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.
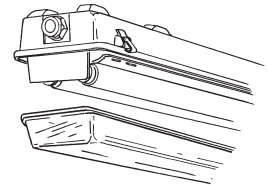 — Cable glands are not available with FD series.

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. Luminiare 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.

Compliancies 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

Lighting

LIGHTING: ENCLOSED AND GASKETED — AREA — FLUORESCENT

⊛Appleton®

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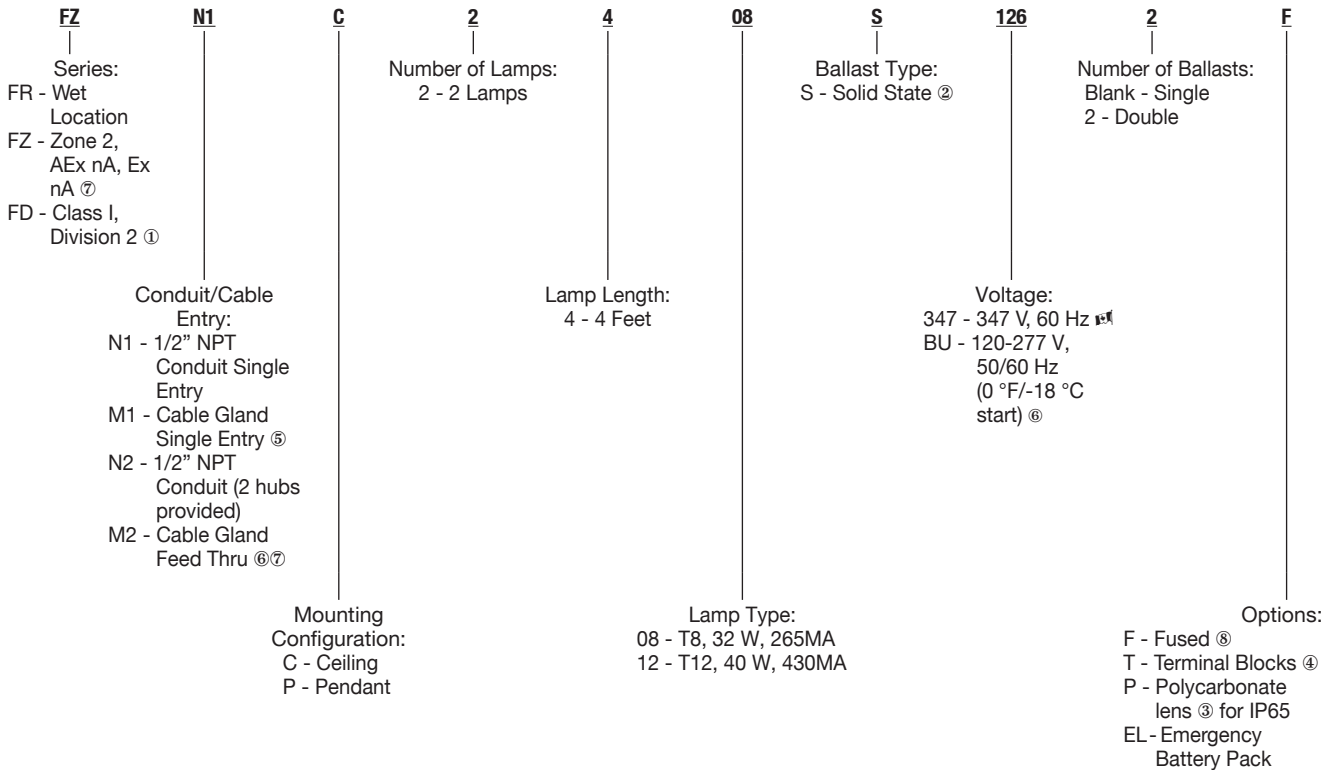
FR Series
Wet Locations
IP65 when used with optional polycarbonate lens

FZ Series
Class I, Division 2, Groups A, B, C, D
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

Order using catalog numbering guide below.

Catalog Numbering Guide For FR, FZ And FD Nonmetallic Fluorescent Lighting Fixtures

| FZ | N1 | C | 2 | 4 | 08 | S | 126 | 2 | F |

Series:
FR - Wet Location
FZ - Zone 2, AEx nA, Ex nA ⑦
FD - Class I, Division 2 ①

Conduit/Cable Entry:
N1 - 1/2" NPT Conduit Single Entry
M1 - Cable Gland Single Entry ⑤
N2 - 1/2" NPT Conduit (2 hubs provided)
M2 - Cable Gland Feed Thru ⑥⑦

Mounting Configuration:
C - Ceiling
P - Pendant

Number of Lamps:
2 - 2 Lamps

Lamp Length:
4 - 4 Feet

Lamp Type:
08 - T8, 32 W, 265MA
12 - T12, 40 W, 430MA

Ballast Type:
S - Solid State ②

Voltage:
347 - 347 V, 60 Hz ◧
BU - 120-277 V, 50/60 Hz (0 °F/-18 °C start) ⑥

Number of Ballasts:
Blank - Single
2 - Double

Options:
F - Fused ⑧
T - Terminal Blocks ④
P - Polycarbonate lens ③ for IP65
EL - Emergency Battery Pack

---

① Fixture is not available with M1 or M2 cable entry options
② Cold weather standard for T8.
③ Use polycarbonate lens for IP65 rating. Polycarbonate lens is standard on FZ Series.
④ Standard equipment for FZ series
⑤ Fixture will be supplied with a 5'/1.5 m length of #14/3 cord and 3 prong plug (120 V) pre-installed when ordered with cable gland. Fixture with cable gland can only be used with hook and chain mounting.
⑥ T8-RS only.
⑦ FZ Series fixtures are not UL Listed for Class I, Division 2 when used with cable glands. FZ Series fixtures are UL Classified for Class I, Zone 2 when used with cable glands.
⑧ Canadian Electrical Code does NOT allow fusing in hazardous locations ◧.
◧ CSA Certification only.

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

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

LIGHTING: ENCLOSED AND GASKETED — AREA — FLUORESCENT