



Ambient Electrical Can Offer A Solution When The Safety Switch Keeps Tripping

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Ambient Electrical, based in Bronte, New South Wales, has announced that they are the ones to call when the safety switch keeps tripping and many other electrical problems. Safety switches or residual current devices (RCDs) are intended to detect any imbalance in current due to a fault to earth and automatically result in tripping or disconnecting the power. RCDs are designed to react fast enough in order to prevent an electric shock. More information about safety switches can be found at <https://www.easternsuburbselectrician.net.au/services/safety-switches/>.

Peter Stafford, owner/operator of Ambient Electrical, explains, "These life-saving devices can be easily retrofitted to all electrical installations. Safety Switches can be installed at the switchboard protecting all light and power circuits or anywhere on a power circuit protecting that point and beyond. It is imperative that all homes and businesses be fitted with RCD's as they have significantly reduced the number of injuries and deaths caused by electrocutions."

Peter continues, "We install, repair and test safety switches making sure they meet Australian Standards requirements. We only install quality safety switches manufactured by Hager, NHP and Clipsal."

Reports show that safety switches are important as they protect people from being electrocuted and getting seriously injured from electric shock. They work by quickly breaking an electrical circuit in case there is a fault, similarly to when a person touches a live wire whilst also touching the ground. An electric current of around 30 milliamperes or 0.03 amperes through the human body can potentially cause cardiac arrest or serious injury if it persists for more than a small fraction of a second. RCDs trip or disconnect the wires from the electric power fast enough to prevent serious injury.

It is important to test safety switches to ensure that they are operating at an optimal state. A multifunction tester can be used for this purpose. It works by applying a controlled fault current from live to earth and measuring the operating time of the safety switch. This test can be done right after installation of the device. Thus, homeowners may want to take note of this when they are having their electrical system installed. To avoid unnecessary tripping, only one safety switch should be installed on any single circuit. If the safety switches are already installed, it may be a good idea to have them tested by a professional electrician, such as Ambient Electrical.

For more information, watch this video: <https://youtu.be/mODRnA3RG3Y>.

It is possible that the safety switch may trip even if the residual current flowing is less than its rated residual operating current. This is known as 'nuisance tripping' and it may have a number of causes, such as a current surge or voltage surge, or noise on the installation. It may also be that an appliance connected to the system is causing it to trip, especially those that have heating elements.

One way to check if an appliance is causing the so called 'nuisance tripping' is to disconnect all appliances from the electrical system. This can be done by switching off all of the circuit breakers for the various appliances and circuits that are connected to the tripped safety switch. Then, the safety switch is reset by flipping it back on. Each circuit breaker is then turned on one by one. When the safety switch trips, it is the appliance that is connected to that specific circuit breaker that may be the cause of the trip. If possible, it is recommended to disconnect the appliance from the system. Alternatively, its circuit breaker should be kept in the off position. At this point a call to a professional electrician needs to be made to rectify the problem.

Ambient Electrical has been serving the suburbs and Sydney Metro areas since 2011. Those who are renovating their home or business space, upgrading their electrical installation, or troubleshooting a power outage may want to contact Ambient Electrical. They offer services in design and installation; electrical troubleshooting; shop fit-outs; new homes; renovation and extensions; lighting and power; appliance installation; data and telephony; and inspection and testing.

Those who need more information about the services offered by Ambient Electrical or would like to book an

appointment can visit their website at <https://www.easternsuburbselectrician.net.au>, or contact them by telephone or through email.

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For more information about Ambient Electrical, contact the company here: Ambient Electrical Peter Stafford 0415 684 120 ambientelectrical@hotmail.com Unit 1/58 Brown St Bronte NSW 2024

Ambient Electrical

We take the time to establish clear lines of communication so you can be confident in our ability to get the job done and deliver a service that is uncompromising in function and quality.

Website: <https://www.easternsuburbselectrician.net.au>

Email: ambientelectrical@hotmail.com

Phone: 0415 684 120

