Speed Detector Sensor Module;Chip : LM393

<https://sites.google.com/site/myscratchbooks/home/projects/project-11-infrared-speed-sensing-module>

I found this lol

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| 1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 | int encoder\_pin = 2; *// The pin the encoder is connected*  unsigned int rpm; *// rpm reading* **volatile** byte pulses; *// number of pulses* unsigned long timeold;  *// The number of pulses per revolution* *// depends on your index disc!!* unsigned int pulsesperturn = 20;   void counter()  {  *//Update count*  pulses++;   }  void setup()  {  Serial.begin(9600);  *//Use statusPin to flash along with interrupts*  pinMode(encoder\_pin, INPUT);    *//Interrupt 0 is digital pin 2, so that is where the IR detector is connected*  *//Triggers on FALLING (change from HIGH to LOW)*  attachInterrupt(0, counter, FALLING);  *// Initialize*  pulses = 0;  rpm = 0;  timeold = 0;   }   void loop()  {  **if** (millis() - timeold >= 1000){ */\*Uptade every one second, this will be equal to reading frecuency (Hz).\*/*    *//Don't process interrupts during calculations*  detachInterrupt(0);  *//Note that this would be 60\*1000/(millis() - timeold)\*pulses if the interrupt*  *//happened once per revolution*  rpm = (60 \* 1000 / pulsesperturn )/ (millis() - timeold)\* pulses;  timeold = millis();  pulses = 0;    *//Write it out to serial port*  Serial.print("RPM = ");  Serial.println(rpm,DEC);  *//Restart the interrupt processing*  attachInterrupt(0, counter, FALLING);  }  } |