Panasonic Encoders/EVEP/Q

16 mm Square Encoders

Type: **EVEP/EVEQ**



- Features
- Good operational feel
- Long life due to high click torque
- Shaft wobble : 0.1 mm max.

- Recommended Applications
- Centralized control of automotive audio equipment, navigation systems, and air conditioners.

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	V	E	$P_{\mathbf{Q}}$								
	Product Code			Function	Combination of Shaft & Bushing			Output (Pulses)			
						- Switch C	lassificati	on			

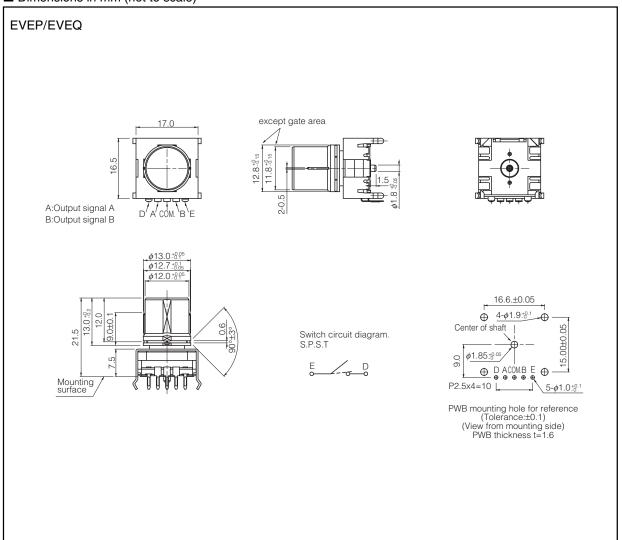
■ Specifications

		EVEP	EVEQ			
	Rotation Angle	360 ° (Endless)				
	Shaft Pull/Push Strength	100 N min.				
Mechanical	Shaft Wobble	0.1 mm max.(Length form mounting surface : 21.5 mm) (50 mN·m is applied on the point 2 mm from the shaft tip)				
	Rotation Torque	25 mN·m max.				
	Detents	16 points	32 points			
	Output Signals	Phase A and B				
	Resolution	8 pulses/ 360 °	16 pulses/ 360 °			
	Rating	1 mA 10 Vdc (at each bit)				
Electrical	Contact Resistance	1 Ω max.				
Electrical	Chattering	5 ms max.				
	Insulation Resistance	50 MΩ min. (at 250 Vdc)				
	Dielectric Withstanding Voltage	300 Vac for 1 minute				
	Bouncing	360 ° (Endless) 100 N min. 0.1 mm max.(Length form mounting (50 mN·m is applied on the point 2 25 mN·m max. 16 points Phase A and E 8 pulses/ 360 ° 1 mA 10 Vdc (at each 1 Ω max.) 5 ms max. 50 MΩ min. (at 250 decended and 10 max.) SPST Push-on 20 mA 16 Vdc 100 mΩ max. 6 N 0.5 mm 1000000 cycles min. 3 1000000 cycles min. 3 360 ° (Endless) 25 mN·m mounting (12 mounting 12	max.			
	Туре	SPST Push-on				
	Rating	20 mA 16 Vdc				
Switch Part	Contact Resistance	100 mΩ max.				
	Operating Force	6 N				
	Travel	0.5 mm				
Endurance	Rotation Life (Encoder)	1000000 cycles min.	30000 cycles min.			
	Operating Life (Switch)	1000000 cycles min.	30000 cycles min.			
Minimum Quanti	ty/Packing Unit	50 pcs. (Tray Pack)				
Quantity/Carton		200 pcs.				

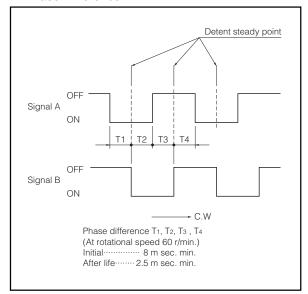
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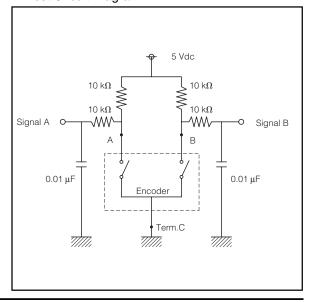
■ Dimensions in mm (not to scale)



■ Phase Difference



■ Test Circuit Diagram



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