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Customize Electronics Circuits for Relays to Meet out Specific Requirements by
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Electrically operated switch is known as relay. They require electromagnet for their operation. It starts working when a current is supplied to it. Normally electronic devices like switches use relay circuit for their working and the varied relays operate at different voltages. When a circuit is being built by you all that needs is the voltage for triggering it. The coil forms the most important part of relay. Magnetic field is created just by a small amount of current that flows through the coil whose function is pulling the switch on or off. When current is allowed to flow through the contact at one side, then the other side contact start working as allowed by the coil. The basic function of relay is turning on the second current. The activation of relay electronics circuits depends on 1st circuit as a result of which the 2nd circuit turns on.

The relay is activated only if LDR is dark which serves as a automatic animal fielder's part. If at night animal was fed then the relay would get activated, the relay's other side is connected to the second circuit that helps in releasing of food into a dish.

Different types of relay circuits are as follows:-

Latching relay- It is known as Keep, Stay or Impulse relay. It comprises of two relaxed states. The relay is in last state when current is not flowing through it.

Reed relay- It is basically a reed switch which is enclosed in a solenoid. A switch comprises of contacts that are located in glass tube filled with inert gas that gives protection against atmospheric corrosion. Magnetic material is required to make the contacts. In comparison to larger relays, reed relay switch works faster with a requirement of little power which is supplied from control circuit.

Mercury-wetted - It is a type of reed relay in which mercury is used to wet the contacts. Low-voltage signals are basically used in which contact resistance in association with voltage drop is reduced.

Polarized - In polarized relay in order to increase sensitivity, poles of permanent magnet are used to accommodate armature inside it.

Contactor - It is known as heavy - duty relay in which electric motors are used for switching. It also performs function of lightning loads. However, contractor electronics circuits are not known as relays.

Solid-state - Its function is similar to electromagnetic relay. It provides long-term liability as its components are not movable.

Selection of relays depends upon the nature of application. In some cases, these can be designed and clubbed up to customize a relay circuit as per specific requirements.

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