Intermediate switch connection pdf

It is a very useful switch with four connectors and is commonly used when we need to control the light point (or other electrical devices such as fan, alarm, middle of stairs, etc.) from three different locations. Good to know: Intermediate Switch is also known as a 4-way switch. The intermediate switch has four connectors to alter the flow of the electric current from one circuit to another (see Figure 1 & 2) and is also known as a three-way switch. There are two ways it can switch on and off in power supply. The four connectors for the intermediate switch structure and its operation are shown in the figure below, where 4 points of contact are known as A, B, C & D. When the clutch knob is at the top, the connectors on the intermediate switch connect to connector A to connector C and to connector B as shown in Fig. 1a. On the other hand, when the knob is down, connection A is then connected to terminal B and C-D. Figure 1: What is the intermediate switch & how does it work ?i.e. when the switch knob is UP, the vertical contacts are connected as shown in AC and BD Figure 1a). And when the knob is DOWN, the horizontal contacts are connected (i.e. AB and CD as shown in Figure 1b). Figure 2 shows the basic structure and work of the space switch. The construction and work of the Intermediate SwitcIntermediate switch is mostly used in halls, large rooms or godowns, where different lamps are needed for an ON/OFF lamp from different locations. In addition, a multi-storey building, lamp on the ground floor or parking spacer can be controlled or ON/OFF from any floor using an intermediate switch circuit. Figure 3 controls the lamp from three different locations with two, 2-way switches and one intermediate switch. Below is the same diagram (Fig. 4) that allows you to control the light point (lamp) from three different locations using two two-part switches and one intermediate switch with different symbols. Related post: How to connect a ceiling fan? – 5 WaysBelow is a given schem that controls the light point from three different locations using two 2-way switches and an intermediate switch in the middle of the stairs. Stair wiring connection 2 two-part switches and intermediate switchEs Fig. 5 the lamp is controlled from six different locations with two, 2-way switches and four intermediate switches. Key point: You can control the lamp from many different locations by adding intermission, such as in the middle of stairs or in shared apartments (if necessary). Many other electrical devices, such as fans, alarms, machines, etc., can also be controlled from different locations with a switch. Read also: here we have a 3-way switching light circuit (sometimes called a two-way interconnected intermediate). This allows one light to be switched on or off from any switch. This page shows it wired in old cable colours if your house has the new colors you want to go here: 3-way change (new cable colors) This is very coupling circuit, but shall be replaced by an intermediate switch and an additional intermediate switch brought into three wire control cables connecting the two main switches. Figure 1: Three-way switch diagram The circuit consists of a two-part switch at each end (top and bottom switches in Fig. 2) and an intermediate switch in the middle. All three switches are connected by three cores and a ground control cable. Note that the cable connected to the COM connectors is a loop directly through the intermediate switch using the cable connector. Figure 2: Three-way light circuit diagram (old cable colours) All earth wires must be connected to the earth connection in the rear drawers of the switch, and if you use a metal switch, there must be a loop of this earth connection to the connector on the switchboard (see note A in Fig. 2) The four-way switch and much more This circuit can be extended to four , a five-way shift by adding other interconnector connections (connected as shown in Figure 2) to any side of the control cable. Tags: 3-way lighting circuit, 3-way switch, electrical wires, light switching, three-way switch switching, central light switch wiring, intermediate switch, interconnector wires, light cable diagram, lighting circuit, lighting cable diagram here we have a 3-way switching light circuit (sometimes called a dual-path switch with the middle level). This allows one light to be switched on or off from any switch. This page shows it wired in new cable colors if your house has the old colors you want to go here: Three-way connection (old cable colors) This is very similar to a two-way switch circuit, but and an extra interconnector is brought to three wire control cables connecting the two end light switches. Figure 1: Three-way switch diagram The circuit consists of a two-part switch at each end (top and bottom switches in Fig. 2) and an intermediate switch in the middle. All three switches are connected by three cores and a ground control cable. Note that the cable connected to the COM connectors is a loop directly through the intermediate switch using the cable connector. Figure 2: Three-way light connection cable diagram All earth wires must be connected to the earthing connector on the rear drawers of the switch, and if you are using a metal coupling, there must be a loop of this earth connector on the switchboard connector (see note A in Fig. 2) The four-way switch and much more This circuit can be extended to four, five-way replacement by adding other interconnector connections (connected as shown in Figure 2) to any handle cable. Tags: 3-way lighting circuit, 3-way switch, electrical cables, light switching, switching on the three-way switch, central light switch wiring, intermediate switch, interconnector wiring, light cable diagram, lighting circuit, lighting cable diagram The intermediate light switch is used when three or more switches control one light and are used two dual-path light switches to achieve this single gang switch face One gang intermission switch Light switch The central light switch mechanism There are four terminals, usually L1, L1 and L2, L2. In one position, L1 and L2 are combined in pairs. In the second position, the alternative pairs are connected. Identifiers: electric switches, centre-light switch, intermediate switches, light switch The stop switch is used when three or more switches control one light and are operated together with two dual-frequency light switches to achieve this. It's practically two one-gang intermissers on one face plate. Double gang switch face plate Fig. 2: Double gang spacer switch Light switch Mechanism Fig. 3: Medium light switch mechanism Each of the gangs (or switches) in Figure 2 (of which there are two) works like this (Fig. 3): L1, L1 and L2, L2 connectors have four connectors. In one position, L1 and L2 are combined in pairs. In the second position, the alternative pairs are connected. Tags: 2 gang, 2 way, electric switches, Medium light switch, intermediate switch wiring, light switch Use a 3 gang intermediate light switch where three or more switches control one light and are used in combination with two-way light switches to achieve this. It's practically three one-gang intermissers on one face plate. Triple gang switch face Fig. 2: Triple gang intermediate light switch Switch mechanism Fig. 3: Medium light switch mechanism Each of the gangs (or switches) in Figure 2 (of which there are three) works like this (Fig. 3): L1, L1 and L2, L2 connectors have four connections. In one position, L1 and L2 are combined in pairs. In the second position, the alternative pairs are connected. Tags: 3 gangs, electric switches, intermediate switch wires, light switch, triple gang intermission switch The switch is a switch that allows you to control the illumination point in three positions. In order to control this illumination point in three positions, the intermediate switch is switched on with the other two 2-way switches. Application: it can be used to illuminate a room or hall with 3 entrances, it can also be used in long corridors and staircases. We are looking at these links. Below is a picture of the connection. The brown lines shown in the diagram are switching contacts. Switch 2 is a switch. The image below is the configuration of the intermediate switch. The switch marked on the first diagram 1 and 3 is a two-part switch. Click here to know more about two-way squatters. OFF positions We have seen how to switch on the middle switch. One of its applications is in the lighting of stairs. Below is the schematic layout of the lighting on the stairs. Boom Boom Boom. Hopefully, you can now plug in the switch by studying this interesting article with appropriate charts made easy to understand. Still Blog. Thank you for connecting the 1-way switch