3. Types of Fire Detection Systems

3.1. The various types of Fire Detectors that can be incorporated into Fire Detection and Alarm systems are as follows.

3.1.1. Smoke Detectors
a. Ionization Smoke Detectors (Banned in many jurisdictions now, including UAE)
b. Photoelectric Smoke Detectors
c. Optical Smoke Detectors
d. Aspiration Type Air Sampling smoke Detectors
e. Beam Type Smoke Detectors
f. Video Type smoke Detectors

3.1.2. Heat Detectors
a. Spot Type Heat Detectors
b. Line Type Heat Detectors
c. Fusible Link Heat Detectors

3.1.3. Radiant Energy Detectors
a. Ultraviolet Flame Detectors
b. Infrared Flame Detectors
c. Video Type Flame Detection
d. Spark and Ember Flame Detection

3.1.4. Multi-sensing Detectors
a. Heat-Smoke Multisensing Detectors
b. Combination of Gases Detectors

3.1.5. Manual Detectors
a. Manual Break Glass Call Point
b. Manual push button Call Point
c. Manual Pull Station

3.1.6. Supervisory Detectors
a. Water Flow Switch Detectors (Sprinkler System, Deluge System etc.)
b. Pressure Switch Detectors (Pre-action Systems,
c. Supervisory Signal Detectors (Pump, Water low level , automatic Door Close/Open, elevator status etc.)

3.1.7. Gas Detectors
a. Carbon Monoxide (CO) Detectors
b. LP Gas Detectors
c. Flammable Gas and Vapor Detectors

3.2. The various types of Control Mechanisms to monitor the Detectors and Sensors are as follows.

a. Addressable Fire Control Systems
b. Conventional Fire Control Systems
c. Wired Fire Control Systems

| CDGH-OP-25 | September 2018   Page 454 of 1348

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