

lamaPLC project: Arduino - Vibration sensors

A vibration sensor is a device that detects mechanical oscillations and transforms them into electrical signals to measure displacement, velocity, or acceleration. They are vital for predictive maintenance, enabling teams to identify machine issues such as misalignment or bearing wear before a failure becomes catastrophic.



Common Types of Vibration Sensors

Selecting a sensor depends on the frequency range and whether your measurement target is displacement (position), velocity (speed), or acceleration.

| Sensor Type | Best For | Typical Use Case | Key Benefit |
|----------------------------------|---------------------------|--|--|
| Piezoelectric | High frequencies (>1 kHz) | Bearing monitoring, gearboxes, turbines | Extremely robust, wide frequency range |
| MEMS (Capacitive) | Low frequencies (0-1 kHz) | Imbalance, misalignment, looseness | Low cost, low power, long battery life |
| Eddy-Current | Shaft displacement | Non-contact monitoring of rotating shafts | Measures distance without physical contact |
| Velocity (Electrodynamic) | Machinery protection | Heavy industrial machines, pumps, fans | Self-powered and less prone to overload |
| Laser Displacement | Delicate/Hot surfaces | Precision measurement in clean or harsh environments | High precision, non-contact measurement |

Key Applications

- **Industrial Health Monitoring:** Used on pumps, motors, and fans to detect early signs of wear and prevent downtime.
- **Structural Safety:** Installed on bridges, dams, and buildings to monitor seismic performance and structural health.
- **Security & Alarms:** Detects forced entry on doors or windows (e.g., car alarms or smart home sensors).
- **Quality Control:** Automotive and aerospace companies test finished products against vibration tolerance benchmarks



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LDTM-028K



The **LDTM-028K** is a piezoelectric film vibration sensor.

It specifically features a cantilever beam design with an integrated mass (*the “M” in the name*) to increase its sensitivity, especially at lower frequencies.

Key Characteristics

- **Technology:** It employs a flexible **PVDF** (*Polyvinylidene Fluoride*) polymer film that is 28 μm thick.
- **Operating Principle:** When the film is bent or vibrates, it produces a high voltage output proportional to the amount of strain.
- **Dual Function:**
 - **Vibration Sensor:** Functions as an accelerometer when its contacts support it, and it is free to vibrate.
 - **Flexible Switch:** Functions as a switch that produces sufficient voltage to directly activate MOSFET or CMOS circuits when pressed by direct contact.
- **Key Benefit:** The additional mass decreases the resonant frequency, increasing sensitivity to low-frequency movements and strong shocks.

Technical Specifications

- **Sensitivity:** Approximately (200 mV/g at resonance).
- **Frequency Range:** Typically 0.1 Hz to 180 Hz.
- **Temperature Range:** 0°C to 85°C.

Wiring the Standalone Sensor (Raw Element)

The standalone LDTM-028K features only two crimped contacts. Since piezoelectric elements can produce very high voltage spikes (AC), they need a dedicated circuit to protect your microcontroller and ensure the signal remains stable.

Parallel Resistor: Attach a 1 M Ω resistor across the sensor's two pins. It functions as a pull-down resistor, helping to dissipate static charge.

Microcontroller Connection

- Connect one pin to GND.
- Connect the other pin to an Analogue Input pin (e.g., A0).

Protection (optional but recommended): To prevent voltage spikes from damaging the pins, some designers install a Schottky diode or a Zener diode across the terminals to clamp the voltage to the supply level.

Wiring

Communication topics on lamaPLC

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| • lamaPLC Communication: GPS | 2024/11/15 20:15 | communication , satellite , navigation , gps , ocx , cdma , glonass , beidou , galileo , qzss , uart , arduino |
| • lamaPLC Communication: IEC 61850 basic | 2025/09/23 21:03 | 1-wire , communication , bus , xml , iec 61850 , iec , ethernet , scl , goose , ied |

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- [lamaPLC Communication: IoT](#) 2025/05/31 22:50 [communication, bus, knx, knx tp, knx pl, knx rf, knx ip, eib, ehs, batibus, ethernet, ets](#)
[communication, bus, lora, lorawan, loramesh, mesh, ism, the things network, ttn, aloha, beaconing, csma, csma-ca, mac, adaptive data rate, adr, spreading factor, sf, transmission power, eu863, eu863-870, eu433, us902-928, au915-928, as923, in865-867, cn433, cn470, cn779, cn920, semtech, sx1261, sx1262, sx1276, sx1272, sx1278, encoding rate, er, time on air, toa, iot, netid, listen before talk, lbt](#)
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| • lamaPLC Communication: SPI | 2024/11/15 21:58 | bus, communication, spi, basic, arduino, ssi, sdi, miso, sdo |
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| • lamaPLC communication: Thread | 2024/11/15 22:07 | bus, communication, matter, thread, matter over thread, zigbee, aes, ipv6, iot, 6lowpan, ethernet, wifi |
| • lamaPLC Communication: UART / USART basic | 2025/02/11 20:21 | bus, communication, uart, rs-232, rs-422, rs-485 |
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| • lamaPLC Communication: Wi-Fi | 2024/11/16 18:46 | communication, iot, internet, wi-fi, wifi, ieee 802.11 |
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| • lamaPLC Communication: Z-Wave | 2024/11/17 21:25 | communication, ethernet, bus, ip, z-wave, ism |
| • lamaPLC Communication: Zigbee | 2024/11/17 21:43 | communication, ethernet, bus, ip, zigbee, wpan, bluetooth, wi-fi, ism, ieee 802.15.4, zdo, zigbee pro, zc, zr, zed, smart energy, homegrid, homeplug, powerline, ipso, sunspec, 6lowpan, ipv6, rf4ce |
| • LamaPLC: AHT10 Modul | 2026/03/21 19:20 | communication, i2c, temperature, humidity, sensor, aht, aht 10, modul |
| • lamaPLC: AI-Thinker LoRA products | 2026/03/05 15:40 | ai-thinker, lora manufacturer, communication, lora, modul, ra-01, ra-02, spi, arduino |
| • LamaPLC: APDS - Avago ALS and proximity detection sensors with I ² C communication | 2026/02/14 22:24 | avago, apds-9900, apds-9930, apds-9960, als, proximity, detection, gesture recognition, gesture, i2c, communication, sensor, arduino, code |
| • lamaPLC: AS5600 Magnetic Induction Angle Measurement Sensor Module | 2026/03/28 22:50 | communication, i2c, as5600, as-5600, magnetic, induction, angle, sensor |

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| <ul style="list-style-type: none"> • LamaPLC: BMP/BME Bosch Temperature/Humidity/Pressure sensors with I²C communication | 2026/02/15 20:40 | bme280 , bme680 , bmp180 , bmp280 , hw-611 , hw611 , bosch , temperature , humidity , pressure , sensor , arduino , i2c , communication , cjmcu |
| <ul style="list-style-type: none"> • lamaPLC: CJMCU-164; SN74HC164D 8-bit Shift Register Module | 2026/02/14 22:48 | cjmcu-164 , sn74hc164d , 8-bit shift register , communication , 7-segment , cjmcu , arduino |
| <ul style="list-style-type: none"> • LamaPLC: CJMCU-219/INA-219 breakout board/IC with I²C communication | 2026/02/14 23:37 | cjmcu-219 , ina-219 , ina219 , breakout board , i2c , communication , sensor , voltage , current , arduino , code , cjmcu |
| <ul style="list-style-type: none"> • LamaPLC: CJMCU-3216 / AP-3216 integrated digital ambient light and proximity sensor module/IC with I²C communication | 2026/02/14 22:40 | cjmcu-3216 , cjmcu , ap-3216 , ap3216 , ambient light , proximity , sensor , arduino , code , i2c , communication |
| <ul style="list-style-type: none"> • LamaPLC: CJMCU-3901/PMW-3901 compact optical flow sensor module/IC by PixArt with SPI communication | 2026/02/14 22:39 | cjmcu-3901 , cjmcu , pmw3901 , pmw-3901 , optical flow , sensor , pixart , spi , communication , arduino , code , pmw3901mb-txqt |
| <ul style="list-style-type: none"> • LamaPLC: CJMCU-6701: Biosensor for measuring Galvanic Skin Response (GSR) with SPI communication | 2026/02/14 23:39 | cjmcu , cjmcu-6701 , acs758 , acs-758 , galvanic skin response , gsr , electrodermal activity , eda , spi , communication , arduino , code , sensor , healthcare |
| <ul style="list-style-type: none"> • LamaPLC: DPS Infineon Temperature/Pressure sensors with I2C communication | 2026/02/14 18:11 | dps310 , infineon , temperature , pressure , sensor , arduino , i2c , communication , code |
| <ul style="list-style-type: none"> • lamaPLC: DS18B20 1-Wire Digital Thermometer | 2026/02/15 20:44 | ds18b20 , sensor , 1-wire , communication , arduino , thermometer , parasitic mode |
| <ul style="list-style-type: none"> • lamaPLC: Ebyte LoRA products | 2026/03/05 15:20 | ebyte , lora manufacturer , communication , lora , modul |
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| <ul style="list-style-type: none"> • lamaPLC: ESP32 / ESP8266 | 2025/11/21 23:07 | esp8266 , esp32 , esp32-c2 , esp32-c3 , esp32-c5 , esp32-c6 , esp32-c61 , esp32-h2 , esp32-s2 , esp32-s3 , esp32-p4 , espressif systems , communication , ethernet , ip , wi-fi , thread , zigbee , matter , homekit , bluetooth , mqtt , adc , spi , uart , i2c , i2s , rmt , pwm , usb , usb otg , twai |
| <ul style="list-style-type: none"> • LamaPLC: Gas sensors | 2023/07/01 15:29 | 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 |

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| • LamaPLC: GY-9250 MPU-9250/6500 9-axis Attitude Sensor Board | 2026/02/14 22:45 | ak8963, gy-9250, mpu-9250, 9-axis, motion detection, magnetometer, communication, i c, i2c, spi |
| • LamaPLC: HDC Texas Instruments Temperature/humidity sensors with I ² C communication | 2026/02/14 22:09 | sht21, htu21, si7021, gy-21, gy-213v, hdc1080, gy-213v-hdc1080, cjmcu, cjmcu-1080, texas instruments, temperature, humidity, sensor, i2c, communication, arduino, code |
| • LamaPLC: HTU TE Connectivity temperature/humidity sensors with I ² C communication | 2026/02/14 21:54 | 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: HX711 24-bit analog-to-digital converter (ADC) | 2026/02/15 23:59 | hx711, hx-711, analog-to-digital, adc, converter, load cell, wheatstone bridge, weight, sensor, communication, arduino, code |
| • lamaPLC: INA modules with Arduino libraries | 2026/03/28 18:02 | 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: INA226 - current/voltage/power monitor with I ² C communication | 2026/02/14 23:58 | i2c, i c, communication, arduino, energy, power, current, monitor, sensor, ina226, ina219, ina |
| • lamaPlc: Industrial Ethernet (IE) Basic | 2024/11/15 20:17 | communication, bus, ethernet, industrial ethernet, ie, ethercat, ethernet ip, profinet, powerlink, sercos, iii, cc-link, modbus tcp, ieee, rstp, stp |
| • lamaPLC: LCD 1602/2004 with I ² C communication | 2026/02/14 17:27 | communication, i2c, display, lcd, 1602, 2004, hd44780, pcf8574, pcf8574t, pcf8574at, arduino |
| • lamaPLC: LTC3588 - Nanopower energy harvesting power supply IC | 2026/02/14 23:35 | communication, arduino, sensor, energy harvesting, energy, ambient power |
| • LamaPLC: MAX30100/MAX30102 Heart Rate Click Sensor Module | 2026/02/14 23:38 | max30102, max30100, heart rate click, sensor, communication, i2c, arduino, code |
| • lamaPLC: MCP23017 / MCP23S17 16-Bit I/O Expander with Serial Interface I ² C / SPI | 2026/02/14 22:52 | communication, i2c, mcp23017, mcp23s17, spi, i o expander, serial, cjmcu-2317, cjmcu |
| • LamaPLC: MH-Z19 series of NDIR CO ₂ sensors | 2026/02/15 20:20 | mh-z19, mh-z19d, mh-z19c, mh-z19b, mh-z19e, ndir, co2, sensor, winsen, uart, pwm, communication, non-dispersive infrared, infrared, ir, temperature, arduino, code, tasmota |
| • LamaPLC: Pixart PAJ7620U2 Gesture recognition sensors/module with I ² C communication | 2026/02/14 22:23 | paj7620u2, gy-paj7620, pixart, gesture recognition, i2c, communication, sensor, arduino, code |
| • lamaPlc: Profinet | 2024/11/15 20:39 | communication, bus, profinet, mrp, rstp, gsddl, xml, profibus, ethernet, tcp |
| • lamaPLC: PTA8C04 4-channel PT100 Modbus Modul | 2026/02/14 17:42 | pta8c04, sensor, modbus, rtu, rs-485, communication, platine, um72 |

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| • LamaPLC: S7-1500 and Metrawatt EM2389 Modbus TCP communication | 2024/11/18 17:55 | simatic , s7 , modbus , communication , metrawatt , em2389 , source code , scl , mid |
| • LamaPLC: S7-1500 and Sicam Q200 Modbus TCP communication | 2023/06/24 22:42 | simatic , s7 , modbus , tia portal , communication , sicam , q200 , sicam q200 , source code , scl , class a |
| • lamaPLC: S7-1500 and UICPAL Temp.humi.sensor Modbus TCP communication | 2023/06/19 21:24 | bus , communication , s7 , simatic , s7 1500 , s7 1200 , scl , uicpal , temperature , humidity , modbus , example , download , tia portal |
| • LamaPLC: SGP Sensirion TVOC/VOC sensors with I²C communication | 2026/02/15 20:27 | sgp30 , sgp40 , sgp41 , sensirion , gas-sensor , i2c , communication , sensor , arduino , code , eco2 , voc , tvoc , indoor air quality , iaq , nox , hydrogen |
| • LamaPLC: SHT Sensirion Temperature/humidity sensor with I²C communication | 2026/02/15 20:29 | sht20 , sht21 , sht25 , sht30 , sht31 , sht35 , sht40 , gy21 , temperature , humidity , i2c , communication , sensor , arduino , code |
| • lamaPLC: TCA9548A (HW617); Low-Voltage 8-Channel I²C Switch Module | 2026/02/14 22:51 | tca9548a , hw617 , i2c , switch , communication , expansion board , arduino |
| • LamaPLC: Texas Instruments ADCs: Delta-sigma multi-channel Analog Converters with SPI communication | 2026/02/15 22:34 | ads111x , ads12xx , delta-sigma , converter , texas instruments , adc , spi , communication , sensor , arduino , code , ads1110 , ads1112 , ads1113 , ads1114 , ads1115 , ads1118 , ads1119 , ads1220 , ads1232 , ads1234 , ads1256 , ads1261 , ads1263 , multi channel |
| • LamaPLC: TOFnnnC STMicroelectronics Time-of-Flight (ToF) sensors with I²C communication | 2026/02/14 22:22 | tof050c , vl6180 , tof200c , vl53l0x , tof400c , vl53l1x , stmicroelectronics , time-of-flight , tof , i2c , communication , sensor , arduino , code |
| • lamaPLC: TWAI basics | 2025/11/20 21:41 | bus , communication , as-i , basic , can , twai , espressif , esp32 |
| • LamaPLC: UICPAL Temp.humi.sensor | 2023/06/24 22:43 | simatic , s7 , modbus , communication , temperature , humidity , sensor |
| • LamaPLC: VL53Lnn STMicroelectronics time-of-flight (ToF) laser-ranging sensors with I²C communication | 2026/02/14 22:21 | vl53l0x , vl53l1x , vl53l0 1xv2 , gy-530 , time-of-flight , tof , laser-ranging , i2c , communication , sensor , arduino , code |
| • LamaPLC: VL6180X STMicroelectronics Time-of-Flight (ToF) sensor with I²C communication | 2026/02/14 22:22 | vl6180x , stmicroelectronics , time-of-flight , tof , i2c , communication , sensor , arduino , code |
| • lamaPLC: Waveshare LoRA products | 2026/03/05 15:20 | waveshare , lora manufacturer , communication , lora , modul , usb-to-lora-xf02 , core 1262 , 1262 , spi , arduino , rp2040-lora , rp2040 |
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| • lamaPLC: YR-3180 - Weight sensor module with UART or Modbus communication | 2026/02/14 23:00 | communication , modbus , rtu , sensor , weight , yr-3180 , hx710b , arduino , ttl , rs-485 |

- [Magnetic angle sensors](#) 2026/03/05 20:19 [magnetic angle sensor, magnetic flux, sensor, spi, i2c, pwm, communication, modul, as5047p, as5600, mt6701, mt6816, mt6835, tle5012b, amr, gmr, tmr, anisotropic magnetoresistive](#)
- [NT18B07: 7 Kanal RS485 Temperatur Sensor with Modbus RTU](#) 2026/02/14 17:49 [nt18b07, sensor, modbus, rtu, rs-485, communication, platine](#)
- [Simatic Modbus S7 error- and statuscodes](#) 2025/11/13 22:59 [communication, bus, modbus, error, modbus error code, 7000, 7001, 7002, 7003, 7004, 7005, 7006, 80a1, simatic, s7, siemens, tia](#)
- [Waveshare](#) 2023/06/17 19:43 [waveshare, converter, modbus, modbus rtu, modbus tcp, communication](#)
- [XTM35SC current / voltage meter](#) 2023/06/01 11:45 [xtm35sc, modbus, modbus rtu, measuring, power, communication, current meter, voltmeter](#)

[BMP280, AHT20, temperature, humidity, pressure, sensor, arduino, oled, SH1106, arduino code](#)

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