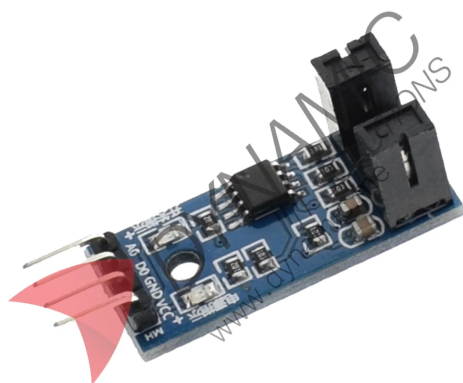


Speed Sensor Module



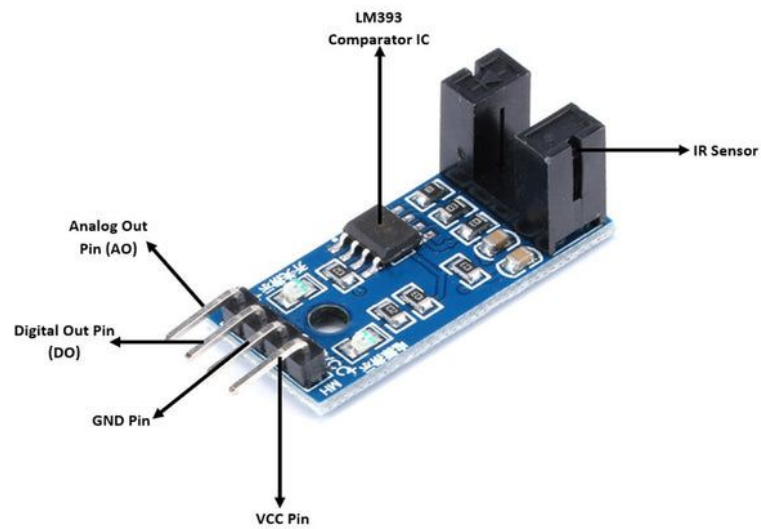
Feature

The Speed Sensor Module is a slot-type infrared sensor with a 5mm detection gap. It uses an LM393 comparator for clean, TTL-level digital output. This module is ideal for motor speed detection, encoder feedback, and object counting. It outputs a digital pulse when an object interrupts the IR beam, suitable for interfacing directly with microcontrollers or triggering external devices such as relays or alarms.

Specifications	
Model	IR Slot Speed Sensor Module (LM393-based)
Detection Method	Infrared interruption (5 mm slot width)
Output Type	Digital (TTL level 0/1)
Supply Voltage	3.3 V – 5 V
Current Drive Capacity	>15 mA (via LM393 comparator)
Dimensions	32 mm × 14 mm × 7 mm
Indicators	Power LED, Output status LED
Sensor Type	Photo-interrupter (optical coupling)
Response Time	Fast digital switching (pulse-level output)
Use Cases	Motor speed measurement, encoder feedback, object/pulse counting, optical limit switch, buzzer/alarm triggering

Pinouts:

Pin Name	Type	Description
VCC	Power Input	Supply voltage input (3.3 V – 5 V)
GND	Power Ground	Common ground
DO	Digital Output	TTL logic signal (HIGH when clear, LOW when beam is blocked)
AO	Unused	No analog output (pin non-functional)



Product Pictures:

