

Main Unit Spec

Detector

	SR Encoder Head
Light Source	LED 650 nm
Working Distance	1 mm ± 0.5 mm*1
Output Signal	A phase, B phase, (Z phase : option)

*1 : Depending on the specification of Z phase signal

Linear Scale

	Film scale	Glass scale
Grating Pitch	80 μm	80 μm
Material	Multi Layer PET Film	Glass
Effective Length	15 - 1000 mm	15 - 200 mm

Linear Encoder Resolution (μm) & max. Response speed (m/sec.)

Encoder Head		SR-P40	SR-P64	SR-P1000
Interpolation rate	1000			0.08 μm , 1.5 m/s
	800			0.10 μm , 2.0 m/s
	400			0.26 μm , 4.0 m/s
	200			0.40 μm , 4.0 m/s
	100			0.80 μm , 4.0 m/s
	64		1.25 μm , 4.0 m/s	
	40	2.00 μm , 4.0 m/s		

Rotary Scale

	SR-R500	SR-R1000
Grating Pitch	84.6 μm	84.6 μm
Material	Multi Layer PET Film	Glass
Outer Diameter	16 mm	31 mm
Inner Diameter	-	12 mm
Thickness	0.3 mm	1.1 mm

Rotary Encoder Resolution (pulse/rev.) & max. Response speed (rpm)

Encoder Head & Scale		SR-P40		SR-P64		SR-P1000	
		SR- R500	SR- R1000	SR- R500	SR- R1000	SR- R500	SR- R1000
Interpolation rate	1000					125000 ppr, 2250 rpm	250000 ppr, 1125 rpm
	800					100000 ppr, 3000 rpm	200000 ppr, 1500 rpm
	400					50000 ppr, 6000 rpm	100000 ppr, 3000 rpm
	200					25000 ppr, 6000 rpm	50000 ppr, 6000 rpm
	100					12500 ppr, 6000 rpm	25000 ppr, 6000 rpm
	64			8000 ppr, 6000 rpm	16000 ppr, 3000 rpm		
	40	5000 ppr, 6000 rpm	10000 ppr, 3000 rpm				