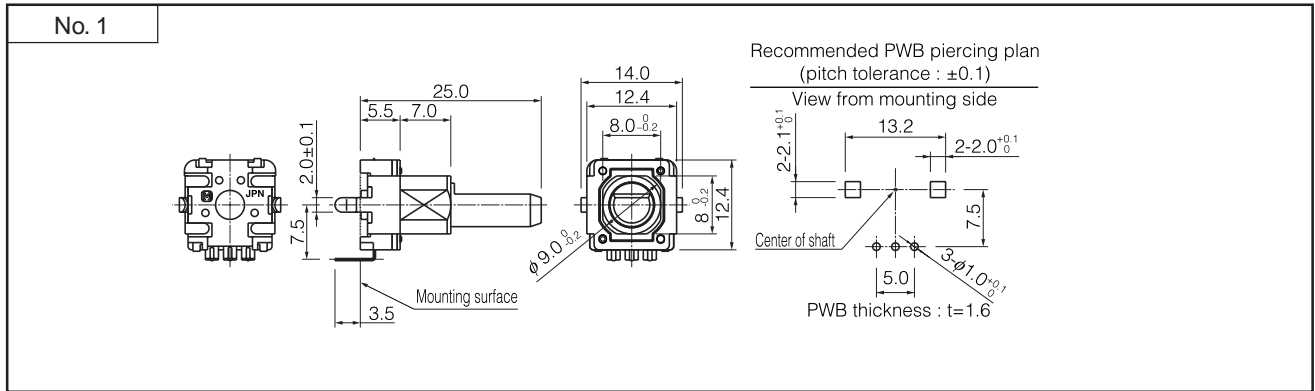
■ Major Specifications

Mechanical	Rotation Angle		360 ° (Endless)			
	Shaft Inclination		0.7×H/30 mm p-p max.			
	Detents		12 points, 20 points, 24 points, without detents (Heavy rotation-torque without detents)			
	Rotation Torque	Standard Type	3 mN·m to 20 mN·m			
		High Rotation Torque	10 mN·m to 50 mN·m			
Electrical	Output Signals		Phase A and B			
	Resolution		12, 20, 24 pulses/360 °			
	Rating		1 mA 5 Vdc, 1 mA 10 Vdc			
	Contact Resistance		1 Ω max.			
	Insulation Resistance		10 MΩ min. (at 50 Vdc)			
	Dielectric Withstanding Voltage		50 Vac for 1 minute			
Switch Part	Bouncing		5 ms max.			
	Type		SPST Push-on			
	Rating		1 mA 10 Vdc			
	Contact Resistance		100 mΩ max.			
	Operating Force		4 N			
Endurance	Travel		0.4 mm			
	Operating Life	Standard Type	30000 cycles min.			
		High Rotation Torque	15000 cycles min.			
	Operating Temperature		-10 °C to +60 °C			
Storage Temperature		-40 °C to +85 °C				
Minimum Quantity/Packing Unit			L≤25.0 mm	100 pcs. (Vinyl Bag)	L>26.0 mm	200 pcs. (Vinyl Bag)
Quantity/Carton			L≤25.0 mm	1000 pcs.	L>26.0 mm	2000 pcs.

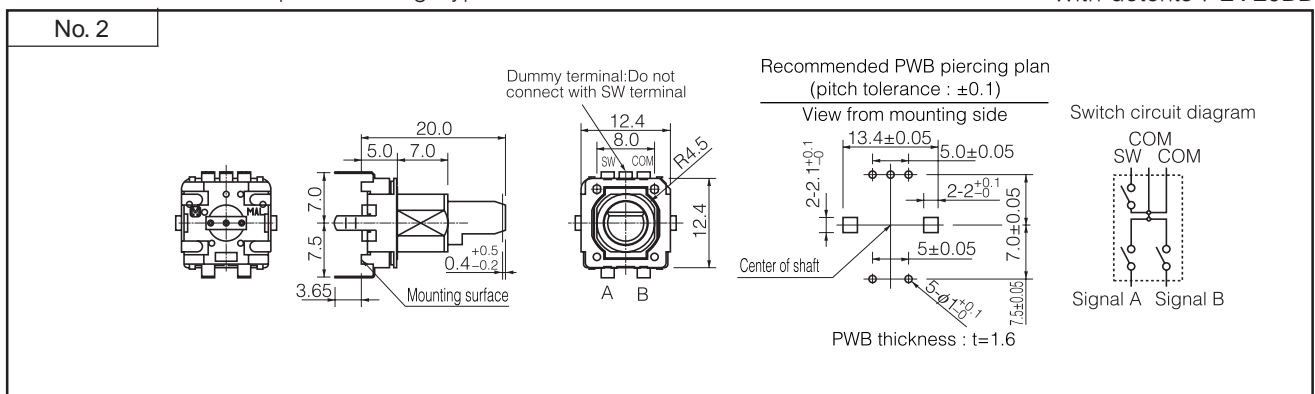
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Dimensions in mm (not to scale)

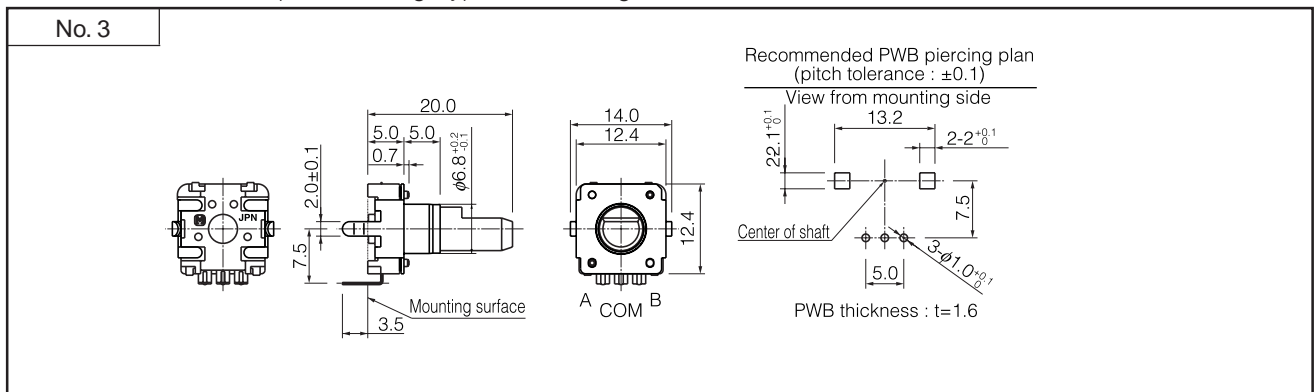
- High rotation-torque / Bushing Type with SleeveWithout detents : EVEKE2



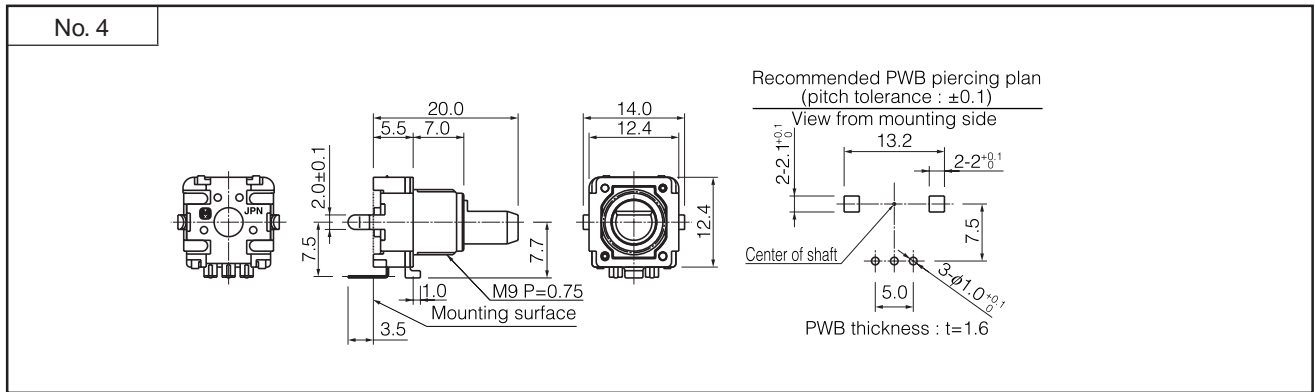
- Standard rotation-torque / Bushing Type with Sleeve / with Switches With detents : EVEJBB



- Standard rotation-torque / Bushing Type with BarlingWithout detents : EVEGA2
- With detents : EVEGA1

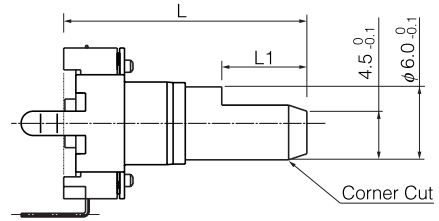


- Standard rotation-torque / Bushing Type with Die-cast Without detents : EVEGC2
- With detents : EVEGC1



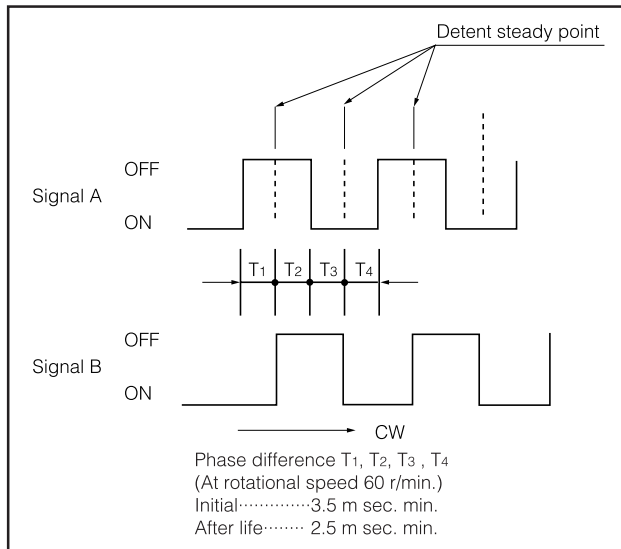
● Shaft Trims and Dimensions in mm

Bushing Type	Dimensions in mm		
	L	L1	Corner Cut
Barling	15.0mm	7.0 mm	1.5 mm
	17.5mm	5.0 mm	1.5 mm
	20.0mm	7.0 mm	1.5 mm
	22.5mm	7.0 mm	1.5 mm
	25.0mm	12.0 mm	1.5 mm
Sleeve	20.0mm	7.0 mm	1.5 mm
	22.5mm	7.0 mm	1.5 mm
	25.0mm	12.0 mm	1.5 mm
	*30.0mm	*12.0 mm	*1.5 mm
Die-cast	20.0mm	7.0 mm	1.5 mm
	22.5mm	7.0 mm	1.5 mm
	25.0mm	12.0 mm	1.5 mm
	*30.0mm	*12.0 mm	*1.5 mm



*High-rotation torque

● Phase Difference



● Test Circuit Diagram

