ATX™ RE Series Recessed and Surface Mounting Fluorescent Luminaires

Standard and Emergency Back-Up. Increased Safety

ATEX/IECEx:
Zone 1 and 2 - 21 and 22
Ⓔx II 2 GD
IP66 - IK09/10

Applications

- Designed for flush or surface mounting; most specifically clean room environments where a seamless smooth ceiling is mandatory.
- Typical applications include: the food industry, chemical plants, pharmaceuticals and delicate electronic manufacturing such as the aerospace industry.
- Ideal for use in rigorous corrosive environments, involving water, dust and extreme temperature variations.
- Can be installed in hazardous areas designated as Zone 1 and 2 – 21 and 22.

Features

- One piece welded steel housing with integral frame to seal out contaminants.
- Allows recessed mounting in permanent ceilings from 55 mm to 130 mm (2.17 to 5.12 in).
- Frameless tempered 5 mm (1/4 in) thick lens. Lens secured to housing by internal metallic hinges and secured with captive 316L stainless steel screws, allowing for easy lamp replacement and fixture maintenance.
- Positive safety switch and Ex e battery with plug-in connector for safety and easy maintenance in hazardous locations.
- Designed for ease of installation and maintenance.
- Bi-pin G13 lampholder.
- Also available as surface mounting version.
- New ballast:
  — EOL (End Of Life) protection in accordance to the latest EN 60079-7 standard
  — Multi-tap 110 to 254 Vac/Vdc +/-10% 50/60 Hz
  — Two channel standard ballast (if one lamp fails the second lamp remains in operation)
  — Ex e plug-in connector for rapid and error free maintenance
  — Self test on 3 hours duration emergency version
  — High power factor electronic ballast (>0.95)
- Cable entries:
  — Three clearance holes for M20 cable gland supplied with M20 polyamide cable gland — cable diameter 6.5 to 14.5 mm (0.26 to 0.57 in) — and M20 polyamide blanking plug. *See Standard Cable Entry Accessories on following pages*.
  — One M6 earth stud.

Standard Materials

- Housing and integral frame: one piece, welded steel
- Safety lens: 5 mm (0.20 in) thick tempered
- Gasket: silicone, 4 lips, completely sealed and contained in the fixture
- Internal reflector: white polycarbonate multi-parabolic
- Cable gland and blanking plug: polyamide

Standard Finishes

- Housing and integral frame: white powder epoxy paint

Options

- 3 hours emergency version - Battery 6 V - 4 Ah. Add suffix -**E**.
- 1 hour 30 emergency (combined) - Battery 6 V - 7 Ah. Add suffix -**E1**.
- 3H Emergency (combined) - Battery 6 V - 7 Ah. . Add suffix -**E7**.
- Without safety switch. Add suffix -**N**.
- White painted steel internal reflector. Add suffix -**P**.
- 316L stainless steel housing and integral frame, natural finish. Add suffix -**S**.

4 x 18 W Surface Mounting

2 x 36 W Recessed

ATEX/IECEx Certifications and Compliances

- Certification Type: RE
  — Gas: Zones 1 and 2
    – Conforming to ATEX 94/9/CE: Ⓔx II2 G
    – Type of Protection: Ex de IIC/ Ex demb IIC (emergency version)
    – T-Rating: T6 to T4 (*See Table on following page*)
  — Dust: Zone 22
    – Conforming to ATEX 94/9/CE: Ⓔx II2 D
    – Type of Protection: Ex tD A21
    – Surface Temperature: T75 °C (T165 °F)
- Ambient Temperature: -20 °C ≤ Ta ≤ +55 °C (-4 °F ≤ Ta ≤+131 °F)
- CE Declaration of Conformity: 50276
- ATEX Certificate: LCIE 07 ATEX 6104
- IECEx Certificate: IECEx LCI 07.0019
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK09 or IK10 depending on version

EURASEC Certification

- EURASEC N° TC RU C-FR.ГБ05.B.00912

Other Certification

- INMETRO Certificate: BVC13.2672 ①

① *Inmetro certification available on special request only. Contact your local sales representative for more information.*

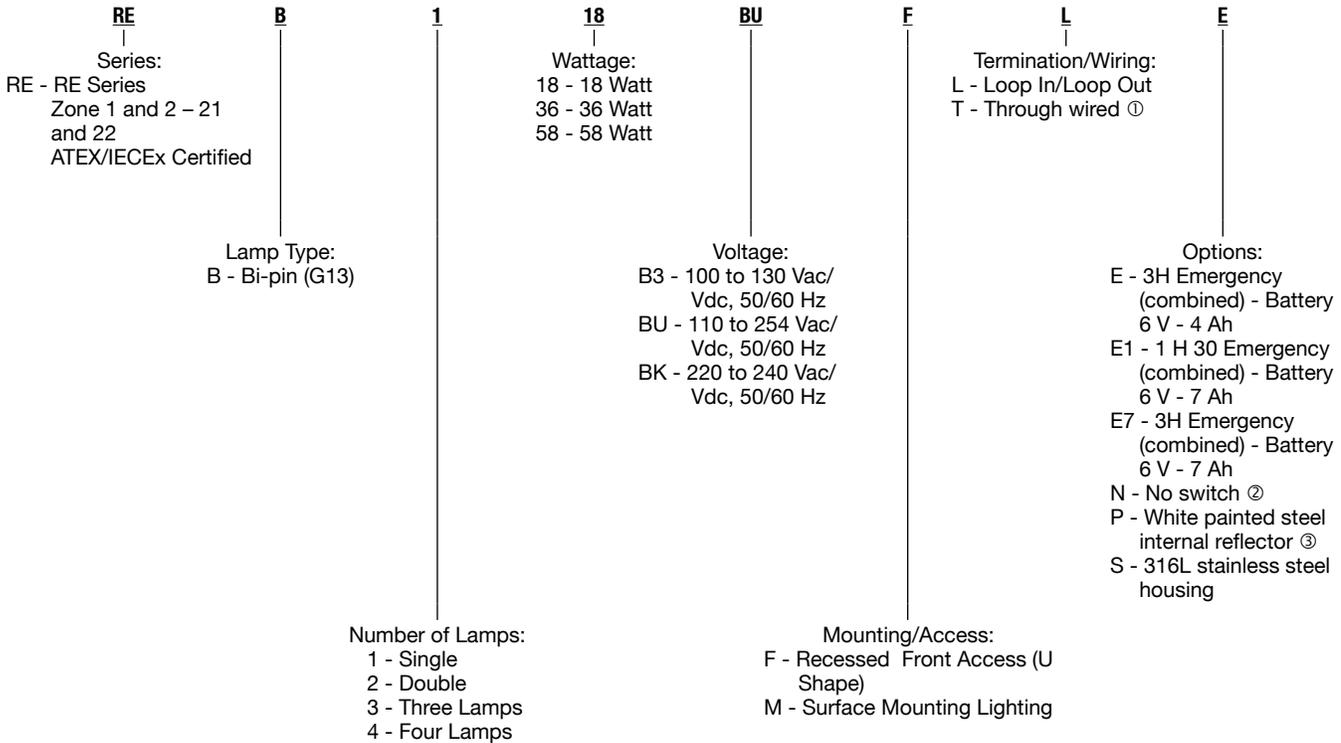# ATX™ RE Series Recessed and Surface Mounting Fluorescent Luminaires
Standard and Emergency Back-Up. Increased Safety

ATEX/IECEx:
 Zone 1 and 2 - 21 and 22
 ⟨Ex⟩ *II 2 GD*
 IP66 - IK09/10

Order using catalog numbering guide below or select catalog number from tables on following pages.

Catalog Numbering Guide — RE Series Recessed Fluorescent Luminaires

| RE | B | 1 | 18 | BU | F | L | E |

Series:
RE - RE Series
 Zone 1 and 2 – 21
 and 22
 ATEX/IECEx Certified

Lamp Type:
B - Bi-pin (G13)

Number of Lamps:
 1 - Single
 2 - Double
 3 - Three Lamps
 4 - Four Lamps

Wattage:
18 - 18 Watt
36 - 36 Watt
58 - 58 Watt

Voltage:
B3 - 100 to 130 Vac/
 Vdc, 50/60 Hz
BU - 110 to 254 Vac/
 Vdc, 50/60 Hz
BK - 220 to 240 Vac/
 Vdc, 50/60 Hz

Mounting/Access:
F - Recessed Front Access (U
 Shape)
M - Surface Mounting Lighting

Termination/Wiring:
L - Loop In/Loop Out
T - Through wired ①

Options:
E - 3H Emergency
 (combined) - Battery
 6 V - 4 Ah
E1 - 1 H 30 Emergency
 (combined) - Battery
 6 V - 7 Ah
E7 - 3H Emergency
 (combined) - Battery
 6 V - 7 Ah
N - No switch ②
P - White painted steel
 internal reflector ③
S - 316L stainless steel
 housing

① *T/W and Loop in/Loop out - 3 cores (single phase).*
② *Only for standard versions.*
③ *As standard for 18 W emergency version and 4 lamp version.*

EMERSON

ATX™ RE Series Recessed and Surface Mounting Fluorescent Luminaires
Standard and Emergency Back-Up. Increased Safety

ATEX/IECEx:
Zone 1 and 2 - 21 and 22
⟨Ex⟩ II 2 GD
IP66 - IK09/10

T Ratings

Version	Ambient Temperature					
	Ceiling Position			Wall Position		
	40 °C (104 °F)	50 °C (122 °F)	55 °C (131 °F)	40 °C (104 °F)	50 °C (122 °F)	55 °C (131 °F)
2 x 18 W ①	T6	T5	T5	T5	T5	T4
2 x 18 W Emergency ①	T5	T4	T4	T5	T5	T4
3 x 18 W	T5	T4	T4	T4	T4	T4
4 x 18 W	T5	T4	T4	T5	T4	T4
2 x 36 W ①	T5	T4	T4	T5	T4	T4
2 x 36 W Emergency ①	T5	T4	T4	T5	T4	T4
3 x 36 W	T4	T4	T4	T4	T4	T4
4 x 36 W	T5	T4	T4	T5	T4	T4
2 x 58 W ①	T4	T4	T4	T4	T4	T4
2 x 58 W Emergency ①	T4	T4	T4	T4	T4	T4
3 x 58 W	T4	T4	T4	T4	T4	T4
4 x 58 W	T4	T4	T4	T4	T4	T4

Termination and Wiring

- Terminal capacity: 4 mm² (0.006 in²) flexible or 6 mm² (0.009 in²) solid.
- Loop in/Loop out: One terminal block ②
    — Standard version:
    2 (L) + 2 (N) + 2 (PE)
    — Emergency version:
    2 (LP) + 2 (L) + 2 (N) + 2 (PE)
- Through wired: Two terminal blocks (one at each end) ②
    — Standard version:
    2 (L) + 2 (N) + 2 (PE)
    1 (L) + 1 (N) + 1 (PE)
    — Emergency version:
    2 (LP) + 2 (L) + 2 (N) + 2 (PE)
    1 (LP) + 1 (L) + 1 (N) + 1 (PE)

Standard Cable Entry Accessories

Version	Cable Gland	Blanking Plug	Nickel Plated Brass Locknut
Loop	1	1	3
Through	2	1	3

① *T Rating for single lamp version is the same as twin lamp version.*
② *PE: Earth; N: Neutral. L: Live. LP: Permanent Live for emergency version.*

Appleton ®

EMERSON

ATEX/IECEx:
Zone 1 and 2 - 21 and 22
Ⓔⓧ *II 2 GD*
IP66 - IK09/10

FLUORESCENT/AREA: ATEX/IECEx STANDARD AND EMERGENCY BACK-UP

Appleton

Recessed — 110/254 Vac/Vdc, 50/60 Hz — Front Access — White Painted Steel Housing

Version	Reflector	Wiring	Weight kg (lb)	Volume dm³ (in³)	Catalog Number ①②③④⑤⑥⑦
Standard Version — Bi-pin Lamps (G13)					
2 x 18 W	Polycarbonate	Loop	14 (30.86)	64 (3905.52)	**REB218BUFL**
		Through	14 (30.86)	64 (3905.52)	**REB218BUFT**
4 x 18 W	White Painted Steel	Loop	21 (46.30)	93 (5675.21)	**REB418BUFLP**
		Through	21 (46.30)	93 (5675.21)	**REB418BUFTP**
2 x 36 W	Polycarbonate	Loop	19 (41.89)	108 (6590.56)	**REB236BUFL**
		Through	19 (41.89)	108 (6590.56)	**REB236BUFT**
4 x 36 W	White Painted Steel	Loop	29 (63.93)	158 (9641.75)	**REB436BUFLP**
		Through	29 (63.93)	158 (9641.75)	**REB436BUFTP**
2 x 58 W	Polycarbonate	Loop	22 (48.50)	130 (7933.09)	**REB258BUFL**
		Through	22 (48.50)	130 (7933.09)	**REB258BUFT**
4 x 58 W	White Painted Steel	Loop	32 (70.55)	190 (11594.51)	**REB458BUFLP**
		Through	32 (70.55)	190 (11594.51)	**REB458BUFTP**
3 Hours Emergency Version — Bi-pin Lamps (G13)					
2 x 18 W	Polycarbonate	Loop	14 (30.86)	64 (3905.52)	**REB218BUFLEP**
		Through	14 (30.86)	64 (3905.52)	**REB218BUFTEP**
4 x 18 W	White Painted Steel	Loop	21 (46.30)	93 (5675.21)	**REB418BUFLEP**
		Through	21 (46.30)	93 (5675.21)	**REB418BUFTEP**
2 x 36 W	Polycarbonate	Loop	19 (41.89)	108 (6590.56)	**REB236BUFLE**
		Through	19 (41.89)	108 (6590.56)	**REB236BUFTE**
4 x 36 W	White Painted Steel	Loop	29 (63.93)	158 (9641.75)	**REB436BUFLEP**
		Through	29 (63.93)	158 (9641.75)	**REB436BUFTEP**
2 x 58 W	Polycarbonate	Loop	22 (48.50)	130 (7933.09)	**REB258BUFLE**
		Through	22 (48.50)	130 (7933.09)	**REB258BUFTE**
4 x 58 W	White Painted Steel	Loop	32 (70.55)	190 (11594.51)	**REB458BUFLEP**
		Through	32 (70.55)	190 (11594.51)	**REB458BUFTEP**

① *For surface mounting lighting, replace letter **F** with letter **M** in the 9th position; example: REB218BU**M**L.*
② *For 3 hours emergency version - Battery 6 V - 4 Ah, add suffix **E** to the end of the catalog number; example: REB218BUFL**E**.*
③ *For 1 hour 30 emergency (combined) - Battery 6 V - 7 Ah, add suffix **E1** to the end of the catalog number; example: REB218BUFL**E1**.*
④ *For 3H Emergency (combined) - Battery 6 V - 7 Ah, add suffix **E7** to the end of the catalog number; example: REB218BUFL**E7**.*
⑤ *For fixture without a safety switch, add suffix **N** to the end of the catalog number; example: REB218BUFL**N**.*
⑥ *For fixture with a white painted steel internal reflector, add suffix **P** to the end of the catalog number; example: REB218BUFL**P**.*
⑦ *For fixture with 316L stainless steel housing and integral frame and natural finish, add suffix **S** to the end of the catalog number; example: REB218BUFL**S**.*

EMERSON