



ELECTRICAL SPEC.

Detection System	Incremental
Output Wave	Square Wave
Stroke (mm)	200, 500, 1000
Resolution (pulse/mm)	1, 0.5, 0.2, 0.1, 0.04
Accuracy	±0.05% FS, ±1 count
Output Phase	AB or ABZ phase
Electronics	Voltage, Open Collector, Push Pull or Line Driver
Power Supply	DC 8~26V, DC 5V fixed
Current Consumption	≤ 60 mA
Output Capacity	Sync. Current: 20 mA, Residual Voltage: 0.5V or less
Max. Response	10K Hz ~ 50K Hz
Phase Different	A, B phase different 90°±45° (T/4±T/8), Z phase T±T/2
Wave Form Rise / Fall	2 μs or less

MECHANICAL SPEC.

Wire Specification	Material: SUS304 with nylon coating Diameter: 0.6 mm; Breaking load: 16 Kg
Starting Torque (at 25°C)	Max. 400 g
Max. Travel Speed	1,000 mm / sec.
Vibration	10g (10±1,500 Hz)
Polarity	Against Reverse Protection
Shock	20g per 11 ms
Cable	Ø4.5, 50 cm long
Net Weight	< 450 g
Starting Torque on Spring	Max. 700 g

ENVIRONMENTAL SPEC.

Operating Temp. / Humidity	0°C ~ 60°C
Storage Temp.	-20°C ~ 80°C
Protection	IP 50 (only for encoder housing)
Life	Typical > 1 X 10 ⁶ cycles

ORDERING INFORMATION

IMT-S -	<i>Measuring Range</i>	-	<i>Resolution</i>	-	<i>Output Phase</i>	-	<i>Electronics</i>
	02: 200 mm 05: 500 mm 10: 1000 mm		1: 1mm 05: 0.5mm 02: 0.2mm 01: 0.1mm 004: 0.04mm		Blank: AB phase *Z: ABZ phase		Blank: NPN Voltage C: NPN Open Collector PP: Push-Pull *L: Line Driver 5Vdc *HL: Line Driver 5~26Vdc