# Detect-a-Fire® Units

These highly reliable detection and release devices have been a standard of the industry for over 45 years; controlling the release of fire suppression agents such as $CO_2$, water, or dry chemicals. In some systems the device is used as an alarm to sense overheat or fire and alert personnel. In other systems, it is used to sense fire and actuate fire attack systems. Detect-a-Fire® units are designed with rate compensation. Only the Detect-a-Fire® unit accurately senses the surrounding air temperature as well as fire growth


Figure 38


Figure 39


Figure 40


Figure 41

rate. At precisely the predetermined danger point, the system is activated

### Table 31 – Fenwal Detect-a-Fire®

| Contact Action on Rise | Fig. No. | Description | Catalog Number |
|---|---|---|---|
| Open | 40 | Horizontal Flush | 12 027020 000 |
| Open | 39 | Horizontal Surface | 12 027020 001 |
| Close | 40 | Horizontal Flush | 12 027021 000 |
| Close | 39 | Horizontal Surface | 12 027021 001 |
| Open | 41 | Vertical Hex | 12 027120 000 |
| Close | 41 | Vertical Hex | 12 027121 000 |
| Open | 42 | Vertical Coupling | 12 028020 003 |
| Close | 42 | Vertical Coupling | 12 028021 000 |

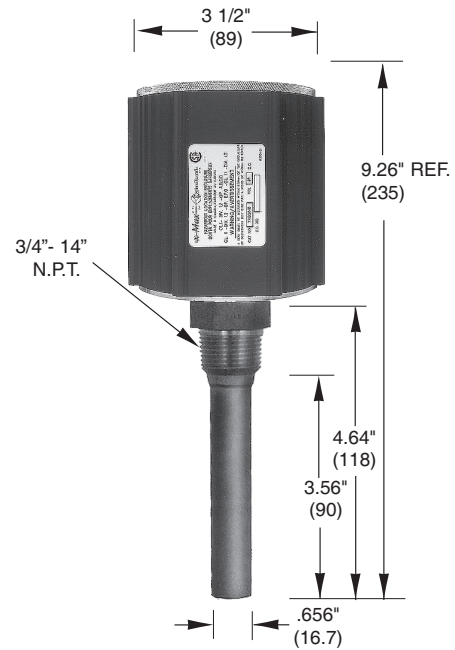Note: 5.8 Amps, 125VAC
0.5 Amps, 125VDC

Horizontal detectors (Figures 39 & 40) are designed for locations where appearance is a factor. Horizontal detectors are suitable for non-hazardous locations. Flush mounted units (Figure 39) are designed to mount onto standard 4" (102 mm) octagonal electrical boxes. Vertical detectors (Figures 41 & 42) can be operated in hazardous locations provided they are terminated in an approved fitting. Models are available for all hazardous locations.

## To Order Specify

Quantity, catalog number and temperature setting.

# Series XTF - Thermoswitch® Controllers For Hazardous Locations

The XTF Thermoswitch® is an assembly consisting of a Thermoswitch Unit, well assembly, and explosion-proof junction box designed to meet the UL & CSA requirements of Class I, Groups A, B, C & D, and Class II, Group E, F &G, Division 1 & 2 locations. The sensing element, which is a cartridge-type Thermoswitch Unit, is seated in the well assembly and held in place by a snap ring. The well assembly, in turn, is threaded in to the explosion-proof junction box, giving protection to the controller.



## Fenwal Series 17000

Electrical Rating: 10 Amps @ 120VAC

5 Amps @ 240VAC Resistive

Pressure Rating: 100 PSIG @ 250°F (121°C)

60 PSIG @ 500°F (260°C)



### Table 33 – Series XTF

| Temp. Range | Contact Action on Temperature Rise | Catalog Number |
|---|---|---|
| -100°F to 400°F (-73°C to 204°C) | Opens | XTF17000 |
| -100°F to 400°F (-73°C to 204°C) | Closes | XTF17021 |

Note: Above units can be factory preset and/or locked to any temperature within the range. Check factory for details.

THS2059-0523