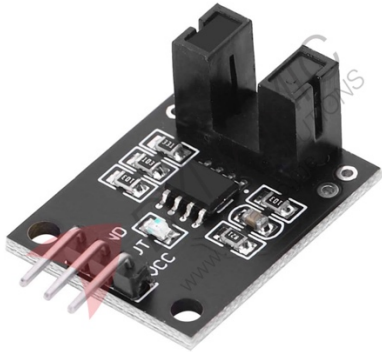


Infrared Beam Sensor/Encoder Module



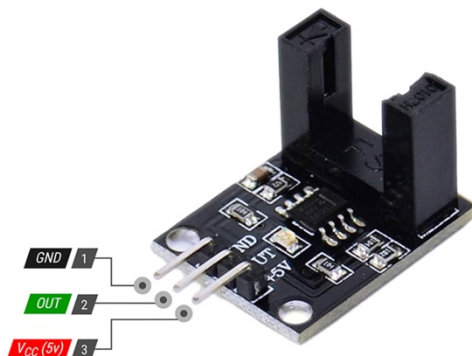
Features:

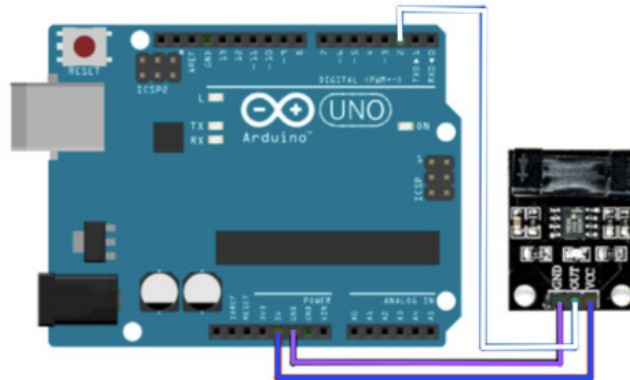
The Infrared Beam Sensor / Encoder Module provides precise object detection using an IR transmitter/receiver pair across a U-shaped detector. The LM393 comparator circuit ensures clean detection and stable digital output, while the LED indicator visually signals beam interruption. Designed for 3.3V–5V operation, this module is ideal for counting objects, measuring wheel revolutions, acting as optical limit switches, or detecting object passage in chutes or feeders. Robust uprights and easy mounting holes make it suitable for flexible and reliable embedded applications.

Specifications	
Operating Voltage	3.3–5V
Output	Normally LOW, goes HIGH when IR beam is broken
Logic High (Vcc = 5V)	> 3.5V
Logic Low	< 0.2V
PCB Dimensions (L x W)	25 x 20mm
U-Channel Height	15mm
U-Channel Inner Dimensions (H x W)	12 x 10mm
LED Indicator	Yes
Usage	Object counting, RPM measurement, limit switch, optical detection

Pinouts:

Pin Name	Type	Description
GND	Power	Module ground connection
VCC	Power	Power supply (3.3–5V)
OUT	Output	Signal output, normally LOW, goes HIGH when IR beam is broken





Product Pictures:

