

EM81 / EM121 EM83 / EM123

Magnetic Pickups (MPU)



Is a measuring device for monitoring the speed of the driving force. When a ferromagnetic object (Usually the generator's flywheel gear) passes by the tip of the MPU, it produces a magnetic field and the MPU induced a voltage signal internally and the frequency of the voltage as the input to the speed control signal and accurately measure the prime mover speed.



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1. INTRODUCTION

Operated Range 500 to 10,000 Hz
Clearance 0.5 ± 0.15 mm

Vibration 3G @100 ~ 2K Hz
Operating Temperature -40 ~ 100°C

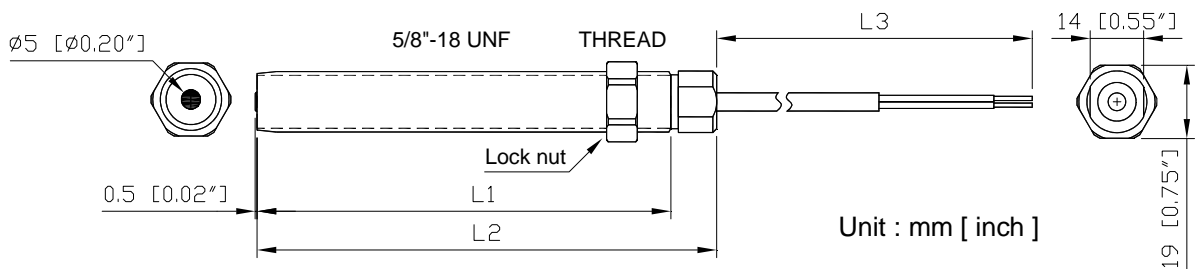
2. INSTALLATION

The location for installing the MPU usually located on the top of the flywheel housing. Before installing the MPU, rotate the flywheel to confirm the shaft is aligned and not vibrating. The connection of the two conducting wires must be soldered, crimped and then wrapped with insulating tape or connected via connecting terminal to ensure proper isolation between the two wires.

3. ADJUSTMENT

Install the MPU to flywheel housing and adjust the clearance to 0.25 to 0.55mm from the tip of MPU and the flywheel gear tip. MPU will fail and damage if comes in contact with the flywheel during operation. When installing, first tighten the MPU until touches the flywheel gear tip, then counter rotate one third (1/3) of a circle. (Every full rotate of a circle creates 1.5mm clearance). Tighten the fastening nut when the correct clearance is adjusted.

4. DIMENSION



	L1	L2	L3	DC Resistance	Weight	Thread
EM81	68[2.68"]	80[3.15"]	150[5.91"]	95Ω ± 3%	80g ± 2 %	5/8"-18UNF
EM83	68[2.68"]	80[3.15"]	150[5.91"]	300Ω ± 3%	80g ± 2 %	5/8"-18UNF
EM121	108[4.25"]	120[4.72"]	150[5.91"]	95Ω ± 3%	105g ± 2 %	5/8"-18UNF
EM123	108[4.25"]	120[4.72"]	150[5.91"]	300Ω ± 3%	105g ± 2 %	5/8"-18UNF

Installation Reference

