Panasonic

12 mm Square GS Encoders

Type: EVEG/EVEH/EVEK/EVEL

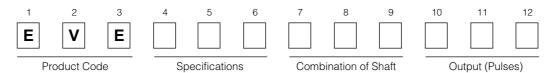
Features

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

Recommended Applications

- Volume for audio/visual equipment
- Tuner for communication units
- Mode selection for measurement instruments

Explanation of Part Numbers



Product Chart

	Combination of Bushing			Height						Detents (Resolution/Pulses)		
Torque type			Thickness	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		(7.0,12.0 mm)	5.5 mm					0	0			0
torque (10 mN·m to 50 mN·m)	Sleeve	(7.0,12.0 mm)	5.5 mm					0	0			0
	Barling	(5.0 mm)	5.0 mm		0	0	0	0		0	0	0
Standard type	Barling	(1.6 mm)	5.0 mm	0						0	0	0
(3 mN·m to 20 mN·m)	Die-cast	(7.0 mm)	5.5 mm			0	0	0		0	0	0
	Sleeve	(7.0 mm)	5.5 mm			0	0	0		0	0	0

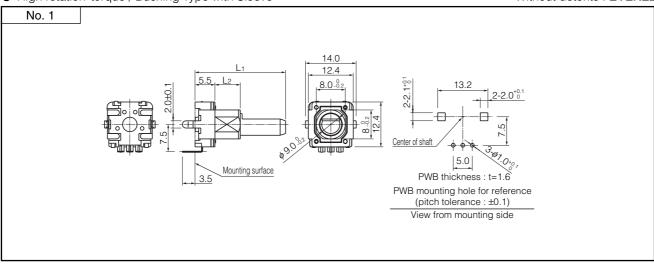
Specifications

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	Rotation Angle		360 ° (Endless)						
Mechanical	Shaft Pull/Push S	Strength	80 N min.						
	Shaft Wobble		0.7xL/30 mm max.						
	Detetion Torque	Standard Type	3 mN·m to 20 mN·m						
	Rotation Torque	Heavy Rotation Torque	10 mN·m to 50 mN·m						
	Detents		12 points, 20 points, 24 points, without detents (Heavy rotation-torque without detents)						
	Output Signals		Phase A and B						
Electrical	Resolution		12, 20, 24 pulses/360 °						
	Rating		1 mA 5 Vdc, 1 mA 10 Vdc						
	Contact Resistar	nce	1 Ω max.						
	Chattering		2 ms max.						
	Insulation Resista	ance	10 M Ω min. (at 50 Vdc)						
	Dielectric Withsta	anding Voltage	50 Vac for 1 minute						
Bouncing			5 ms max.						
Endurance	Operating Life	Standard Type	30000 cycles min.						
		Heavy Rotation Torque		15000 cycles min.					
	Operating Tempe	erature	–10 °C to +60 °C						
	Storage Tempera	ature	-40 °C to +85 °C						
Minimum Quantity/Packing Unit			L≦25.0 mm	100 pcs. Polyethylene Bag(Bulk)	L>26.0 mm	200 pcs. Polyethylene Bag(Bulk)			
Quantity/Carton			L≦25.0 mm	1000 pcs.	L>26.0 mm	2000 pcs.			

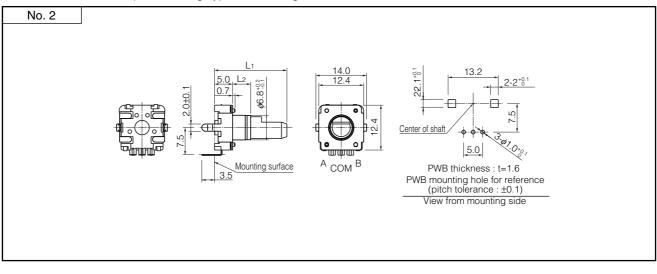
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

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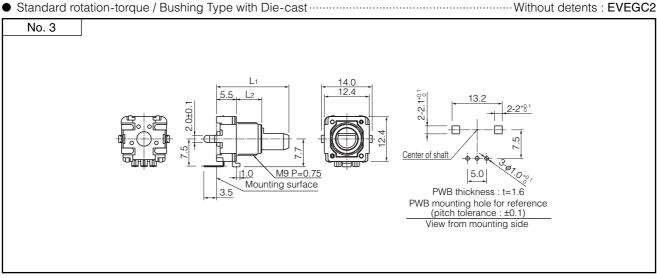
Dimensions in mm (not to scale)



With detents : EVEGA1



With detents : EVEGC1



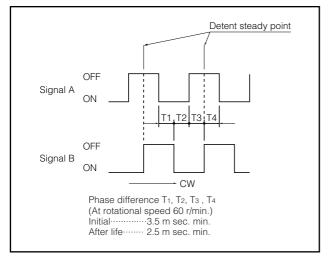
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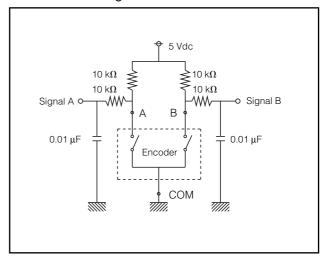
■ Shaft Trims and Dimensions in mm

Duching Tune		Dimer	nsions		
Bushing Type	Lı	L2	L3	Corner Cut	
Barling	15.0 mm	1.6 mm	7.0 mm	1.5 mm	
	17.5 mm	5.0 mm	5.0 mm	1.5 mm	
	20.0 mm	5.0 mm	7.0 mm	1.5 mm	
	22.5 mm	5.0 mm	7.0 mm	1.5 mm	
	25.0 mm	5.0 mm	12.0 mm	1.5 mm	
Sleeve	20.0 mm	7.0 mm	7.0 mm	1.5 mm	
	22.5 mm	7.0 mm	7.0 mm	1.5 mm	▏ <mark>╎╵</mark> <mark>╎╵</mark>
	25.0 mm	7.0 mm	12.0 mm	1.5 mm	
	* 30.0 mm	7.0 mm	* 12.0 mm	* 1.5 mm	
Die-cast	20.0 mm	7.0 mm	7.0 mm	1.5 mm	
	22.5 mm	7.0 mm	7.0 mm	1.5 mm]
	25.0 mm	7.0 mm	12.0 mm	1.5 mm	
	* 30.0 mm	12.0 mm	* 12.0 mm	* 1.5 mm	*High-rotation torque

Phase Difference



Test Circuit Diagram



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