UNIVERSITI TEKNOLOGI MARA

SMARTHOME SYSTEM-HEAT DETECTOR

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INTRODUCTION

1.1 BACKGROUND

Fire alarm system is one of the characteristics that are essential and significant in a smart home system. This system is use for protection of life and property. One of the main items that a fire alarm system should have is the heat detector. It is a small device that use as an alarm. This device is very effective and economically saves. Heat detector is a simple alarm system using different sensing techniques in order to detect the possibility of fire.

There are different types of fire detection devices or fire alarm available in the market but the most commonly use are the heat and smoke detectors.

In heat detector, it wills response to heat if fire does occur. It use changes in a certain medium physically and electrically do to the exposure to heat. We will look at various types of heat detector such as heat sensing detector, rate compensating detector and rate of rise detector in this project.

In smoke detectors, the ionization smoke detector and the photoelectric smoke detector are the methods that are normally used.

Both detector uses different concept in sensing the presence of fire. In this chapter, we will describe the basic operation of these fire alarms and how they operate and the effectiveness of these alarms.

ABSTRACT

Heat Detector is a part of a fire alarm system designed to detect the presence of fire. By using a sensor that can sense heat, this device proves to be very useful and can play it part as an alarm. With this project, we will describe to the people how essential it is to install a fire alarm system in their building and house. This project will show how easy it is to create a simple fire alarm system. With heat detector, people will feel secure and will learn to react rationally if a fire did happen because the purpose of a heat detector is to warn consumers if there's a fire in the building or house. With a cost less than a hundred ringgit, one can install a heat detector for their property. In this project, we will see different types of fire alarm system that available. We will see how it's operated and how this device plays it part in completing a perfect fire alarm system.