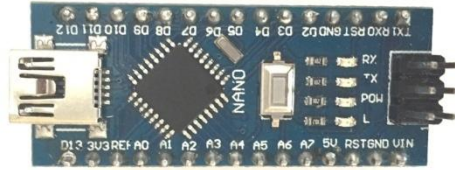
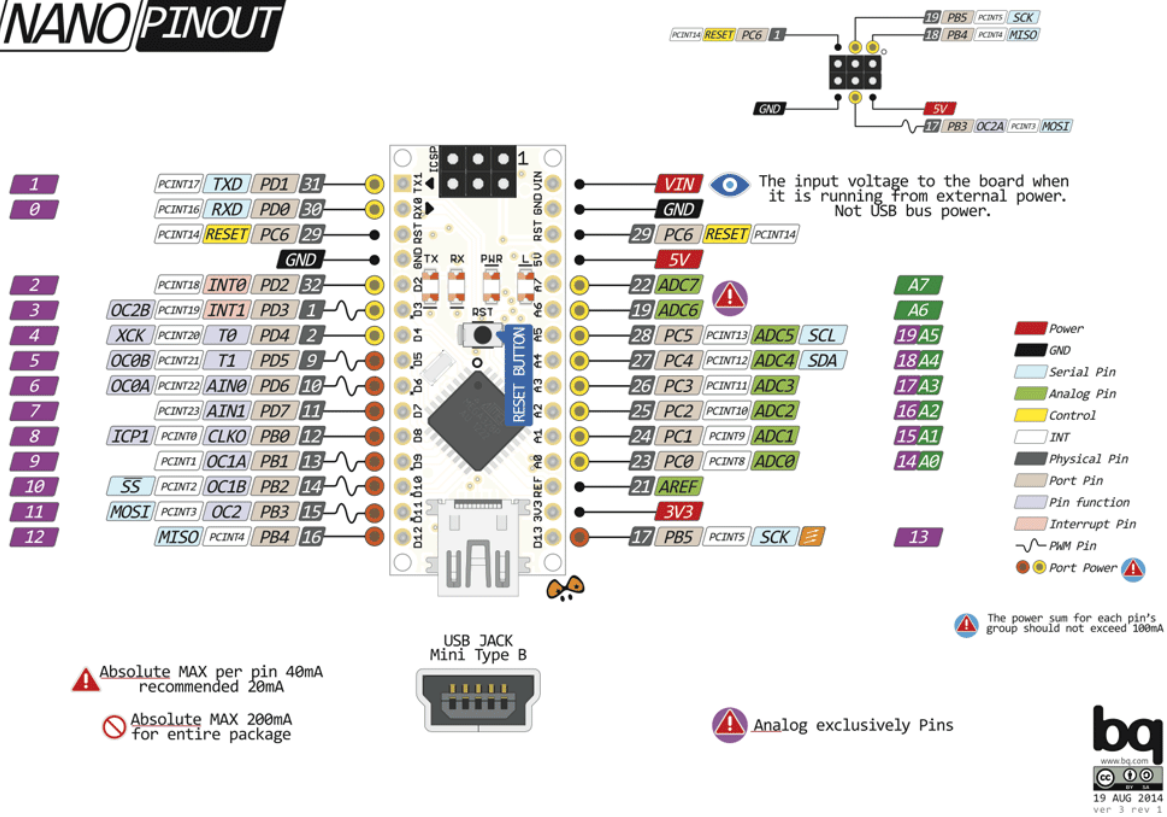


LAMPIRAN

Datasheet Arduino Nano



NANO PINOUT



Arduino Nano Pin Configuration

Pin Category	Pin Name	Details
Power	Vin, 3.3V, 5V, GND	<p>Vin: Input voltage to Arduino when using an external power source (not USB bus power).</p> <p>5V: Regulated power supply used to power microcontroller and other components.</p>

		<p>components on the board.</p> <p>3.3V: 3.3V supply generated by on-board voltage regulator. Max current draw is 50mA.</p> <p>GND: Ground pins.</p>
Reset	Reset	Resets the microcontroller.
Analog Pins	A0 – A7	Used to measure analog voltage in the range of 0-5V
Input/Output Pins	Digital Pins D0 - D13	Can be used as input or output pins. 0V (low) and 5V (high)
Serial	Rx, Tx	Used to receive and transmit TTL serial data.
External Interrupts	2, 3	To trigger an interrupt.
PWM	3, 5, 6, 9, 11	Provides 8-bit PWM output.
SPI	10 (SS), 11 (MOSI), 12 (MISO) and 13 (SCK)	Used for SPI communication.
Inbuilt LED	13	To turn on the inbuilt LED.
IIC	A4 (SDA), A5 (SCA)	Used for TWI communication.
AREF	AREF	To provide reference voltage for input voltage.

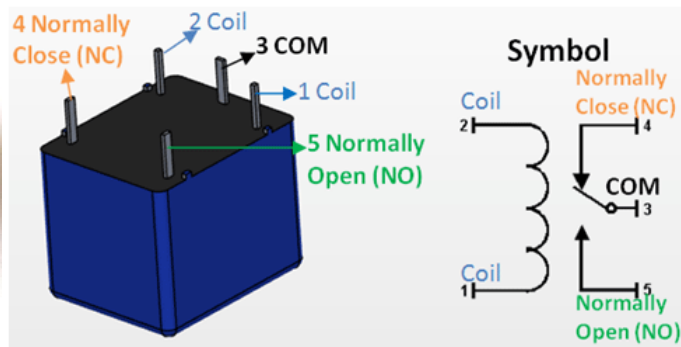
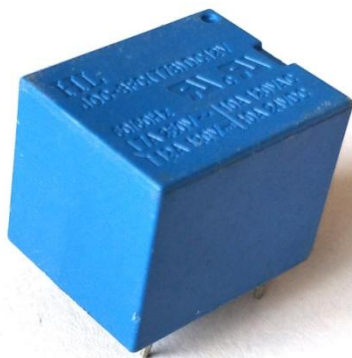
Arduino Nano Technical Specifications

Microcontroller	ATmega328P – 8 bit AVR family microcontroller
Operating Voltage	5V

Recommended Input Voltage for Vin pin	7-12V
Analog Input Pins	6 (A0 – A5)
Digital I/O Pins	14 (Out of which 6 provide PWM output)
DC Current on I/O Pins	40 mA
DC Current on 3.3V Pin	50 mA
Flash Memory	32 KB (2 KB is used for Bootloader)
SRAM	2 KB
EEPROM	1 KB
Frequency (Clock Speed)	16 MHz
Communication	IIC, SPI, USART



Modul Relay



Relay Pin Configuration

Pin Number	Pin Name	Description
1	Coil End 1	Used to trigger(On/Off) the Relay, Normally one end is connected to 5V and the other end to ground
2	Coil End 2	Used to trigger(On/Off) the Relay, Normally one end is connected to 5V and the other end to ground
3	Common (COM)	Common is connected to one End of the Load that is to be controlled
4	Normally Close (NC)	The other end of the load is either connected to NO or NC. If connected to NC the load remains connected before trigger
5	Normally Open (NO)	The other end of the load is either connected to NO or NC. If connected to NO the load remains disconnected before trigger

Features of 5-Pin 5V Relay

- Trigger Voltage (Voltage across coil) : 5V DC
- Trigger Current (Nominal current) : 70mA
- Maximum AC load current: 10A @ 250/125V AC
- Maximum DC load current: 10A @ 30/28V DC
- Compact 5-pin configuration with plastic moulding
- Operating time: 10msec Release time: 5msec
- Maximum switching: 300 operating/minute (mechanically)

BUZZER 220V AC

Model:HRB-N80



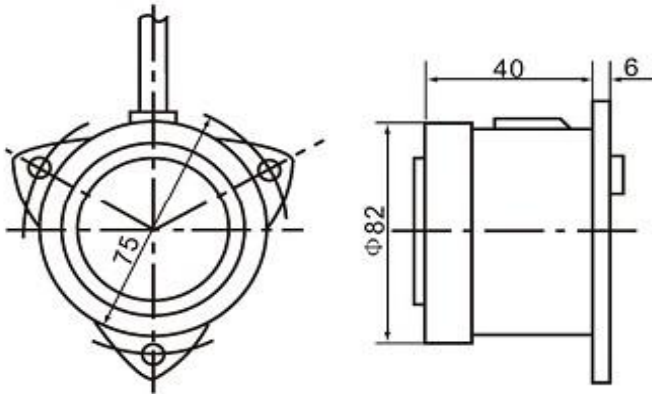
Features:

- The most popular electronic buzzer , suit for the industry field.
- High quality, and last working for a long time, no Electromagnetic Interference.
- Long life, and nice tone.
- Function: continual alarm and intermittent alarm optional.

Technical Data:

Model	Voltage	Current(A)	Frequency(Hz)	decibel	Size	Weight
HRB-N80	AC220V	30mA	50	80dB	8.4x8.2x4.9cm	97g

Shape:



Made in China

EKT
Electronics Katrangi Trading

www.ekt2.com

Product data sheet

Characteristics

XB4BA4322

red flush complete pushbutton Ø22 spring return 1NC "O"

Product availability: Stock - Normally stocked in distribution facility



Main

Range of product	Harmony XB4
Product or component type	Complete push-button
Device short name	XB4
Bezel material	Chromium plated metal
Fixing collar material	Zamak
Mounting diameter	0.87 in (22 mm)
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	Spring return
Operator profile	Red flush, white O
Head type	Standard
Contacts type and composition	1 NC
Contact operation	Slow-break
Connections - terminals	Screw clamp terminals: $\leq 2 \times 1.5 \text{ mm}^2$ with cable end conforming to ENIEC 60947-1 Screw clamp terminals: $1 \times 0.22 \dots 2 \times 2.5 \text{ mm}^2$ without cable end conforming to ENIEC 60947-1

Complementary

Height	1.85 in (47 mm)
Width	1.18 in (30 mm)
Depth	2.05 in (52 mm)
Terminals description ISO n°1	(21-22)NC
Product weight	0.18 lb(US) (0.08 kg)
Resistance to high pressure washer	1015.26 psi (7000000 Pa) at 131 °F (55 °C), distance: 0.1 m
Contacts usage	Standard contacts
Positive opening	With positive opening conforming to EN/IEC 60947-5-1 appendix K
Operating travel	0.06 in (1.5 mm) (NC changing electrical state) 0.17 in (4.3 mm) (total travel)
Operating force	3.5 N (NC changing electrical state)
Mechanical durability	10000000 cycles
Tightening torque	7.08...10.62 lbf.in (0.8...1.2 N.m) conforming to EN 60947-1
Shape of screw head	Cross head compatible with Philips no 1 screwdriver Cross head compatible with pozidriv No 1 screwdriver Slotted head compatible with flat Ø 4 mm screwdriver Slotted head compatible with flat Ø 5.5 mm screwdriver
Contacts material	Silver alloy (Ag/Ni)
Short-circuit protection	10 A cartridge fuse type gG conforming to ENIEC 60947-5-1
[I _{th}] conventional free air thermal current	10 A conforming to EN/IEC 60947-5-1
[U _i] rated insulation voltage	600 V (degree of pollution: 3) conforming to ENIEC 60947-1
[U _{imp}] rated impulse withstand voltage	6 kV conforming to ENIEC 60947-1
[I _e] rated operational current	3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1 0.1 A at 600 V, DC-13, Q600 conforming to ENIEC 60947-5-1 0.27 A at 250 V, DC-13, Q600 conforming to ENIEC 60947-5-1 0.55 A at 125 V, DC-13, Q600 conforming to ENIEC 60947-5-1 1.2 A at 600 V, AC-15, A600 conforming to ENIEC 60947-5-1

Aug 17, 2019

Life is On 