Engineering Specification

Model N252EC Pendent Automatic Sprinklers

**Recommended CSI MasterFormat Specification Location: 21 13 00, Fire Suppression Sprinkler Systems (formerly 13930)**

Sprinklers shall be **[**cULus Listed standard response**]** **[**FM Approved quick response**]**, control mode density/area (CMDA) extended coverage pendent sprinklers for storage and non-storage applications in accordance with the design requirements of **[**NFPA 13**] [**FM Global Data Sheets**]**. The sprinkler shall be approved for use as a control mode specific application (CMSA) sprinkler in accordance with **[**the Alternative Sprinkler Systems Design chapter for NFPA 13**] [**FM Global Data Sheet 8-9**]**. Sprinklers shall be approved for use in extended coverage in-rack sprinkler systems in accordance with NFPA 13 and FM Data Sheet 8-9. Sprinklers shall offer a maximum coverage area of 14 ft. x 14 ft. (4.3 m x 4.3 m) and have a nominal K-factor of 25.2 gpm/psi1/2 (360 l/min/bar1/2) and **[**1” NPT**] [**ISO7 R-1**]** threaded end connections. Sprinklers shall have a rated working pressure of 175 psi (12 bar). Sprinkler temperature rating shall be **[**Ordinary 165ºF (74ºC)**] [**Intermediate 212ºF (100ºC)**]**. Sprinkler frame and deflector to be of bronze construction. Fusible alloy solder link assembly shall utilize the strut and lever principle of operation with approved fast response beryllium-nickel thermal element with protective **[**black painted, 165ºF (74ºC)**] [**gray painted, 212ºF (100ºC)**]** coating. Water seal shall consist of a Teflon-coated Bellville spring washer and brass cap assembly containing no plastic parts. Response Time Index (RTI) shall be less than 50 ms1/2.

**{For recessed pendent sprinklers, add (cULus only):** Recessed escutcheon assembly shall be a factory-assembled, two-piece steel escutcheon of push-on and thread off design with ½” adjustment. Standard finish shall be **[**White Polyester**] [**Chrome Plated**] [**Brass**] [**special finish – specify**]**.**}**

Extended coverage pendent sprinklers shall be Reliable Model N252EC, SIN RA0842. Refer to Reliable Bulletin 008 for associated sprinkler information.