

#### DESCRIPTION

The CT007 Standard Response Concealed Pendent Sprinklers (Ret. Figure ) are automatic sprinklers of the frangible bulb type. They are "standard/quick response-standard orifice spray sprinkler" intended for use in fire sprinkler systems designed in accordance with the standard installation rules recognized by the applicable Listing or Approval agency (e.g., UL Listing is based on NFPA 13 requirements). The Concealed Pendent Sprinklers all produce a hemispherical water distribution pattern below the deflector.

#### SPRINKLER OPERATION

During fire conditions, the sufficient ambient temperature will fuse the solder between the Cover Plate and the Enclosure. The Cover Plate will fall away from the Enclosure, to expose the Sprinkler for operation. Then the thermal-sensitive liquid in the Sprinkler's Glass Bulb expands, causing the Bulb to shatter, releasing the Button and Spring Seal Assembly. Water flowing through the sprinkler orifice strikes the Sprinkler Deflector, forming a uniform spray pattern to extinguish or control the fire.



#### COVERAGE

For coverage area and sprinkler placement, refer to NFPA13 standards.

#### TECHNICAL SPECIFICATIONS

| MODEL NO.                    | CT007   |
|------------------------------|---|
| Style                        | Concealed Pendent   |
| Bulb Nominal Dia. & Response | Ø5mm, Standard Response                                     |
| Thread Size [Optional]       | NPT1/2 or R1/2  |
| Nominal Orifice Size         | 1/2 Inch  |
| Nominal K-Factor             | 5.6 (U.S.)/80 (metric)                                      |
| Max. Working Pressure        | 175 psig/1.2 MPa (12 bar)                                   |
| Factory Hydrostatic Test     | 100% @ 500psig (3.4 MPa)                                    |
| Min. Operating Pressure      | 7 psig/0.048 MPa (0.48 bar)                                 |
| Sprinkler Finish [Optional]  | Natural Brass or Chrome Plated or Color Coated in Any Color |
| Escutcheon Finish            | Chrome Plated or Color Coated In Any Color                  |
| Listings and Approvals       | UL Listed   |

#### AVAILABLE TEMPERATURE RATING

| TEMP. CLASSIFICATION                       | ORDINARY   | ORDINARY   | INTERMEDIATE | INTERMEDIATE |
|--|------------|------------|--------------|--------------|
| Nominal Temp. Rating                       | 135°F/57°C | 155°F/68°C | 175°F/79°C   | 200°F/93°C   |
| Max. Ambient Temp. Allowed <sup>5</sup>    | 115°F/46°C | 135°F/57°C | 155°F/68°C   | 180°F/82°C   |
| Max. Recommended Ambient Temp <sup>6</sup> | 100°F/38°C | 100°F/38°C | 150°F/65°C   | 150°F/65°C   |
| Glass Bulb Color <sup>7</sup>              | Orange     | Red        | Yellow       | Green        |