

A.T.X.[®] FNES LED Series Self-Contained Emergency Lighting with Self-Test System

Zone 2 - 21 and 22

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Ⓢ II 2 D and II 3 GD
ATEX / IECEx
IP66/67 - IK10

Applications

- Provides adequate lighting and/or visual indication of access and exit routes during an evacuation in a hazardous environment.
- Can be installed in hazardous areas designated as Zone 2, 21 and 22.
- Typical applications include oil refineries, petrochemical plants, pulp, paper mills and silos.

Features

- Power supply 230 Vac 50/60 Hz.
- 1 hour duration (emergency).
- Non-maintained.
- Operates in any position.
- Battery pack.
 - Escape route lighting: 2.4 V - 1.5 Ah (2 cells - Nicd).
 - Space lighting: 7.2 V - 2.2 Ah (6 cells - NiMh).
- Open and close using an Allen key (size 10) or a 6 mm flat screwdriver.
- Connection to plug-in terminal block via 2 x 5 x 2.5 mm² terminals.
- Two M20 clearance holes supplied with one cable gland (dia. 6.5 to 14.5 mm), one blanking plug and two locknuts.
- Charge indicator by green LED (lifetime over 10 years).
- Automatic built-in self-test system (SATI) with memorization of tests indicated by LEDs.
- Using a microprocessor and an internal clock, the unit will carry out automatic tests.
- Weekly test: Lamp check duration 6 seconds.
- Quarterly test: Emergency operation and lamp check for 1 hour.
- Can be remotely controlled and checked without switching the mains off with remote control unit from Legrand (Catalog Number 03901) or URA (Catalog Number 095448 and 095450) manufacturers.
- The remote control unit installed in a safe area or inside a flameproof box allows manual ignition of all the units (max. 300 units) for visual inspection of their operation.
- Escape route lighting: 55 lumens, 0.50 wattage.
- Space lighting: 540 lumens, 0.95 wattage.

Standard Materials

- Body: fiberglass reinforced polyester
- Diffuser (hinged to body): polycarbonate
- Gasket: elastomer
- Fixing brackets: zinc plated steel, gray painted aluminum or 316 stainless steel
- Cable gland and blanking plug: polyamide
- Locknut: nickel-plated brass



FNES LED

Options

- Addressable versions:
 - Providing the regulatory control of the emergency lighting units and centralizing information coming from those units on a computerized management system.
 - Operating without any special line, communication between units and the control system is realized via mains-borne signals on the remote control line.
 - Capacity: one control system for 200 emergency lighting units.
 - Max. capacity: 1000 emergency lighting units with boosters.
- Addressable monitoring software, please consult factory.
- Low temperature application, please consult factory.

Certifications and Compliances

- Certification Type: FLn
- Zone 2
 - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 3 G
 - ATEX/IEC Protection: Ex nR II
 - T Rating: T6
- Zone 21 - 22
 - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 2 D
 - ATEX/IEC Protection: Ex tD A21 and Ex tD A22
 - Surface Temperature: T167 °F/ T75 °C
- Ambient Temperature: -40 °F/-40 °C to 131 °F/55 °C ①
- CE Declaration of Conformity: 50212 (Zone 2-22) and 50227 (Zone 21)
- ATEX Certificate: LCIE 03 ATEX 6072 (Zone 2-22), LCIE 02 ATEX 6067 (Zone 21)
- IECEx Certificate: IECEx LCI 04.0021 (Zone 2-22)
- Other Certifications: GOST
- Index of Protection (solid and liquid): IP66/67
- Impact Resistance (shock): IK10
- Ex standards: EN / IEC 60079-0; 60079-15/61241-0; 61241-1
- Product standards: EN / IEC 60598-1; 60598-2-22
- EMC standards: EN / IEC 55015; 61547
- Other standards: EN / IEC 60529 (IP); 62262 (IK)

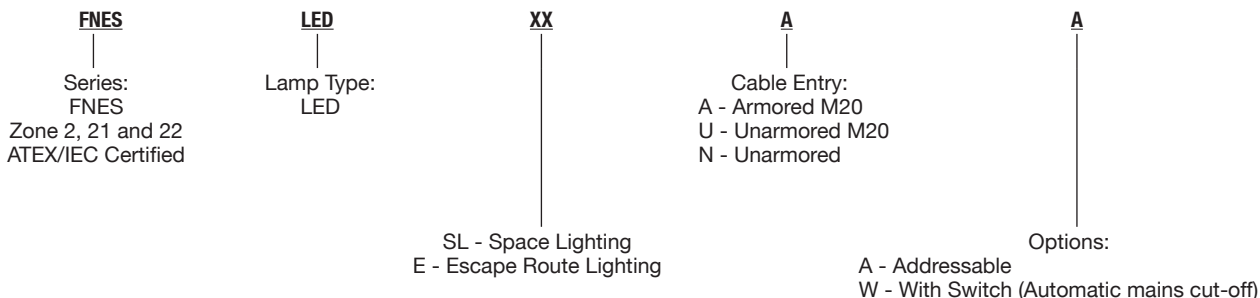
① Optimum operating temperature for battery is 23 °F/-5 °C to 86 °F/+30 °C.

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


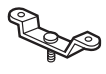

Catalog Numbering Guide



Unswitched Version – 1 hour duration - Non-maintained - Two M20 clearance entries

Type	Power and Lamp	Lumen Output	Weight (kg)	Volume (dm ³)	Pack	Catalog Number
Space Lighting	LED Array	540 lm	7.2	32.3	1	FNESLEDSLU
Escape Route Lighting		55 lm	7.2	32.3	1	FNESLEDEU

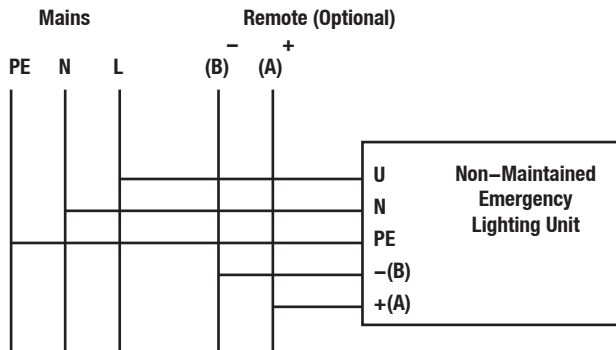
Accessories

	Description	Catalog Number
	Half Clamps Brackets - Set of Two	
	1-1/4" (dia. 42 mm) to 1-1/2" (dia. 49 mm)	
	Zinc plated steel	FEHC49Z
	316 stainless steel	FEHC49S
	2" (dia. 60 mm)	
	Zinc plated steel	FEHC60Z
	316 stainless steel	FEHC60S
	M8 Ring Bolts - Set of Two	
	Zinc plated steel	FERBM8Z
	Hinged Brackets - Set of two brackets for adjusting luminaire when wall-mounted	
	Aluminum (gray painted)	FEHBA
	316 stainless steel	FEHBS
	Brackets for Surface Mounting - Set of two	
	Aluminum (gray painted)	FESBA
	316 stainless steel	FESBS
	Fixing Brackets - Set of two brackets for ease of surface installation	
	Zinc plated steel	FEFBZ
	316 stainless steel	FEFBS

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Electrical Wiring Diagram



LED Indicator

Battery not Connected or Faulty

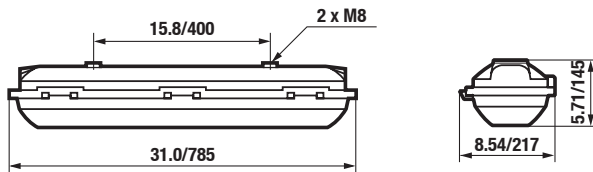
Main status	Non maintained													
	Space lighting							Escape route lighting						
Switched On														
Switched Off														

		Main power ON
Escape or spacelighting	SATI	
	Addressable	

- OFF
- ☀ ON (high lighting power)
- ☾ ON (low lighting power)

- OFF
- Flashing (white LED)
- △ Flashing (amber LED)

Dimensions (in/mm)



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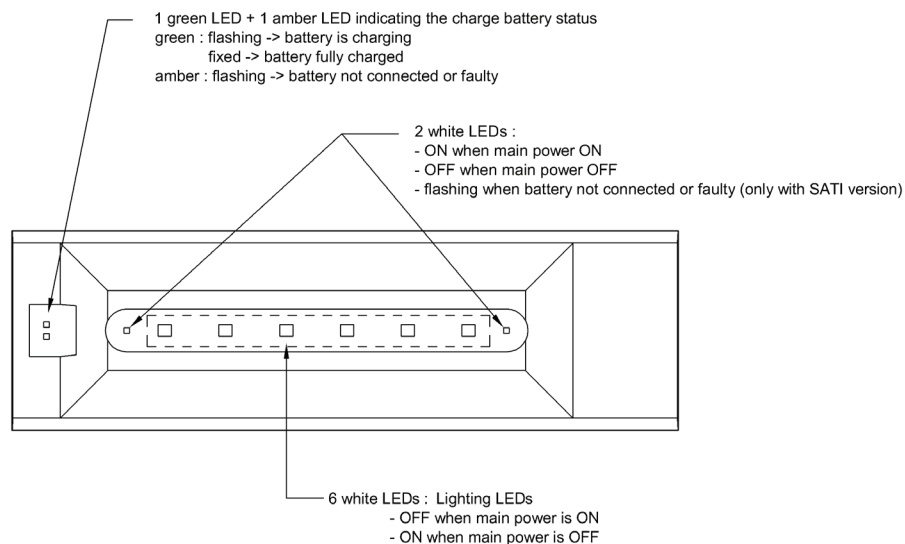
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LED Indicator

Space lighting :

(replace fluorescent version)



Escape lighting :

(replace incandescent version)

