

Ultra Miniature Optical Encoder

SR Series

Highlight

- ✓ Canon LED Optical Encoder Technology
- ✓ Highly Miniaturized & High Resolution
- ✓ Rotary or Linear Scale in Film or Glass
- ✓ Simple Installation & Alignment
- ✓ Off-the-Shelf-Use or Customization Available

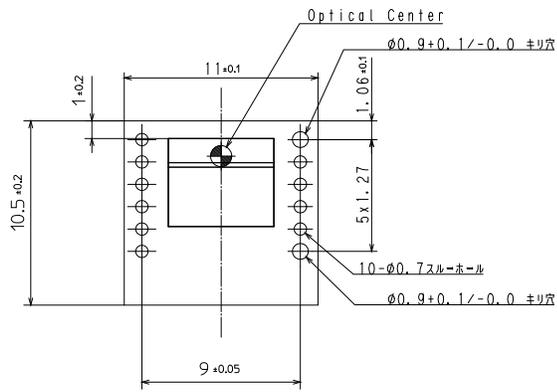
Applications

- ☞ Linear/Rotary Motion & Speed Control
- ☞ XY-Stage & Turntable Equipment
- ☞ Easy Retrofit to Existing System!

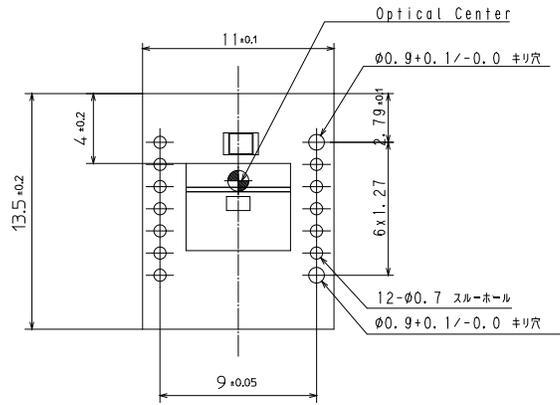


Specification	Rotary	Linear
Light Source	LED (650nm)	
Working Distance	1mm ±0.3mm	
Output Signal	A, B, Z	
Resolution	500ppr ~ 1,000,000ppr 12,560 μ Rad ~ 6.3 μ Rad	80 μ m ~ 0.08 μ m
Scale Material	Glass or Multi-Layer PET Film	
Power Supply	DC +5V ±5%, 250mA max	
Operating Environment	0~60°C / 90%RH max (no condensation)	
Storage Environment	-20~60°C / 90%RH max (no condensation)	

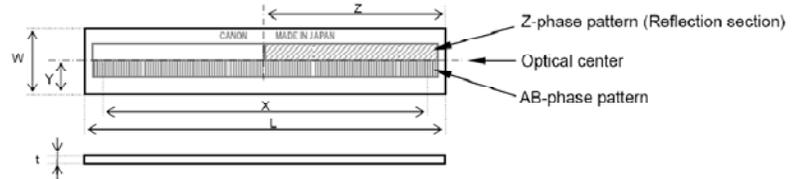
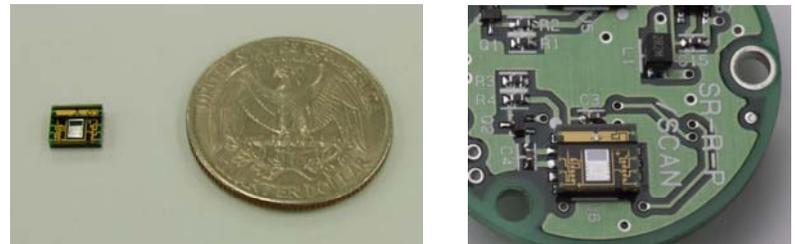
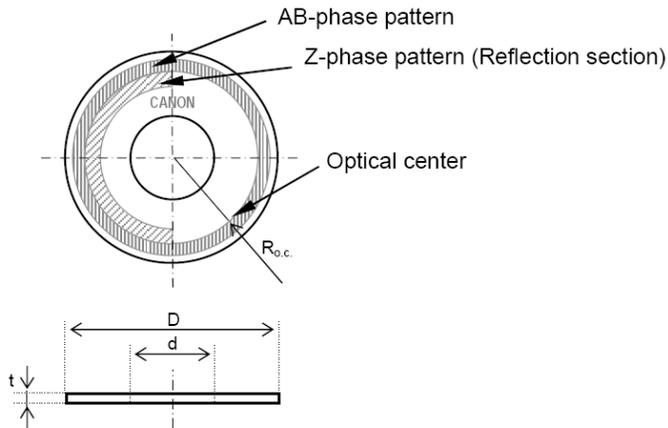
Interpolation Rate	Square Wave	Linear		Rotary		
		Resolution	max.Velocity	Resolution		max. Velocity
	μ m/cycle	μ m	mm/sec	ppr	μ Rad	rpm
100	3.2	0.8	4000	100000	62.8	3000
200	1.6	0.4	4000	200000	31.4	3000
400	0.8	0.2	4000	400000	15.7	3000
800	0.4	0.1	2000	800000	7.9	1500
1000	0.32	0.08	1500	1000000	6.3	1125



SR-P01A Dimensions



SR-P01AZ Dimensions



Rotary Scale P/N	Pulse Count	Material	D	d	Ro.c.	t	Z-phase Position
(mm)							
S-846R500F	500ppr	Film	φ16	φ7.66	R6.1	0.3	Inside
S-846R750F	750ppr		φ22.8		R9.4		
S-846R500G	500ppr	Glass	φ17	φ6.6	R6.1	1.1	
S-846R1000G	1000ppr		φ31		φ12		

Linear Scale P/N	Pitch	Material	L	W	X	Y	Z	t
(mm)								
S-800L30F	80μm	Film	32.5	6.0	30.0	4.0	16.25	0.3
S-800L500F			520.0	8.0	500.0	5.0	260.00	0.3
S-800L50G		Glass	55.0	8.0	50.0	4.0	27.50	1.1
S-800L100G			105.0	8.0	100.0	4.0	52.50	1.1

Rotary & Linear Scale Dimensions

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