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Series LFII Residential, NFPA 13 Optimized Pendent, Recessed, and Concealed Sprinklers 6.9 K-factor, 3/4" NPT

General Description

The Tyco[®] Rapid Response[™] Series LFII (TY4234) Residential Pendent, Recessed Pendent, and Concealed Pendent Sprinklers are decorative, fast response, frangible bulb sprinklers designed for use in residential occupancies such as homes, apartments, dormitories, and hotels. When enhanced flow characteristics for residential portions of any occupancy per NFPA 13 is the major consideration, the Series LFII (TY4234) should be the first choice.

When higher flow demands are required for residential sprinklers used in an NFPA 13 design, the large 6.9 Kfactor of the Series LFII (TY4234) is an attractive choice. Although primarily intended where residential sprinklers are to be used in an NFPA 13 design, the Series LFII (TY4234) can also be used in wet pipe residential sprinkler systems for one-and two-family dwellings and mobile homes per NFPA 13D, and wet pipe residential sprinkler systems for residential occupancies up to and including four stories in height per NFPA 13R.

The recessed version of the Series LFII (TY4234) is intended for use in areas with finished ceilings. It employs a twopiece Style 30 Recessed Escutcheon. The Recessed Escutcheon provides 1/4 inch (6,4 mm) of recessed adjustment or up to 1/2 inch (12,7 mm) of to-

IMPORTANT

Always refer to Technical Data Sheet TFP700 for the "INSTALLER WARNING" that provides cautions with respect to handling and installation of sprinkler systems and components. Improper handling and installation can permanently damage a sprinkler system or its components and cause the sprinkler to fail to operate in a fire situation or cause it to operate prematurely. tal adjustment from the flush mounting surface position. The adjustment provided by the Recessed Escutcheon or Concealed Cover Plate provides a measure of flexibility with regard to which the length of fixed pipe drops to the sprinklers must be cut.

The concealed version utilizes a cover plate assembly that conceals the sprinkler operating components above the ceiling. The separable two-piece design of the Cover Plate and Support Cup Assemblies allows installation of the sprinklers and pressure testing of the fire protection system prior to the installation of the ceiling or application of a finish coating.

Also, the separable "push-on and thread-off" two-piece design of the concealed version provides for 1/2 inch (12,7 mm) of vertical adjustment.

The Series LFII (TY4234) Residential Concealed Pendent Sprinklers are shipped with a Disposable Protective Cap. The Protective Cap is temporarily removed for installation, and it must be replaced to protect the sprinkler while the ceiling is being installed or finished. The tip of the Protective Cap can also be used to mark the center of the ceiling hole into plaster board, ceiling tiles, etc. by gently pushing the ceiling product against the Protective Cap. When ceiling installation is complete, the Protective Cap must be removed and the Cover Plate Assembly installed. The Protective Cap must be removed to ensure proper performance of the sprinklers.

The Series LFII (TY4234) has been designed with heat sensitivity and water distribution characteristics proven to help in the control of residential fires and to improve the chance for occupants to escape or be evacuated.

NOTICE

The Series LFII (TY4234) Residential Pendent, Recessed Pendent, and Concealed Pendent Sprinklers described herein must be installed and maintained in compliance with this document and with the applicable



rapid response[®] Home Fire Sprinkler System





Maximum Coverage Area ^(a) Ft. x Ft. (m x m)	Maximum Spacing Ft. (m)	Minimum Flow ^(b) and Residual Pressure For Horizontal Ceiling (Max. 2 Inch Rise for 12 Inch Run)		Minimum Flow ^(b) and Residual Pressure For Sloped Ceiling (Greater Than 2 Inch Rise for 12 Inch Run Up To Max. 8 Inch Rise for 12 Inch Run)	
		Pendent and Recessed Pendent	Concealed Pendent	Pendent and Recessed Pendent	Concealed Pendent
		155°F/68°C or 175°F/79°C	155°F/68°C or 175°F/79°C	155°F/68°C or 175°F/79°C	155°F/68°C or 175°F/79°C
12 x 12	12	19 GPM (71,9 LPM)	19 GPM (71,9 LPM)	19 GPM (71,9 LPM)	19 GPM (71,9 LPM)
(3,7 x 3,7)	(3,7)	7.6 psi (0,52 bar)	7.6 psi (0,52 bar)	7.6 psi (0,52 bar)	7.6 psi (0,52 bar)
14 x 14	14	19 GPM (71,9 LPM)	19 GPM (71,9 LPM)	19 GPM (71,9 LPM)	19 GPM (71,9 LPM)
(4,3 x 4,3)	(4,3)	7.6 psi (0,52 bar)	7.6 psi (0,52 bar)	7.6 psi (0,52 bar)	7.6 psi (0,52 bar)
16 x 16	16	19 GPM (71,9 LPM)	19 GPM (71,9 LPM)	19 GPM (71,9 LPM)	19 GPM (71,9 LPM)
(4,9 x 4,9)	(4,9)	7.6 psi (0,52 bar)	7.6 psi (0,52 bar)	7.6 psi (0,52 bar)	7.6 psi (0,52 bar)
18 x 18	18	19 GPM (71,9 LPM)	21 GPM (79,5 LPM)	19 GPM (71,9 LPM)	24 GPM (91,8 LPM)
(5,5 x 5,5)	(5,5)	7.6 psi (0,52 bar)	9.3 psi (0,64 bar)	7.6 psi (0,52 bar)	12.1 psi (0,83 bar)
20 x 20	20	22 GPM (83,3 LPM)	24 GPM (90,8 LPM)	24 GPM (91,8 LPM)	24 GPM (91,8 LPM)
(6,1 x 6,1)	(6,1)	10.2 psi (0,70 bar)	12.1 psi (0,83 bar)	12.1 psi (0,83 bar)	12.1 psi (0,83 bar)

(a) For coverage area dimensions less than or between those indicated, it is necessary to use the minimum required flow for the next highest coverage area for which hydraulic design criteria are stated.

(b) Requirement is based on minimum flow in GPM (LPM) from each sprinkler. The associated residual pressures are calculated using the nominal K-factor. Refer to Hydraulic Design Criteria Section for details.

TABLE A UL AND C-UL LISTED NFPA 13D AND NFPA 13R WET PIPE HYDRAULIC DESIGN CRITERIA FOR THE SERIES LFII (TY4234) RESIDENTIAL PENDENT, RECESSED PENDENT, AND CONCEALED PENDENT SPRINKLERS

standards of the National Fire Protection Association, in addition to the standards of any authorities having jurisdiction. Failure to do so may impair the performance of these devices.

The owner is responsible for maintaining their fire protection system and devices in proper operating condition. The installing contractor or sprinkler manufacturer should be contacted with any questions.

Sprinkler/Model Identification Number

SIN TY4234

Technical Data

Approvals:

UL and C-UL Listed (Refer to Table A and the Design Criteria section – Pendent Recessed Pendent, and Concealed Pendent).

FM Approved (Refer to Table B and the Design Criteria section — Pendent and Recessed Pendent).

NYC Approved under MEA 44-03-E-2. The Series LFII Concealed Pendent Sprinklers are only listed and approved with the Series LFII Concealed Cover Plates having a factory applied finish.

Maximum Working Pressure: 175 psi (12,1 bar)

Discharge Coefficient: K=6.9 GPM/psi^{1/2} (99,4 LPM/bar^{1/2})

Pipe Thread Connection: 3/4 NPT

Sprinkler Temperature Rating:

- Pendent and Recessed Pendent: 155°F/68°C or 175°F/79°C
- Concealed Pendent: 155°F/68°C w/139°F/59°C Cover Plate*

175°F/79°C w/139°F/59°C Cover Plate*

*Suitable for use with maximum 100°F/38°C ceiling temperature.

Finishes:

- Sprinkler:
 White Polyester Coated,
 Chrome Plated, or Natural Brass
- Recessed Escutcheon: White, Chrome, or Brass
- Concealed Cover Plate: Refer to Ordering Procedure section.

Physical Characteristics:

Frame Brass
Button Bronze
Sealing Assembly
Beryllium Nickel w/Teflon [†]
Bulb 3 mm dia. Glass
Compression Screw Bronze
Deflector Bronze
Ejection Spring Stainless Steel
Support Cup Steel
Cover Plate Brass
Retainer Brass
Cover Plate Ejection Spring
Stainless Steel

[†]DuPont Registered Trademark

Patents:

U.S.A. 7,201,234

Maximum Coverage	Maximum Spacing Ft. (m)	Minimum Flow ^(b) and Residual Pressure For Horizontal Ceiling (Max. 2 Inch Rise for 12 Inch Run) Pendent and Recessed Pendent	
Area ^(a) Ft. x Ft.			
(m x m)		155°F/68°C or 175°F/79°C	
12 x 12	12	20 GPM (75,7 LPM)	
(3,7 x 3,7)	(3,7)	8.4 psi (0,58 bar)	
14 x 14	14	20 GPM (75,7 LPM)	
(4,3 x 4,3)	(4,3)	8.4 psi (0,58 bar)	
16 x 16	16	20 GPM (75,7 LPM)	
(4,9 x 4,9)	(4,9)	8.4 psi (0,58 bar)	
18 x 18	18	20 GPM (75,7 LPM)	
(5,5 x 5,5)	(5,5)	8.4 psi (0,58 bar)	
20 x 20	20	23 GPM (87,1 LPM)	
(6,1 x 6,1)	(6,1)	11.1 psi (0,76 bar)	

(a) For coverage area dimensions less than or between those indicated, it is necessary to use the minimum required flow for the next highest coverage area for which hydraulic design criteria are stated.

(b) Requirement is based on minimum flow in GPM (LPM) from each sprinkler. The associated residual pressures are calculated using the nominal K-factor. Refer to Hydraulic Design Criteria Section for details.

TABLE B FM APPROVED WET PIPE HYDRAULIC DESIGN CRITERIA FOR THE SERIES LFII (TY4234) RESIDENTIAL PENDENT, RECESSED PENDENT SPRINKLERS

Design Criteria

UL AND C-UL LISTING CRITERIA

The Series LFII (TY4234) Residential Pendent Sprinklers are UL and C-UL Listed for installation in accordance with the following criteria.

Note: When conditions exist that are outside the scope of the provided criteria, refer to the Residential Sprinkler Design Guide TFP490 for the manufacturer's recommendations that may be acceptable to the local Authority having Jurisdiction.

System Type. Only wet pipe systems may be utilized.

Hydraulic Design. The minimum required sprinkler flow rate for systems designed to NFPA 13D or NFPA 13R are given in Table A as a function of temperature rating and the maximum allowable coverage areas. The sprinkler flow rate is the minimum required discharge from each of the total number of "design sprinklers" as specified in NFPA 13D or NFPA 13R. For systems designed to NFPA 13, the number of design sprinklers is to be the four most hydraulically demanding sprinklers. The minimum required discharge from each of the four sprinklers is to be the greater of the following:

- The flow rates given in Table A for NFPA 13D and 13R as a function of temperature rating and the maximum allowable coverage area.
- A minimum discharge of 0.1 gpm/ sq. ft. over the "design area" comprised of the four most hydraulically demanding sprinklers for the actual coverage areas being protected by the four sprinklers.

Example No. 1: A corridor being protected is 8 ft. wide; consequently, an actual coverage area of 8 ft. x 20 ft. is being contemplated. Based on using the LFII (TY4234) Residential Pendent Sprinkler, the flow rate provided in Table A for a 20 ft x 20 ft. coverage area is 22 GPM. However based on minimum discharge of 0.1 gpm/sq. ft. the flow rate would be 16 GPM. In this case a minimum flow rate of 22 GPM for this design sprinkler must be utilized. Example No. 2: A long narrow room being protected is 12 ft. wide; consequently, an actual coverage area of 12 ft. x 20 ft. is being contemplated. Based on using the LFII (TY4234) Residential Pendent Sprinkler, the flow rate provided in Table A for a 20 ft x 20 ft. coverage area is 22 GPM. However based on minimum discharge of 0.1 gpm/sq. ft. the flow rate would be 24 GPM. In this case a minimum flow rate of 24 GPM for this design sprinkler must be utilized.

Obstruction To Water Distribution.

Locations of sprinklers are to be in accordance with the obstruction rules of NFPA 13 for residential sprinklers.

Operational Sensitivity (Horizontal and Sloped Ceilings).

• For pendent sprinkler installations, the sprinklers are to be installed with a deflector to ceiling distance of 1-1/2 to 4 inches (38 to 100 mm).

Note: So as to help avoid obstructions to water distribution, a maximum 12 inch deflector-to-ceiling distance is permitted for NFPA 13D and NFPA 13R applications where the sprinklers are located in closets.

- For recessed pendent sprinkler installations, the sprinklers relative to the ceiling mounting surface are to be installed per Figure 2.
- For concealed pendent sprinkler installations, the sprinklers relative to the ceiling mounting surface are to be installed per Figure 6.

Sprinkler Spacing. The minimum spacing between sprinklers is 8 feet (2,4 m). The maximum spacing between sprinklers cannot exceed the length of the coverage area (Ref. Table A) being hydraulically calculated (e.g., maximum 12 feet for a 12 ft. x 12 ft. coverage area, or 20 feet for a 20 ft. x 20 ft. coverage area).

The Series LFII must not be used in applications where the air pressure above the ceiling is greater than that below. Down drafts through the Support Cup could delay sprinkler operation in a fire situation.

FM APPROVAL CRITERIA

The Series LFII (TY4234) Residential Pendent Sprinklers are FM Approved for installation in accordance with the applicable Factory Mutual Loss Prevention Data Sheet. Criteria provided by FM may differ from UL and/or NFPA, therefore the designer should review and become familiar with Factory Mutual requirements before proceeding with design.



Note: When conditions exist that are outside the scope of the provided criteria, refer to the Residential Sprinkler Design Guide TFP490 for the manufacturer's recommendations that may be acceptable to the local Authority having Jurisdiction.

Note: The following information pertaining to System Type, Hydraulic Design, and Sprinkler spacing are provided for reference and are not intended to provide complete installation criteria as provide in the applicable Factory Mutual Loss Prevention Data Sheet

System Type. Only wet pipe systems may be utilized.

Hydraulic Design. The number of design sprinklers is to be the four most hydraulically demanding sprinklers. The minimum required discharge from each of the four sprinklers is to be the greater of the following:

- The flow rates given in Table B as a function of the maximum allowable coverage area.
- A minimum discharge of 0.1 gpm/ sq. ft. over the "design area" comprised of the four most hydraulically demanding sprinklers for the actual coverage areas being protected by the four sprinklers.

Example No. 1: A corridor being protected is 8 ft. wide; consequently, an actual coverage area of 8 ft. x 20 ft. is being contemplated. Based on using the LFII (TY4234) Residential Pendent Sprinkler, the flow rate provided in Table B for a 20 ft x 20 ft. coverage area is 23 GPM. However based on minimum discharge of 0.1 gpm/sq. ft. the flow rate would be 16 GPM. In this case a minimum flow rate of 23 GPM for this design sprinkler must be utilized. Example No. 2: A long narrow room being protected is 12 ft. wide; consequently, an actual coverage area of 12 ft. x 20 ft. is being contemplated. Based on using the LFII (TY4234) Residential Pendent Sprinkler, the flow rate provided in Table B for a 20 ft x 20 ft. coverage area is 23 GPM. However based on minimum discharge of 0.1 gpm/sq. ft. the flow rate would be 24 GPM. In this case a minimum flow rate of 24 GPM for this design sprinkler must be utilized.

Sprinkler Spacing. The minimum spacing between sprinklers is 8 feet (2,4 m). The maximum spacing between sprinklers cannot exceed the length of the coverage area (Ref. Table B) being hydraulically calculated (e.g., maximum 12 feet for a 12 ft. x 12 ft. coverage area, or 20 feet for a 20 ft. x 20 ft. coverage area).

The Series RFII must not be used in applications where the air pressure above the ceiling is greater than that below. Down drafts through the Support Cup could delay sprinkler operation in a fire situation.

Operation

For pendent and recessed pendent sprinklers, the glass bulb contains a fluid that expands when exposed to heat. When the rated temperature is reached, the fluid expands sufficiently to shatter the glass bulb allowing the sprinkler to activate and flow water.

For the concealed pendent sprinkler, the cover plate which is soldered to the support cup at three places, first falls away when exposed to heat from a fire. The sprinkler then operates similar to pendent and recessed pendent sprinklers described above.



Installation

The Tyco[®] Rapid Response[™] Series LFII (TY4234) must be installed in accordance with the following instructions:

NOTICE

Do not install any bulb type sprinkler if the bulb is cracked or there is a loss of liquid from the bulb. With the sprinkler held horizontally, a small air bubble should be present. The diameter of the air bubble is approximately 1/16 inch (1,6 mm).

A 3/4 inch NPT sprinkler joint should be obtained with a minimum to maximum torque of 10 to 20 ft.lbs. (13,4 to 26,8 Nm). Higher levels of torque may distort the sprinkler inlet with consequent leakage or impairment of the sprinkler.

Do not attempt to compensate for insufficient adjustment in an Escutcheon Plate by under-or over-tightening the Sprinkler. Readjust the position of the sprinkler fitting to suit.

The **Series LFII Pendent Sprinklers** must be installed in accordance with the Steps 1P through 3P.

Step 1P. Pendent sprinklers are to be installed in the pendent position with the deflector parallel to the ceiling.

Step 2P. With pipe thread sealant applied to the pipe threads, hand tighten the sprinkler into the sprinkler fitting.

NOTICE

The sprinkler has been provided with a Sprinkler Strap similar that shown in Figure 5 for the concealed sprinkler assembly. Do not remove the Sprinkler Strap until the sprinkler system is to be placed in service. As long as the Sprinkler Strap remains in place, the system is considered to be "Out Of Service".

Step 3P. Tighten the sprinkler into the sprinkler fitting using only the W-Type 6 Sprinkler Wrench (Ref. Figure 3). With reference to Figure 1, the W-Type 6 Sprinkler Wrench is to be applied to the wrench flats.

Note: Refer to Technical Data Sheet TFP700 regarding instructions for the removal of the Sprinkler Strap.

The **Series LFII Recessed Pendent Sprinklers** must be installed in accordance with Steps 1R through 4R.

Step 1R. Recessed pendent sprinklers are to be installed in the pendent position with the deflector parallel to the ceiling.

Step 2R. After installing the Style 30 Mounting Plate over the sprinkler threads and with pipe thread sealant applied to the pipe threads, hand tighten the sprinkler into the sprinkler fitting.

NOTICE

The sprinkler has been provided with a Sprinkler Strap similar that shown in Figure 5 for the concealed sprinkler assembly. Do not remove the Sprinkler Strap until the sprinkler system is to be placed in service. As long as the Sprin-



kler Strap remains in place, the system is considered to be "Out Of Service".

Step 3R. Tighten the sprinkler into the sprinkler fitting using only the W-Type 7 Recessed Sprinkler Wrench (Ref. Figure 4). With reference to Figure 1, the W-Type 7 Recessed Sprinkler Wrench is to be applied to the sprinkler wrench flats.

Step 4R. After the ceiling has been installed or the finish coat has been applied, slide on the Style 30 Closure over the Series LFII Sprinkler and push the Closure over the Mounting Plate until its flange comes in contact with the ceiling.

Note: Refer to Technical Data Sheet TFP700 regarding instructions for the removal of the Sprinkler Strap.

The Series LFII Concealed Pendent **Sprinklers** must be installed in accordance with Steps 1C through 6C.

Step 1C. The sprinkler must only be installed in the pendent position and with the centerline of the sprinkler perpendicular to the mounting surface.

Step 2C. Remove the Protective Cap.

NOTICE

Do not remove the Sprinkler Strap (Fig. 5) until the sprinkler system is to be placed in service.



Step 3C. With pipe thread sealant applied to the pipe threads, and using the W-Type 7 Wrench shown in Figure 4, install and tighten the Sprinkler/Support Cup Assembly into the fitting. The W-Type 7 Wrench will accept a 1/2 inch ratchet drive.

Step 4C. Replace the Protective Cap by pushing it upwards until it bottoms out against the Support Cup. The Protective Cap helps prevent damage to the Deflector and Arms during ceiling installation and/or during application of the finish coating of the ceiling. It may also be used to locate the center of the clearance hole by gently pushing the ceiling material against the center point of the Cap.

NOTICE

As long as the Sprinkler Strap (Fig. 5) or the Protective Cap (Fig. 6) remains in place, the system is considered to be "Out Of Service".

Step 5C. After the ceiling has been completed with the 2-1/2 inch (63 mm) diameter clearance hole and in preparation for installing the Cover Plate/Retainer Assembly, remove and discard the Protective Cap and the Sprinkler Strap.

Note: Refer to Technical Data Sheet TFP700 regarding instructions for the removal of the Sprinkler Strap.

Step 6C. Push the Cover Plate/Retainer Assembly into the Support Cup, and as necessary, make the final adjustment of the Cover Plate with respect to the ceiling by turning the Cover Plate/Retainer Assembly clockwise until its flange just comes in contact with the ceiling.

If it becomes necessary to remove the Cover Plate, it can be removed by unscrewing in a counter-clockwise direction.

If the Cover Plate/Retainer Assembly cannot be engaged with the Support Cup or the Cover Plate/Retainer Assembly cannot be engaged sufficiently to contact the ceiling, the Sprinkler Fitting must be repositioned.

Care and Maintenance

The Tyco[®] Rapid Response[™] Series LFII (TY4234) must be maintained and serviced in accordance with the following instructions:

NOTICE

Absence of an Escutcheon Plate may delay the sprinkler operation in a fire situation.

When properly installed, there is a nominal 3/32 inch (2,4 mm) air gap between the lip of the Cover Plate and the ceiling, as shown in Figure 6. This air gap is necessary for proper operation of the sprinkler by allowing heat flow from a fire to pass below and above the Cover Plate to help assure appropriate release of the Cover Plate in a fire situation. If the ceiling is to be repainted after the installation of the Sprinkler, care must be exercised to ensure that the new paint does NOT seal off any of the air gap.

Factory painted Cover Plates MUST NOT be repainted. They should be replaced, if necessary, by factory painted units. Non-factory applied paint may adversely delay or prevent sprinkler operation in the event of a fire.

Do not pull the Cover Plate relative to the Enclosure. Separation may result.

Before closing a fire protection system main control valve for maintenance work on the fire protection system which it controls, permission to shut down the affected fire protection system must be obtained from the proper authorities and all personnel who may be affected by this action must be notified.

Sprinklers which are found to be leaking or exhibiting visible signs of corrosion must be replaced.

Automatic sprinklers must never be painted, plated, coated, or otherwise altered after leaving the factory. Modified or over heated sprinklers must be replaced.

Care must be exercised to avoid damage to the sprinklers -before, during, and after installation. Sprinklers damaged by dropping, striking, wrench twist/slippage, or the like, must be replaced. Also, replace any sprinkler that has a cracked bulb or that has lost liquid from its bulb. (Ref. Installation Section).

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of the National Fire Protection Association (e.g., NFPA 25), in addition to the standards of any other authorities having jurisdiction. The installing contractor or sprinkler manufacturer should be contacted relative to any questions.

NOTICE

The owner must assure that the sprinklers are not used for hanging of any objects and that the sprinklers are only cleaned by means of gently dusting with a feather duster; otherwise, nonoperation in the event of a fire or inadvertent operation may result.

Automatic sprinkler systems should be inspected, tested, and maintained by a qualified Inspection Service in accordance with local requirements and/or national codes.

Limited Warranty

Products manufactured by Tyco Fire & Building Products (TFBP) are warranted solely to the original Buyer for ten (10) vears against defects in material and workmanship when paid for and properly installed and maintained under normal use and service. This warranty will expire ten (10) years from date of shipment by TFBP. No warranty is given for products or components manufactured by companies not affiliated by ownership with TFBP or for products and components which have been subject to misuse, improper installation, corrosion, or which have not been installed, maintained, modified or repaired in accordance with applicable Standards of the National Fire Protection Association, and/or the standards of any other Authorities Having Jurisdiction. Materials found by TFBP to be defective shall be either repaired or replaced, at TFBP's sole option. TFBP neither assumes, nor authorizes any person to assume for it, any other obligation in connection with the sale of products or parts of products. TFBP shall not be responsible for sprinkler system design errors or inaccurate or incomplete information supplied by Buyer or Buyer's representatives.

In no event shall TFBP be liable, in contract, tort, strict liability or under any other legal theory, for incidental, indirect, special or consequential damages, including but not limited to labor charges, regardless of whether TFBP was informed about the possibility of such damages, and in no event shall TFBP's liability exceed an amount equal to the sales price.

The foregoing warranty is made in lieu of any and all other warranties, express or implied, including warranties of merchantability and fitness for a particular purpose.

This limited warranty sets forth the exclusive remedy for claims based on failure of or defect in products, materials or components, whether the claim is made in contract, tort, strict liability or any other legal theory.

This warranty will apply to the full extent permitted by law. The invalidity, in whole or part, of any portion of this warranty will not affect the remainder.

Ordering Procedure

When placing an order, indicate the full product name. Contact your local distributor for availability.

- For pendent sprinkler, order pendent sprinkler assembly plus sprinkler wrench.
- For recessed pendent sprinkler, order pendent sprinkler assembly plus separately ordered recessed escutcheon plus sprinkler wrench.
- For concealed pendent sprinkler, order concealed pendent sprinkler assembly plus separately ordered cover plate assembly plus sprinkler wrench.

Pendent Sprinkler Assembly:

Series LFII (TY4234), K=6.9, Residential Pendent Sprinkler with (specify) temperature rating and (specify) finish, P/N (specify).

155°F/68°C Chrome PlatedP/N 51-069-9-155
155°F/68°C Signal White (a) (RAL9003)P/N 51-069-4-155
155°F/68°C Pure White (b) (RAL9010)
155°F/68°C Natural BrassP/N 51-069-1-155
175°F/79°C or Chrome PlatedP/N 51-069-9-175
175°F/79°C Signal White (a) (RAL9003)P/N 51-069-4-175
175°F/79°C Pure White (b) (RAL9010)*P/N 51-069-3-175
175°F/79°C Natural Brass P/N 51-069-1-175
(a) Previously known as Bright White.

(b) Eastern Hemisphere sales only.

Separately Ordered Recessed Escutcheon:

Specify: Style 30 Recessed Escutcheon with (specify*) finish, P/N (specify*).

*Refer to Technical Data Sheet TFP770.

Concealed Pendent Sprinkler Assembly:

Series LFII (TY4234), K=6.9, Residential Concealed Pendent Sprinkler with (specify) temperature rating and without Cover Plate Assembly, P/N (specify).

155°F/68°C..... P/N 51-068-1-155 175°F/79°C.....P/N 51-068-1-175

Separately Ordered Cover Plate Assembly:

139°F/58°C, Cover Plate Assembly having a (specify) finish for the Series LFII (TY4234), K=6.9, Residential Concealed Pendent Sprinkler, P/N (specify).

Chrome	P/N 56-873-9-135
Signal White (a) (RAL 9003)	P/N 56-873-4-135
Pure White (b) (RAL 9010)	P/N 56-873-3-135
Custom	P/N 56-873-X-135
(a) Previously known as	Bright White.

(b) Eastern Hemisphere sales only.

(b) Eastern Hemisphere sales only.

Separately Ordered Sprinkler Wrench:

Specify: W-Type 6 Sprinkler Wrench, P/N 56-000-6-387. (For pendent sprinklers.)

Specify: W-Type 7 Sprinkler Wrench, P/N 56-850-4-001. (For recessed pendent sprinklers and concealed pendent sprinklers.)