

Main Unit Spec

Laser Rotary Encoder KP-1Z		
	Light source	Semiconductor Laser 780 nm, 5 mw max.
	Wave / Revolution	81000
	Angle / Pulse	16 arc-sec
	Maximum response frequency	250 kHz (3 rps)
A,B phase incremental	output signal	2 phase sine wave signal
	signal type	Differential Line Driver
	amplitude	1.0 V _{p-p} (typical)
Z phase reference	output signal	Rectangle wave signal
	signal type	TTL output
	type	high / low reverse each 180 ± 1°
Detection unit installation	eccentricity	± 25 μm
	inclination	3 arc-sec toward
Disk installation	eccentricity	less than 10 μm
	disk surface runout	less than 1 arc-min.
Power supply	voltage	± 5 V DC, ± 5 %
	current (with no output load)	+ 5 V 200 mA max., - 5 V 100 mA max.
Outer Diameter	Detection unit	56 mm
	Disk	22 mm
	Weight (without cable)	approx. 160 g
Ambient conditions	operating temperature	0 ~ 50 °C
	storage temperature	- 10 ~ 60 °C
	humidity	max. 90 % RH (no condensation)