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Wire Supply Weekend Devices SwitchEs Diodstransx Distributors Audio and Radio Meters Sensors Logic Gate Next page: Electricity and Electron Also see: Circuit circuit symbols in diagrams Chain symbols are used in circuit circuit diagrams showing how the chain is tied together. The actual location of the components is usually very different from the chain scheme. To build a diagram, you need another diagram showing the location of the parts on the board (for time schemes), stripboard, or circuit board. The circuit circuit connects the components and easily transmits the current from one part of the chain to another. Wires connected by a 'blob' should be drawn where the wires are connected (connected), but sometimes omitted. The wires connected at the crossroads should be slightly shaken to form two T-connections, as shown on the right. Wires that are not connected in complex diagrams often have to draw wires that intersect even if they are not connected. A simple crossing on the left is correct, but can be misinterpreted as joining where the 'blob' has been forgotten. The symbol of the bridge on the right leaves no doubt it supplies electrical energy. The big line is positive (me). One cell is often called a battery, but strictly speaking, the battery is two or more cells combined. The battery supplies electrical energy. Battery is not a single cell. The big line is positive (me). A solar panel converts light into electrical energy. The big line is positive (me). DC supplies electricity. DC - Direct current, always flowing in one direction. AC supplies electrical energy. A FLASH current, constantly changing direction. The safety fuse of the device that will kick (melt) if the current passing through it exceeds the specified value. Transformer Two coils of wire are connected by an iron core. Transformers are used to increase (increase) and reduce (reduce) AC voltage. Energy is transmitted between the coils by the magnetic field in the nucleus, there is no electrical connection between the coils. Earth (Earth) Connection with the Earth. For some electronic circuits, this symbol is used for 0V (zero volt) power, but for the electricity network and some radio networks it really means earth. It is also known as the land. A converter that converts electrical energy into light. This symbol is used for a lamp that provides lighting, such as car headlights or torchlights. A lamp (indicator) converter that converts electrical energy into light. This symbol is used for a lamp that is an indicator, such as a warning light on the car's dashboard. A heater converter that converts electrical energy into heat. A converter engine that converts electrical energy into kinetic energy (movement). that converts electrical energy into sound. A converter that converts electric electric Sound. The coil is a wire that creates a magnetic field when the current passes through it. Inside the coil there may be an iron core. It can be used as a converter converting electrical energy into mechanical energy by pulling on something magnetically. The click switch allows the current to flow only when the button is pressed. This is the switch used to operate the doorbell. Push-to-break Switch This type of click switch usually closes, it is only open when the button is pressed. SPST, SPST switch - one pole, single throw. Current threads only when the switch is in a closed position. SPDT, two-way SPDT switch and one pole, double throw. The two-part switch directs the current flow to one of the two routes, depending on its position. Some SPDT switches have a central position and are described as on-the-go. DPST - Double pole, single throw. A double switch, which is often used to switch electricity because it can isolate both live and neutral connections. DPDT - Double pole, double throw. This switch can be connected as a reverse switch for the engine. Some DPDT switches have a central position. An electrically controlled switch, such as a 9V battery chain connected to a coil, can switch the AC network circuit. The rectangle represents the coil. NO - Usually open, COM - General, NC - Usually closed. Not enough money for your electronics projects? Sell your old iPhone, iPad, MacBook or other Apple device. macback.co.uk A resistor restricts the flow of charge. Use involves limiting the current passing through the LED, and slowly charging the capacitor in the synchronization circuit. Some publications use an old resistor symbol. the variable resistor A rheostat has 2 contacts and is commonly used to control the tone. Use involves controlling the brightness of the lamp or the speed of the engine and changing the speed of the charge flow into the capacitor in the synchronization circuit. Potentiometer variable resistor potentiometer has 3 contacts and is commonly used to control voltage. It can be used as a converter transforming position (control spindle angle) to an electrical signal. Pre-installed variable resistor A preinstalled works with a small screwdriver or similar tool. It is designed to be customized when the diagram is done and then left without further adjustment. Presets are cheaper than standard variable resistors, so they are sometimes used in projects to reduce costs. The capacitor keeps an electric charge. It can be used with a resistor in a synchronization scheme, to smooth the power supply (it provides a charge tank) and can be as a filter (blocking DC signals, but passing AC signals). Non-polarized capacitors usually have small values of less than 1 kF. The capacitor, the polarized capacitor, keeps an electric charge. Polarized capacitors must be connected in the correct way. They tend to have big values, 1 kF or more. See above Uses. Variable capacitor Variable capacitor is used in the radiotuner. The variable capacitor trimmer This type of variable capacitor is designed to be set when the circuit is done and then left without further adjustment. A device that allows the flow to flow only in one direction. A light-emitting diode converter that converts electrical energy into light. Usually abbreviated LED. The zener diode dzener diode can be used to maintain a fixed voltage. Photodiode Light-sensitive diode. The transistor amplifies the current and can be used with other components to make an amplifier or switch chain. This symbol is for bipolar transistor connections (BJT), the type that you are most likely to use in the first place. The transistor amplifies the current and can be used with other components to make an amplifier or switch chain. This symbol is for bipolar transistor connections (BJT), the type that you are most likely to use in the first place. A light-sensitive transistor. A converter that converts sound into electrical energy. A converter that converts electrical energy into sound. A converter that converts electrical energy into sound. A converter that converts electrical energy into sound. Amplifier scheme with one entrance. It's actually a block diagram symbol because it's a diagram, not just one component. Device to receive or transmit radio signals. It is also known as the antenna. Measures the tension. The correct name for voltage is a potential difference, but the voltage is more widely used. The ammeter measures the current. Galvanometer A very sensitive meter is used to measure tiny currents, usually 1mA or less. Ohmmeter Measures Resistance. Most of the multi-metres have an ometer installation. Oscilloscope Oscilloscope is used to display the shape of electrical signals - showing how they change over time. It can be used to measure voltage and periods of time. A converter that converts brightness (light) into resistance (electric property). LDR - Light-dependent resistor Thermistor Transformer, which converts temperature (heat) into resistance (electric property). Logical gates process signals that are true (1, high, Vs, on) or false (0, low, 0V, off). For more information, please see the page at the logical gate. There are two sets of symbols: traditional and IEC (International Electrical Commission). NOT the gate can only have one entrance. '0' on the way out means No. The exit of the no gate is the reverse (opposite) input, so the exit is true when the entrance is false. The GATE is also called an inverter. Traditional IEC And gates can two or more entrances. Exit And Gate is correct when all its entrances are correct. Traditional IEC A NAND gates can have two or more entrances. '0' on the way out means no, showing that it's not a gate. The nand gate exit is correct if all its entrances are correct. Traditional IEC OR gates may have two or inputs. The exit or gate is true when at least one of its entrances is true. Traditional IEC A NOR gates can have two or more entrances. '0' on the way out means not showing that it is not or gate. The exit of the NOR gate is correct when none of its entrances is true. The traditional IEC EX-OR gates can only have two inputs. The exit of the EX-OR gate is correct when its entrances are different (one true, one false). The traditional IEC EX-NOR gates can only have two inputs. '0' on the way out means no, showing that it is not an EX-OR gate. The exit of the EX-NOR gate is correct when its entrances are the same (both true and both false). Traditional IEC This website does not collect personal information. If you e-mail your email address and any personal information is only used to respond to your message, it will not be shared with anyone else. This site displays ads, if you click on these advertiser may know that you came from this site and I can be rewarded. No personal information is shared with advertisers. 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