

# LamaPLC: PIR sensors

A *Passive Infrared (PIR)* sensor is an electronic device that detects motion by sensing changes in infrared light (radiant heat) emitted by nearby objects like people, animals, or vehicles.







“Passive” means it emits no energy; it only detects infrared radiation, making it suitable for applications such as security alarms, automatic lighting, and motion-activated doors.

The **HC-SR501** is a widely used, low-power Passive Infrared (PIR) motion sensor module designed to detect the movement of warm objects, such as humans or animals, by sensing changes in infrared radiation

The **HC-SR505 Mini PIR Module** is a much smaller version of the HC-SR501.


The **AM312 PIR Sensor** is another small-form-factor alternative often recommended over the HC-SR501 due to its lower power consumption and better electromagnetic interference resistance.

**Panasonic EKMB/EKMC Series** are professional-grade PIR sensors that offer superior reliability and extremely low power consumption (as low as 2  $\mu\text{A}$  in standby mode) compared with generic HC-SR501 modules.

Feature	HC-SR501	HC-SR505	AM-312	Panasonic EKMB/EKMC Series
				
<b>Operating Voltage</b>	4.5V - 20V DC	4.5V - 20V DC	2.7V - 12V DC	2.3V - 6V (EKMB), 3V - 6V (EKMC)
<b>Quiescent Current</b>	~50 $\mu\text{A}$ - 65 $\mu\text{A}$	~60 $\mu\text{A}$	<0.1mA (~100 $\mu\text{A}$ )	Extremely Low (e.g., 1 $\mu\text{A}$ , 2 $\mu\text{A}$ , 6 $\mu\text{A}$ for EKMB; 170 $\mu\text{A}$ for EKMC)
<b>Detection Range</b>	3m - 7m (up to 7m, adjustable)	Up to 3m	3m - 5m	Varies greatly by model/lens (e.g., 5m, 12m, 17m options available)
<b>Detection Angle</b>	<140° cone angle	~100° cone angle	$\leq 100^\circ$ cone angle	Varies by lens (e.g., 94°x82°, 150° in one axis)
<b>Adjustable Delay</b>	Yes (via potentiometer, ~5s - 300s)	No (fixed ~6-12s)	No (fixed ~2s)	Varies by specific model, some are highly configurable
<b>Adjustable Sensitivity</b>	Yes (via potentiometer)	No	No	Varies by specific model

Feature	HC-SR501	HC-SR505	AM-312	Panasonic EKMB/EKMC Series
Trigger Mode	Configurable (Repeatable 'H' / Non-repeatable 'L')	Repeatable only (by default)	Repeatable only (by default)	Varies by specific model
Physical Size	Standard (32x24mm module)	Mini/Small	Mini/Small (10x8mm module)	Very small, integrated components, often lensless options available
Reliability/Noise	Prone to false triggers, low quality processing	Can be triggered by temperature changes/power noise	Small, but has reports of false alarms	Superior reliability, high signal-to-noise ratio, highly shielded
Cost	Very Low	Very Low	Very Low	Higher cost (professional grade)

For most beginner hobbyist projects, the HC-SR501 offers great versatility because of its adjustable settings, while the HC-SR505 and AM312 are excellent for size-constrained, simple applications. For professional or battery-critical applications demanding high reliability, the Panasonic EKMB/EKMC series is a superior, albeit more expensive, option.



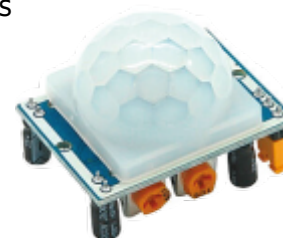
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2026/02/14 23:38

## HC-SR501 PIR sensor

The HC-SR501 PIR sensor module features a 3-pin connector. Because the labels on the circuit board are often hidden underneath the white Fresnel lens, it is important to orient the module correctly when identifying pins.



### Standard Pinout

When looking at the back of the board (the side with the components and adjustment knobs) with the pins at the bottom:

- **VCC (Left/Right depending on version):** Power supply input. Most modules accept 5V to 12V DC.
- **OUT (Center):** Digital output signal. It sends 3.3V (HIGH) when motion is detected and 0V

(LOW) when idle.

- **GND (Right/Left depending on version):** Ground connection to the power supply.
- **Pro Tip:** If you are unsure, you can gently pop off the white dome lens to see the labels (VCC, OUT, GND) printed directly on the circuit board.

## Control Adjustments

The back of the module also contains two potentiometers and a mode jumper:

- **Sensitivity Adjustment:** Changes the detection range (typically between 3m and 7m).
- **Time Delay Adjustment:** Sets how long the output stays HIGH after detection (typically 5s to 300s).
- **Trigger Jumper:**
  - **L (Single Trigger):** Output stays HIGH for the set time, then goes LOW, even if motion continues.
  - **H (Repeatable Trigger):** Output remains HIGH as long as motion is continuous, resetting the timer with each movement.

## Arduino & HC-SR501

To interface the HC-SR501 with an Arduino, connect the sensor's OUT pin to digital pin 2, VCC to 5V, and GND to GND.

The following sketch uses the Arduino IDE Serial Monitor to display motion status and turns on the built-in LED (Pin 13) when motion is detected.

```
/*
 * HC-SR501 PIR Motion Sensor Test
 */

const int PIR_PIN = 2;    // HC-SR501 Out pin
const int LED_PIN = 13;  // Onboard LED

void setup() {
  pinMode(PIR_PIN, INPUT);
  pinMode(LED_PIN, OUTPUT);
  Serial.begin(9600);

  // Warm-up period for the PIR sensor
  Serial.println("Warming up sensor... please wait 30-60s");
  delay(30000);
  Serial.println("Sensor Active");
}

void loop() {
  int motionState = digitalRead(PIR_PIN);

  if (motionState == HIGH) {
    digitalWrite(LED_PIN, HIGH);
    Serial.println("Motion Detected!");
  }
}
```

```

} else {
  digitalWrite(LED_PIN, LOW);
  Serial.println("No motion.");
}

delay(500); // Small delay for serial stability
}

```

## Essential Setup Tips

- **Warm-up Delay:** The HC-SR501 requires approximately 30 to 60 seconds to calibrate to the room's infrared signature after power-on. During this time, it may trigger false positives.
- **Trigger Jumper:** For this code, set the yellow jumper on the back to H (Repeatable Trigger) so the LED stays lit as long as you keep moving.
- **Voltage Logic:** Although you power the module at 5V, the OUT pin uses 3.3V logic, which is compatible with both 5V Arduinos and 3.3V boards like the ESP32 or Raspberry Pi Pico.

## Sensor topics on lamaPLC

Page	Date	Tags
• <a href="#">lamaPLC project: Arduino - OLED SH1106 with AHT20/BMP280 Sensor</a>	2026/04/23 21:51	<a href="#">bmp280</a> , <a href="#">aht20</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">pressure</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">oled</a> , <a href="#">sh1106</a> , <a href="#">arduino code</a>
• <a href="#">lamaPLC project: Arduino - Vibration sensors</a>	2026/04/15 17:21	<a href="#">vibration</a> , <a href="#">sensor</a> , <a href="#">piezoelectric</a> , <a href="#">mems</a> , <a href="#">eddy-current</a> , <a href="#">electrodynamic</a> , <a href="#">gxfm0459</a> , <a href="#">ldtm-028k</a> , <a href="#">arduino</a> , <a href="#">arduino code</a>
• <a href="#">lamaPLC project: Digitales Potentiometer Board Moduls</a>	2026/04/11 18:29	<a href="#">sensor</a> , <a href="#">module</a> , <a href="#">arduino code</a> , <a href="#">renesas</a> , <a href="#">x9c series</a> , <a href="#">x9c102</a> , <a href="#">x9c103</a> , <a href="#">x9c104</a> , <a href="#">x9c503</a> , <a href="#">xdcp</a> , <a href="#">digitally controlled potentiometer</a>
• <a href="#">lamaPLC project: Sension SCD CO<sup>2</sup> measurement module</a>	2026/04/15 19:34	<a href="#">scd30</a> , <a href="#">scd40</a> , <a href="#">scd41</a> , <a href="#">iaq</a> , <a href="#">ndir</a> , <a href="#">sensor</a> , <a href="#">i2c</a> , <a href="#">arduino code</a>
• <a href="#">lamaPLC: A0221AU / A02YYUW Waterproof Ultrasonic Distance Sensor with UART communication</a>	2026/04/23 21:52	<a href="#">a0221au</a> , <a href="#">a02yyuw</a> , <a href="#">waterproof</a> , <a href="#">ultrasonic</a> , <a href="#">distance</a> , <a href="#">sensor</a> , <a href="#">uart</a> , <a href="#">ip67</a> , <a href="#">serial</a> , <a href="#">sen0311</a> , <a href="#">dfrobot</a>
• <a href="#">LamaPLC: AHT10 Modul</a>	2026/03/22 03:14	<a href="#">communication</a> , <a href="#">i2c</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">sensor</a> , <a href="#">aht</a> , <a href="#">aht 10</a> , <a href="#">modul</a>
• <a href="#">LamaPLC: AHT20 / BMP280 Modul</a>	2026/04/23 21:52	<a href="#">bmp280</a> , <a href="#">aht20</a> , <a href="#">adafruit</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">pressure</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">i2c</a>
• <a href="#">LamaPLC: Allegro ACS758 Hall-effect linear current sensors</a>	2026/04/23 21:52	<a href="#">cjmcu</a> , <a href="#">cjmcu-758</a> , <a href="#">acs758</a> , <a href="#">acs758lcb-050b</a> , <a href="#">acs758lcb-100b</a> , <a href="#">acs758kcb-150b</a> , <a href="#">acs758ecb-200b</a> , <a href="#">hall-effect</a> , <a href="#">current</a> , <a href="#">sensor</a> , <a href="#">analog</a> , <a href="#">arduino</a> , <a href="#">code</a>
• <a href="#">LamaPLC: APDS - Avago ALS and proximity detection sensors with I<sup>2</sup>C communication</a>	2026/04/23 21:52	<a href="#">avago</a> , <a href="#">apds-9900</a> , <a href="#">apds-9930</a> , <a href="#">apds-9960</a> , <a href="#">als</a> , <a href="#">proximity</a> , <a href="#">detection</a> , <a href="#">gesture recognition</a> , <a href="#">gesture</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>

• lamaPLC: Arduino Modul: BME680	2026/05/12 18:40	code, c, 2026, arduino, bme680, sensor, i2c, communication
• lamaPLC: AS5600 Magnetic Induction Angle Measurement Sensor Module	2026/05/13 00:06	communication, i2c, as5600, as-5600, magnetic, induction, angle, sensor bme280, bme680, bme688, bmp180, bmp280, hw-611, hw611, bosch, temperature, humidity, pressure, sensor, arduino, i2c, communication, ai, cjmcu, volatile organic compounds, vocs, volatile sulfur compounds, vsocs, iaq
• LamaPLC: BMP/BME Bosch Temperature/Humidity/Pressure sensors with I <sup>2</sup> C communication	2026/04/23 21:52	bq25570, sensor, texas instruments, nano-power management, dc-dc boost charger, mppt, solar, thermoelectric, piezoelectric, energy harvesting, eh
• LamaPLC: BQ25570 / CJMCU-2557 - Texas Instruments nano-power management IC and module	2026/04/23 21:52	cjmcu-219, ina-219, ina219, breakout board, i2c, communication, sensor, voltage, current, arduino, code, cjmcu
• LamaPLC: CJMCU-219/INA-219 breakout board/IC with I <sup>2</sup> C communication	2026/04/23 21:52	cjmcu-3216, cjmcu, ap-3216, ap3216, ambient light, proximity, sensor, arduino, code, i2c, communication
• LamaPLC: CJMCU-3216 / AP-3216 integrated digital ambient light and proximity sensor module/IC with I <sup>2</sup> C communication	2026/04/23 21:52	cjmcu-3901, cjmcu, pmw3901, pmw-3901, optical flow, sensor, pixart, spi, communication, arduino, code, pmw3901mb-txqt
• LamaPLC: CJMCU-3901/PMW-3901 compact optical flow sensor module/IC by PixArt with SPI communication	2026/04/23 21:52	cjmcu, cjmcu-6701, acs758, acs-758, galvanic skin response, gsr, electrodermal activity, eda, spi, communication, arduino, code, sensor, healthcare
• LamaPLC: CJMCU-6701: Biosensor for measuring Galvanic Skin Response (GSR) with SPI communication	2026/04/23 21:52	analog, cjmcu, cjmcu-6814, mics6814, mics-6814, sensor, arduino, code, carbon monoxide, co, ammonia, nh <sub>3</sub> , nitrogen dioxide, no <sub>2</sub>
• LamaPLC: CJMCU-6814 combined gas sensor module for CO, NO <sub>2</sub> , NH <sub>3</sub>	2026/04/23 21:52	cjmcu-811, ccs811, gas, sensor, vocs, tvoc, eco2, co2, arduino, air quality metal oxide, mox, i2c, micropython, rp2040-eth
• lamaPLC: CJMCU-811 CCS811 Gas Sensor (VOCs TVOC CO <sub>2</sub> )	2026/04/23 21:52	cjmcu-8221, ad8221ar, analog devices, amplifier, sensor, cjmcu
• LamaPLC: CJMCU-8221 Analog Devices Precision instrumentation amplifier module	2026/04/23 21:52	d6t, d6t-32l, d6t-44l, d6t-8l, d6t-1a, omron, non-contact, thermal, sensor, i2c, arduino, code
• LamaPLC: D6T Omron Non-Contact Thermal Sensors with I <sup>2</sup> C communication	2026/04/23 21:52	dht11, dht20, dht22, temperature, humidity, pressure, sensor, 1-wire, arduino, code
• LamaPLC: DHT Temperature /Humidity sensors with 1-wire / I <sup>2</sup> C communication	2026/04/23 21:52	dps310, infineon, temperature, pressure, sensor, arduino, i2c, communication, code
• LamaPLC: DPS Infineon Temperature/Pressure sensors with I <sup>2</sup> C communication	2026/04/23 21:52	

- [lamaPLC: DS18B20 1-Wire Digital Thermometer](#) 2026/04/23 21:52 [ds18b20](#), [sensor](#), [1-wire](#), [communication](#), [arduino](#), [thermometer](#), [parasitic mode](#)
- [lamaPLC: Energy, power, current, and voltage](#) 2025/05/31 23:32 [i2c](#), [i c](#), [communication](#), [arduino](#), [energy](#), [power](#), [current](#), [sensor](#), [ina226](#), [ens160](#), [sciosense](#), [gas-quality](#), [i2c](#), [communication](#), [sensor](#), [arduino](#), [code](#), [eco2](#), [tvoc](#), [aqi](#), [indoor air quality](#), [iaq](#), [co2](#), [voc](#)
- [LamaPLC: ENS ScioSense Multi-gas sensors with I<sup>2</sup>C communication](#) 2026/04/23 21:52 [arduino](#), [ens160](#), [aht21](#), [air quality](#), [sensor](#), [co](#), [eco](#), [tvoc](#), [module](#), [aqi](#)
- [LamaPLC: ENS160 + AHT21 Air Quality Sensor - CO, ECO, TVOC, Temp & Humidity Module](#) 2026/04/23 21:52 [gas](#), [sensor](#), [i2c](#), [onewire](#), [communication](#), [mq-3](#), [mq-4](#), [mq-5](#), [mq-6](#), [mq-7](#), [mq-8](#), [mq-9](#), [mq-135](#), [gm-102b](#), [gm-302b](#), [gm-502b](#), [gm-702b](#), [alcohol](#), [ch4](#), [natural gas](#), [smoke](#), [lng](#), [co](#), [co2](#), [lpg](#), [h2](#), [iso-butane](#), [nox](#), [nh3](#), [benzene](#), [town gas](#), [formaldehyde](#), [propane](#), [humidity](#), [temperature](#), [voc](#), [grv gas sens v2](#)
- [LamaPLC: Gas sensors](#) 2023/07/01 17:29 [gm-102b](#), [gm-302b](#), [gm-502b](#), [gm-702b](#), [mems](#), [gas-quality](#), [sensor](#), [arduino](#), [code](#), [nitrogen dioxide](#), [no2](#), [volatile organic compounds](#), [voc](#), [carbon monoxide](#), [co](#), [ethyl alcohol](#), [c2h5ch](#), [formaldehyde](#), [ch2o](#), [alcohol](#), [c2h5oh](#)
- [LamaPLC: GM MEMS Gas-sensors](#) 2026/04/23 21:52 [stmicroelectronics](#), [lsm303dlhc](#), [i2c](#), [lsm303](#), [sensor](#), [gy-511](#), [6dof](#), [pololu](#), [module](#), [arduino](#)
- [lamaPLC: GY-511 6DOF sensor module](#) 2026/03/22 01:44 [hc-sr04](#), [ultrasonic](#), [sensor](#), [arduino](#), [code](#)
- [LamaPLC: HC-SR04 Ultrasonic Sensor Module](#) 2026/04/23 21:52 [sht21](#), [htu21](#), [si7021](#), [gy-21](#), [gy-213v](#), [hdc1080](#), [gy-213v-hdc1080](#), [cjmcu](#), [cjmcu-1080](#), [texas instruments](#), [temperature](#), [humidity](#), [sensor](#), [i2c](#), [communication](#), [arduino](#), [code](#)
- [LamaPLC: HDC Texas Instruments Temperature/humidity sensors with I<sup>2</sup>C communication](#) 2026/04/23 21:52 [htu](#), [htu31d](#), [htu21d](#), [htu20d](#), [sht20](#), [htu20](#), [sht21](#), [htu21](#), [si7021](#), [gy-21](#), [gy-213v](#), [hdc1080](#), [si702](#), [gy-20](#), [sht31](#), [htu31](#), [si7031](#), [gy-31](#), [te connectivity](#), [temperature](#), [humidity](#), [i2c](#), [communication](#), [sensor](#), [arduino](#), [code](#)
- [LamaPLC: HTU TE Connectivity temperature/humidity sensors with I<sup>2</sup>C communication](#) 2026/04/23 21:52 [hx711](#), [hx-711](#), [analog-to-digital](#), [adc](#), [converter](#), [load cell](#), [wheatstone bridge](#), [weight](#), [sensor](#), [communication](#), [arduino](#), [code](#)
- [LamaPLC: HX711 24-bit analog-to-digital converter \(ADC\)](#) 2026/04/11 18:28 [i2c](#), [i c](#), [communication](#), [arduino](#), [energy](#), [power](#), [current](#), [monitor](#), [sensor](#), [ina219](#), [gy-219](#), [ina226](#), [gy-216](#), [ina228](#), [gy-228](#), [ina237](#), [ina238](#), [ina260](#), [ina3221](#), [ina](#)
- [lamaPLC: INA modules with Arduino libraries](#) 2026/04/23 21:52

• lamaPLC: INA226 - current/voltage/power monitor with I <sup>2</sup> C communication	2026/04/23 21:52	i2c, i c, communication, arduino, energy, power, current, monitor, sensor, ina226, ina219, ina
• lamaPLC: LTC3588 - Nanopower energy harvesting power supply IC	2026/04/23 21:52	communication, arduino, sensor, energy harvesting, eh, energy, ambient power
• LamaPLC: M01 - V0.4 Laser ranging sensor with UART communication	2026/04/23 21:52	distance measurement, laser, distance, sensor, m01
• LamaPLC: MAX30100/MAX30102 Heart Rate Click Sensor Module	2026/04/23 21:52	max30102, max30100, heart rate click, sensor, communication, i2c, arduino, code
• lamaPLC: Max31865 RTD to Digital Converter - PT100/PT1000 Platine	2026/04/23 21:52	max31865, rtd, pt 100, pt 1000, temperature, spi, platinum, arduino, code, sensor, adafruit
• LamaPLC: MAX4466/MAX9814: Low-noise Microphone Preamplifiers	2026/04/23 21:52	audio, microphone, analogue audio, max4466, max9814, max 4466, max 9814, agc, preamplifiers, sensor, arduino, code
• LamaPLC: MH-Z19 series of NDIR CO <sub>2</sub> sensors	2026/04/23 21:52	mh-z19, mh-z19d, mh-z19c, mh-z19b, mh-z19e, ndir, co <sub>2</sub> , sensor, winsen, uart, pwm, communication, non-dispersive infrared, infrared, ir, temperature, arduino, code, tasmota
• lamaPLC: MPU-6050 (HW-123, GY-521) 6-axis MotionTracking device	2026/04/23 21:52	mpu-6050, hw-123, gy-521, 6-axis motiontracking, dmp, temperature, sensor, mems, arduino code, arduino, accelerometer, gyroscope, tilt
• LamaPLC: MQ Winsen Gas-sensors	2026/04/23 21:52	mq, mq-2, mq-3, mq-4, mq-5, mq-6, mq-7, mq-8, mq-9, mq-131, mq-135, mq-137, winsen, gas-sensor, sensor, arduino, code, alcohol, c <sub>2</sub> h <sub>5</sub> oh, benzine gas, smoke, lpg, propane, c <sub>3</sub> h <sub>8</sub> , hydrogen, h <sub>2</sub> , methane, ch <sub>4</sub> , iso-butane, town gas, ammonia, nh <sub>3</sub>
• LamaPLC: PIR sensors	2026/04/23 21:52	hc-sr501, hc-sr505, am-312, ekmb ekmc, pir, motion, sensor, arduino, code
• LamaPLC: Pixart PAJ7620U2 Gesture recognition sensors/module with I <sup>2</sup> C communication	2026/04/23 21:52	paj7620u2, gy-paj7620, pixart, gesture recognition, i2c, communication, sensor, arduino, code
• lamaPLC: PT100 / PT1000	2025/09/23 18:59	pt100, pt1000, temperature, sensor, platine, rtd
• lamaPLC: PTA8C04 4-channel PT100 Modbus Modul	2026/02/14 18:42	pta8c04, sensor, modbus, rtu, rs-485, communication, platine, um72
• LamaPLC: RCWL - Microwave radar sensor	2026/04/23 21:52	rcwl-0516, rcwl, microwave, radar, sensor, arduino, code
• lamaPLC: RD-xx - Ai-Thinker Radar Module with UART communication	2026/04/23 21:52	radar, s3km1110, fmcw, rd-01, rd-03, rd-03d, ai-thinker, k-band, 24 ghz, sensor, distance, micro-movements
• lamaPLC: RP2040_ETH_Modul: Read BME 680/688 sensor data	2026/05/12 21:06	code, micropython, 2026, rp2040 eth, bme680, i2c, sensor, communication
• lamaPLC: RP2040_ETH_Modul: Read BME 680/688 sensor data and store in Modbus input registers	2026/05/12 18:58	code, micropython, 2026, rp2040 eth, bme680, i2c, sensor, communication

• <a href="#">LamaPLC: SGP Sensirion TVOC/VOC sensors with I<sup>2</sup>C communication</a>	2026/04/15 19:41	<a href="#">sgp30</a> , <a href="#">sgp40</a> , <a href="#">sgp41</a> , <a href="#">sensirion</a> , <a href="#">gas-sensor</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">eco2</a> , <a href="#">voc</a> , <a href="#">tvoc</a> , <a href="#">indoor air quality</a> , <a href="#">iaq</a> , <a href="#">nox</a> , <a href="#">hydrogen</a>
• <a href="#">LamaPLC: SHT Sensirion Temperature/humidity sensor with I<sup>2</sup>C communication</a>	2026/04/23 21:52	<a href="#">sht20</a> , <a href="#">sht21</a> , <a href="#">sht25</a> , <a href="#">sht30</a> , <a href="#">sht31</a> , <a href="#">sht35</a> , <a href="#">sht40</a> , <a href="#">gy21</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>
• <a href="#">LamaPLC: Texas Instruments ADCs: Delta-sigma multi-channel Analog Converters with SPI communication</a>	2026/04/23 21:52	<a href="#">ads111x</a> , <a href="#">ads12xx</a> , <a href="#">delta-sigma</a> , <a href="#">converter</a> , <a href="#">texas instruments</a> , <a href="#">adc</a> , <a href="#">spi</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">ads1110</a> , <a href="#">ads1112</a> , <a href="#">ads1113</a> , <a href="#">ads1114</a> , <a href="#">ads1115</a> , <a href="#">ads1118</a> , <a href="#">ads1119</a> , <a href="#">ads1220</a> , <a href="#">ads1232</a> , <a href="#">ads1234</a> , <a href="#">ads1256</a> , <a href="#">ads1261</a> , <a href="#">ads1263</a> , <a href="#">multi channel</a>
• <a href="#">LamaPLC: TOFnnnC STMicroelectronics Time-of-Flight (ToF) sensors with I<sup>2</sup>C communication</a>	2026/04/23 21:52	<a href="#">tof050c</a> , <a href="#">vl6180</a> , <a href="#">tof200c</a> , <a href="#">vl53l0x</a> , <a href="#">tof400c</a> , <a href="#">vl53l1x</a> , <a href="#">stmicroelectronics</a> , <a href="#">time-of-flight</a> , <a href="#">tof</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>
• <a href="#">LamaPLC: UICPAL Temp.humi.sensor</a>	2023/06/25 00:43	<a href="#">simatic</a> , <a href="#">s7</a> , <a href="#">modbus</a> , <a href="#">communication</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">sensor</a>
• <a href="#">LamaPLC: VL53Lnn STMicroelectronics time-of-flight (ToF) laser-ranging sensors with I<sup>2</sup>C communication</a>	2026/04/23 21:52	<a href="#">vl53l0x</a> , <a href="#">vl53l1x</a> , <a href="#">vl53l0 1xv2</a> , <a href="#">gy-530</a> , <a href="#">time-of-flight</a> , <a href="#">tof</a> , <a href="#">laser-ranging</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>
• <a href="#">LamaPLC: VL6180X STMicroelectronics Time-of-Flight (ToF) sensor with I<sup>2</sup>C communication</a>	2026/04/23 21:52	<a href="#">vl6180x</a> , <a href="#">stmicroelectronics</a> , <a href="#">time-of-flight</a> , <a href="#">tof</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>
• <a href="#">LamaPLC: Waveshare TOF Laser Range Sensor with UART / I<sup>2</sup>C communication</a>	2026/04/23 21:52	<a href="#">distance measurement</a> , <a href="#">laser</a> , <a href="#">range</a> , <a href="#">sensor</a> , <a href="#">tof</a> , <a href="#">waveshare</a>
• <a href="#">lamaPLC: XGZP68xx: Silicon Pressure Sensors/Module</a>	2026/05/15 15:17	<a href="#">communication</a> , <a href="#">i2c</a> , <a href="#">sensor</a> , <a href="#">modul</a> , <a href="#">pressure</a> , <a href="#">cfsensor</a> , <a href="#">xgzp68xx</a> , <a href="#">xgzp6810d</a> , <a href="#">xgzp6857d</a> , <a href="#">xgzp6859d</a> , <a href="#">xgzp6887d</a> , <a href="#">xgzp6897d</a> , <a href="#">xgzp6899a</a> , <a href="#">piezoresistive</a> , <a href="#">capacitive</a>
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• <a href="#">LM393: Dual differential comparator (flame, light, sound sensors)</a>	2026/05/12 22:18	<a href="#">communication</a> , <a href="#">analog</a> , <a href="#">lm393</a> , <a href="#">lm-393</a> , <a href="#">flame</a> , <a href="#">ir</a> , <a href="#">sound</a> , <a href="#">hall</a> , <a href="#">sensor</a> , <a href="#">ky-026</a> , <a href="#">hw-484</a> , <a href="#">ky-037</a> , <a href="#">ky-038</a> , <a href="#">fc-03</a> , <a href="#">hc-89</a> , <a href="#">ky-024</a> , <a href="#">modul</a>
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• <a href="#">PT100 / PT1000 sensors</a>	2026/04/23 21:52	<a href="#">rtd</a> , <a href="#">pt100</a> , <a href="#">pt1000</a> , <a href="#">sensor</a> , <a href="#">temperature</a>

- [Radar Module RD-xx](#) 2026/04/23  
21:52 [radar](#), [s3km1110](#), [fmcw](#), [rd-03](#), [k-band](#), [24 ghz](#), [sensor](#), [distance](#), [micro-movements](#)

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