

# FR™ Enclosed and Gasketed; FZ™ and FD™ Hazardous Locations Luminaires Nonmetallic Fluorescent

4 foot, 2 lamp fixtures. High-impact fiberglass reinforced polyester fixtures suitable for use in wet and damp locations.

**FR Series**  
Wet Locations  
IP65 when used with optional polycarbonate lens

**FZ Series**  
Class I, Zone 2, IIC  
AEx nA IIC T5 IP65  
Ex nA IIC T5 IP65

**FD Series**  
Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, IIC

## Applications

- For use in locations where a high degree of corrosion resistance is required.
- FR Series:
  - For use in areas where high humidity or water vapor are present
  - Typical uses include meat- or food-processing plants, dairy or drug plants, breweries, kitchens, chemical plants, car washes, laundries and parking garages.
  - Can be used indoors or outdoors in protected locations (wet locations).
  - Operates safely in 131 °F/55 °C ambient temperature areas.
- FZ and FD Series:
  - For use in hazardous locations defined by the NEC as Class I, Division 2; and Class I, Zone 2.
  - For wet-location use where protection against dirt, water and moisture is necessary.
  - Typical applications include oil refineries, petrochemical facilities, pulp and paper mills, food-processing plants, warehouses, underground tunnels and general manufacturing facilities.
- FZ Series is UL Listed for Class I, Zone 2.
- FD Series fixture is UL listed for Class I, Division 2.

## Features

- Fixtures are available with ballasts to support T12 and T8 lamps for nearly all U.S. and foreign voltage and frequency combinations.
- Low operating costs provide more lumens per Watt than incandescent fixtures.
- Housing is smooth, seamless, one-piece injection molded.
- Lens comes in high-impact polycarbonate plastic or impact-resistant acrylic.
- Fixtures are washable, non-conductive and corrosion-resistant.
- Enclosure is rated at IP65 (using polycarbonate lens), dust-proof and protected against water spray.
- A compressible, one-piece, non-thixotropic polyol gasket is bonded to the housing around the entire perimeter. It forms a continuous tight seal with the lens to keep out dirt, vapor and moisture.
- Lens is securely clamped to fixture using six captive corrosion-proof molded celcon tension latches. Lens is impact-resistant acrylic to protect lamps against breakage, and protect work area from broken lamp glass.
- Electrical components are mounted on a metallic wireway. Reflector is supported by internal safety springs to simplify installation and servicing.
- Optional fusing protects circuitry against occasional line voltage spikes.
- FR Series fixtures are available with one or two watertight 1/2" hubs for electrical-feed mounting or single-entry mounting.
- FZ fixtures are available with either 1/2" NPT or cable gland entries.
  - Cable glands are not available with FD series.

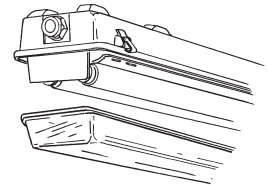
## Standard Materials

- Housing: fiberglass reinforced polyester
- Lens: polycarbonate or acrylic. (Fixture has IP65 rating with polycarbonate lens.) Acrylic lens supplied as standard
- Latches: celcon
- Ceiling mounting bracket: stainless steel
- Adjustable wall mount: copperfree (4/10 of 1% max.) aluminum
- Fixed wall mount: stainless steel



## Illustrated Features

**Non-thixotropic polyol gasket is bonded to housing. With plastic latches closed, it forms a continuous, tight seal with lens. Keeps out moisture, vapor and dirt. Allows fast, easy fixture washing.**



- Chain mount: zinc plated steel
- Gasket: non-thixotropic polyol
- Hubs: zinc plated steel with neoprene o-ring
- Lampholders: polycarbonate

## Standard Finishes

- Housing: white color finish
- Celcon latches: white color finish
- Adjustable wall mount: epoxy powder coat

## Options:

- F - Fused
- T - Terminal Blocks
- P - Polycarbonate Lens for IP65 Rating
- E - Emergency Battery Pack capability in moments of power interruption. Luminaire automatically switches to emergency mode, keeping one lamp illuminated for a minimum of 90 minutes. When AC power is restored, battery automatically recharges in 24 hours. Initial light output is 600-700 lumens.








## Compliances and Certifications

- FR Series:
  - UL Standard: UL 1598
  - UL Listed: E187946
  - CSA Standard: C22.2 No. 250
  - cUL Listed: E187946
- FZ Series:
  - UL Standard: UL 1598, UL 844, UL 60079-0, UL 60079-15
  - UL Listed: E10794
  - CSA Standard: C22.2 No. 250, C22.2 No. 137, CAN E60079-0, CAN E60079-15
  - cUL Listed: E10794
- FD Series:
  - UL Standard: UL 1598, UL 844
  - UL Listed: E10794
  - CSA Standard: C22.2 No. 250, C22.2 No. 137
  - cUL Listed: E10794

# FR™ Enclosed and Gasketed; FZ™ and FD™ Hazardous Locations Luminaires

## Nonmetallic Fluorescent. Accessories and Replacement Parts

4 foot, 2 lamp fixtures. High-impact fiberglass reinforced polyester fixtures suitable for use in wet and damp locations.

Item	Description	Catalog Number
<b>Hub</b> 	1/2" NPT watertight conduit hub	<b>FHUB</b>
<b>Cable Gland</b> 	Cable gland	<b>FGLAND</b>
<b>Lampholder</b> 	32 W (T8) and 40 W (T12) lampholder	<b>FS0C40</b>
<b>Lens Clip</b> 	Standard plastic clips	<b>FPCLIP</b>
<b>Lens</b> 	Acrylic lens cover	<b>FLENS</b>
	Polycarbonate lens cover ①	<b>FPLENS</b>
<b>Ceiling Mounting Bracket (Supplied standard with product)</b> 	Stainless steel bracket with mounting hardware (set of 2)	<b>FBRACKET</b>
<b>Fixed 45° Wall Mount</b> 	11 gauge (1/8") stainless steel (set of 2)	<b>FVWFM</b>

① Polycarbonate lens standard for FZ series. When used with FD series, fixture has an IP65 rating.