

Main Unit Spec

Laser Rotary Encoder X-1M		
Light source		Semiconductor Laser 780 nm, 5 mw max.
Wave / Revolution		225000
Angle / Pulse		5.76 arc-sec
Maximum response frequency		675 kHz (3 rps)
A,B phase incremental	output signal	2 phase sine wave signal
	signal type	Balanced output
	amplitude	1.1 V \pm 0. 2 Vp-p (at 50 kHz, no load)
Z phase reference	output signal	Rectangle wave signal
	signal type	Differential Line driver
	pulse width	1.0 \pm 0.2 μ sec
Permissible eccentricity	detection unit	less than 50 μ m
	disk unit	less than 10 μ m
Rotor's inertial moment		1450 gcm ² (disk)
Power supply	voltage	\pm 5 V DC, \pm 5 %
	current (with no output load)	+ 5 V 260 mA max., - 5 V 60 mA max
Outer Diameter	Detection unit	140 mm
	Disk unit	100 mm
Weight (without cable)	Detection unit	approx. 1.2 kg
	Disk unit	approx . 0.26 kg
Ambient conditions	operating temperature	10 ~ 40 °C
	storage temperature	- 10 ~ 60 °C
	humidity	max. 80 %RH (no condensation)