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Specifications

3	pecification				
ŀ	tem	Type name	•S=single shaft number •H=hollow shaft	Utput circuit Noentry=Voltage putput C=open collector output €=line driver output	8-16)
			Square wave		Built-in multiplication circuit (×2•×4•×8•×16)
Supply voltage			DC5V ±10%		DC5V ±5%
Current consumption			40mA or less (under no load)		60mA or less (under no load)
Detection system			Incremental		Incremental
	Output pulse number (Standard) (Pulse number/rotation)		60 300 100 360 125(%) 500 200 600 256(%) 900	1,000(%) 1,500(%) 1,024(%) 1,800(%) 2,000(%) 2,048(%)	EX 2,000×2(4,000) 2,000×4(8,000) 2,000×8(16,000) 2,000×16(32,000)
	Output phase		A, B, Z phase		A, B, Z phase
o	Output form		Square wave		Square wave
Output	Output capacity		Sink current:20mA Residual voltage:0.5V or less (at 10mA) Open collector output:Load voltage DC13.2V max		Sink current:20mA max. Residual voltage:0.5V or less (at 10mA) Open collector output:Load voltage DC13.2V max
	Maximum response frequency (response pulse number)		100kHz		Line driver output:50kHz×(by multiplication) Voltage output•Open collector output:100kHz
	Output phase difference		A, B phase difference $90^{\circ} \pm 45^{\circ}(T/4 \pm T/8)$ Z phase T±T/2 (see Output Waveform)		Refer to the figure on the right
	Waveform rise/fall time		2μ s or less (output cable 1m or less)		2μ s or less (output cable 1m or less)
	Allowable load of	Radial	1.9N(200gf)	0.98N(100gf)	0.98N(100gf)
	shaft (electrical)	Thrust	1.9N(200gf)	0.98N(100gf)	0.98N(100gf)
	/laximum allowab (mechanical)	le revolutions	6,0	00r/min	6,000r/min
Working ambient temperature/ humidity		temperature/	−10°C~70°C RH35%~90% no dewing		-10°C~70°C RH35%~90% no dewing
Storing ambient temperature Vibration resistance Impact resistance Cable			-20°C~80°C		-20°C~80°C
			Durability 55Hz, double amplitude 1.5mm 2 hours each in X, Y, and Z directions		Durability 55Hz, double amplitude 1.5mm 2 hours each in X, Y, and Z directions
			Durability 500m/s ² (about 50G) 3 times each in X, Y, and Z directions		Durability 500m/s ² (about 50G) 3 times each in X, Y, and Z directions
			Outside diameter ϕ 3 5-core vinyl wire Insulated shield cable (length 1m)		Outside diameter ¢3 5-core vinyl wire Insulated shield cable (length 1m)
Mass			40g		40g

*Handled by built-in multiplier circuit



Output circuit diagram



Spring flange MEH-12 (Included)





A capacitor (0.1 μ F) is connected between 0V and FG (frame ground). Note: This capacitor is not connected to the voltage or open collector output of the built-in multiplier circuit.

Output waveform (Square wave)



Output waveform / Built-in multiplication circuit (×2·×4·×8·×16)

