



PHOTOELECTRIC SMOKE DETECTOR

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2015

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MALAYSIA

MARCH 2015

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ACKNOWLEDGEMENTS

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ACKNOWLEDGEMENTS

In the name of Allah, the most Generous and the most Merciful, all praises to Allah, for giving me health, opportunity and passion to complete this final year project. I also take this opportunity to express my profound gratitude and deep regard to Miss Siti Sufiah Binti Abd Wahid for exemplary guidance, monitoring and constant encouragement. I would like to acknowledge with much appreciation the crucial role of the others lecturer and staff for their support and guidance. The blessing, cordial support, valuable information and guidance by them from time to time shall carry me a long way in the journey of life on which I am about to embark. I also acknowledge with a deep sense of reverence, my gratitude towards my parents and all my siblings, who has always supported me morally as well as economically. Lastly, I offer my regard and blessing to my colleagues and all those who supported me in any respect during the completion of the project.

ABSTRACT

This project will be used to detect the smoke if there is a something burning. A **smoke detector** is a device that senses smoke, typically as an indicator of fire. Commercial and residential security devices issue a signal to a fire alarm control panel as part of a fire alarm system, while household detectors, known as **smoke alarms**, generally issue a local audible or visual alarm from the detector itself. Most smoke detectors work either by optical detection (photoelectric) or by physical process (ionization), while others use both detection methods to increase sensitivity to smoke. Sensitive alarms can be used to detect, and thus deter, smoking in areas where it is banned. Smoke detectors in large commercial, industrial, and residential buildings are usually powered by a central fire alarm system, which is powered by the building power with a battery backup. However, in many single-family detached and smaller multiple family housings, a smoke alarm is often powered only by a single disposable battery.