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Reliable®

Model G4 Concealed Automatic Sprinkler

The Concealer™

Features

1. Cover plate assembly attachment with ½" (13mm) adjustment. Does not require clips or springs.
2. Smooth aesthetic ceiling profile.
3. Available in white or other color painted or brass, chrome, or black plated finishes.
4. Ordinary and intermediate temperature ratings.
5. Multiple orifices for design flexibility.

Approvals & Listings

1. Underwriters Laboratories Inc. (UL)
2. Underwriters Laboratories of Canada. (ULC)
3. N.Y.C. BS&A No. 587-75-SA.

Note: Approvals are for light and ordinary hazard, except for small orifice sprinklers which are limited to light hazard occupancies. The cup and skirt are fabricated from plated steel and are intended for interior non corrosive applications.

Application

The Reliable Model G4 Concealer™ is the most versatile concealed sprinkler available. It provides the best form of fire protection while offering an attractive appearance and ½" (13mm) of cover adjustment for ease of installation. The small diameter cover plate assembly is easily attached and blends into the ceiling, concealing the most dependable fire protection available, an automatic sprinkler system.

The Concealer™ is designed for use where aesthetic appearance is important. Offices, hospitals, motels and restaurants are but a few of the applications where it can be used. It is available in different orifice sizes allowing the designer to optimize system performance, thereby achieving a most efficient installation.

The Concealer™ can eliminate the need for precise cutting of drop nipples. The cover plate assembly can be adjusted without tools so it mates accurately with the ceiling. The fire protection system need not be shut down to adjust or remove the cover plate assembly.

Important! Reliable fire sprinklers must be handled, stored, and installed in accordance with the guidelines in Caution Sheet 310 and this bulletin. Failure to follow these instructions may result in unintended operation or nonoperation of the fire protection system.





Product Description

The Reliable Model G4 Concealer™ standard response uses the proven Model G fusible element in a standard style sprinkler frame with a drop-down deflector. This assembly is recessed into the ceiling and concealed by a flat cover plate. This threaded engagement provides ½" (13mm) of cover adjustment. The flat cover plate is attached to the skirt using an ordinary temperature classification solder. This results in a strong cover plate assembly with an ordinary temperature rating, and an intermediate temperature sprinkler which can be installed in 150°F (66°C) environments. When the ceiling temperature rises, the solder holding the cover plate to the skirt melts, the flat cover plate released thus exposing the sprinkler inside to the rising ambient temperature.

The subsequent fusing of the sprinkler element opens the waterway and causes the deflector to drop into position to distribute the discharging water. Any secure engagement of the threads between the cover plate and cup will assure that the drop–down deflector is properly located below the ceiling when a sprinkler operates.

Installation

Do not install The Concealer™ in ceilings which have positive pressure in the space in the space above.

After a $2\frac{5}{8}$ inch diameter hole is cut in the ceiling, the sprinkler is to be installed with the Model G4 Wrench. The wrench has drive tangs which insert into cup slots. When installing a sprinkler the wrench is first positioned into the sprinkler/cup assembly until the wrench tangs engage drive slots in the top of the cup (there are two sets of mating drive slots in the cup). The sprinkler is then tightened into the pipe fitting. When inserting or removing the wrench from the sprinkler/cup assembly care should be taken to prevent damage to the sprinkler. DO NOT WRENCH ON ANY OTHER PART OF THE SPRINKLER/CUP ASSEMBLY. Install the cover plate assembly by pushing in and turning clockwise until it is tight against the ceiling.

Maintenance

The Model G4 Concealer™ should be inspected and the sprinkler system maintained in accordance with NFPA 25. Do not clean sprinklers with soap and water, ammonia or any other cleaning fluids. Replace any sprinkler or cover plate that has been painted (other than factory applied) or damaged in any way. A stock of spare sprinklers should be maintained to allow quick replacement of damaged or operated sprinklers. Prior to installation, sprinklers should be maintained in the original cartons and packaging to minimize the potential for damage to sprinklers that would cause improper operation or non-operation.

Ordering Information

1. Sprinkler Model
2. Temperature Rating
3. Nominal Orifice
4. Flat Cover Plate Finish

Note: Unless otherwise specified, the 165°F (74°C) sprinkler will be provided with the 165°F (74°C) cover.

Cover Plate Finishes

Standard Finishes
White Paint
Chrome
Special Application Finishes
Off White Paint
Black Paint
Custom Color Paint – Specify(1)
Raw Brass (Lacquered)
Bright Brass
Finished Bronze
Satin Chrome
Custom Printed

(1) Custom color paint is semi-gloss, unless specified otherwise.

Installation Wrench

Model G4 Sprinkler Wrench

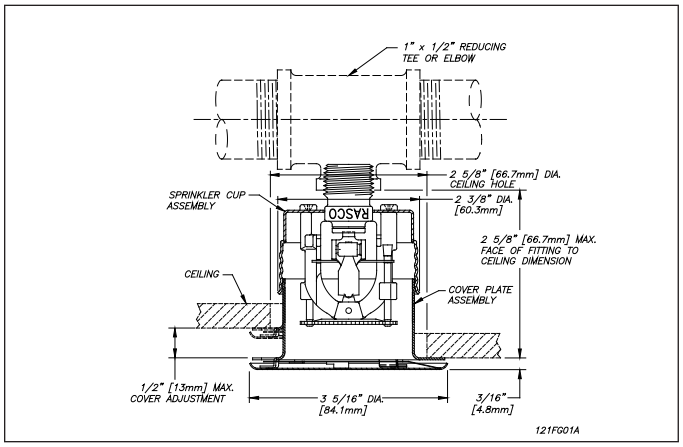


Fig. 1 - ½" NPT (R½) Threaded Inlet

Temperature Ratings

Classification	Sprinkler	G4/G5 Cover Plate	Max. Ambient Temp.
Ordinary	135°F/57°C	135°F/57°C	100°F/38°C
Ordinary	165°F/74°C	135°F/57°C	100°F/38°C
Intermediate	212°F/100°C	165°F/74°C	150°F/66°C

Installation Data

Sprinkler Inlet	Total Adjustment	Nominal Orifice	Nominal K Factor		Approvals	Sprinkler Identification Number (SIN)
			US	Metric		
½" NPT (R ½)	½" (13mm)	½" (15mm)	5.6	80	1,2,3	R2115
½" NPT (R ½)	½" (13mm)	$\frac{7}{16}$" (11mm)	4.2	60	1,2,3	R2113
½" NPT (R ½)	½" (13mm)	$\frac{3}{8}$" (10mm)	2.8	40	1,2,3	R2111

The equipment presented in this bulletin is to be installed in accordance with the latest published Standards of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable.

Products manufactured and distributed by Reliable have been protecting life and property for almost 100 years.

Manufactured by

Reliable®

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