

# Lighting: Emergency Lighting

FNES Series: Self-Contained Emergency Lighting with Self-Test System – Zone 2 - 21 & 22



1 x 8 W Fluorescent Version with Labels

### Compliance Data:

ATEX - IEC:



Zone 2 – 21 & 22	II 2 D and II 3 GD	ATEX	IECEX	CE
Ex nR II	T6	Ex tD A21	T75°C	IP66/67 – IK10

Electrical Data:

Power & Lamp Type	Voltage	Frequency	Duration	
1 x 8 W Fluorescent 2 x 3 W Incandescent	230 Vac	50/60 Hz	1 hour	

Operating Temperature:

-40°C to +55°C (Refer to page 113)

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### 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.
- Non-maintained.
- Operates in any position.
- 1 x 8 W fluorescent or 2 x 3 W incandescent lamp versions (lamps supplied).
- 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 mm<sup>2</sup> 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 4 nos yellow LEDs (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.

### Standard Material of Fixtures:

- Fiberglass reinforced polyester body.
- Polycarbonate diffuser hinged to body.
- Elastomer gasket.

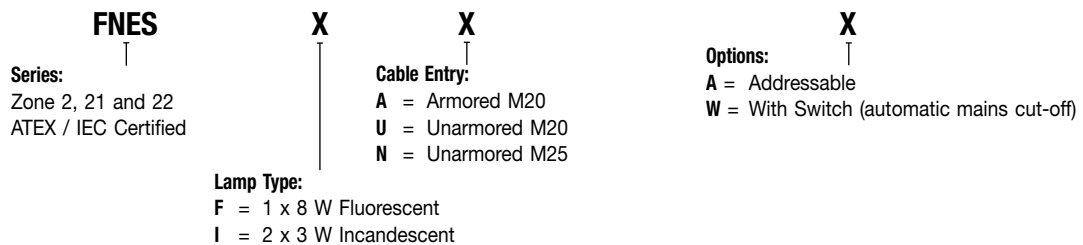
### Standard Material of Accessories:

- Zinc plated steel, gray painted aluminum or 316 stainless steel fixing brackets.
- Polyamide cable gland and blanking plug.
- Nickel-plated brass locknut.

### Options:

- Addressable versions.

### Catalog Number Logic:





### Ordering Information:

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

Type	Power & Lamp	Lumen Output	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
Space Lighting	1 x 8W fluorescent	415 lm	7.2	32.3	<b>FNESFU</b>	096398	1
Escape Route Lighting	2 x 3W incandescent	63 lm	7.2	32.3	<b>FNESIU</b>	096397	1

### Accessories:

Description	Catalog Number	Old Catalog Number
 <p><b>Half Clamps Brackets</b> - Set of Two 1-1/4" (dia. 42 mm) to 1-1/2" (dia. 49 mm) Zinc plated steel 316 stainless steel</p>	<b>FEHC49Z</b>	096593
	<b>FEHC49S</b>	096793
<p>2" (dia. 60 mm) Zinc plated steel 316 stainless steel</p>	<b>FEHC60Z</b>	096593
	<b>FEHC60S</b>	096591
 <p><b>M8 Ring Bolts</b> - Set of Two Zinc plated steel</p>	<b>FERBM8Z</b>	096594

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Zone 2 - 21 & 22






⊕ II 2 D and II 3 GD

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LIGHTING

### Accessories – Continued:

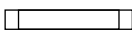

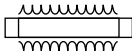
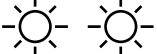
Description	Catalog Number	Old Catalog Number
 <b>Hinged Brackets</b> - Set of two brackets for adjusting luminaire when wall-mounted Aluminum (gray painted) 316 stainless steel	<b>FEHBA</b>	096598
	<b>FEHBS</b>	096574
 <b>Brackets for Surface Mounting</b> - Set of two Aluminum (gray painted) 316 stainless steel	<b>FESBA</b>	096597
	<b>FESBS</b>	096590
 <b>Fixing Brackets</b> - Set of two brackets for ease of surface installation Zinc plated steel 316 stainless steel	<b>FEFBZ</b>	096596
	<b>FEFBS</b>	096589
<b>Spare Lamps</b>  8 W fluorescent lamp G5  3 W incandescent, BA9S 3.6 V – 1 A	<b>LF008G5</b>	094990
	<b>LI003BA9S</b>	094995

### Compliances:

Hazardous Area	Gas	Dust
Certification Type	FLn	
Zones	2	21–22
Conforming to ATEX 94/9/CE	CE 0081 ⊕ II 3 G	CE 0081 ⊕ II 2 D
Symbol of Protection ATEX	Ex nR II	Ex tD A21
Symbol of Protection IEC		
T Rating	T6	–
Surface Temperature	–	T75°C
Ambient Temperature	-40°C to +55°C (1)	
CE Declaration of Conformity	50212 (Zone 2 - 22) 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	

(1) Optimum operating temperature for battery is -5°C to +30°C

### Emergency Function Diagram:

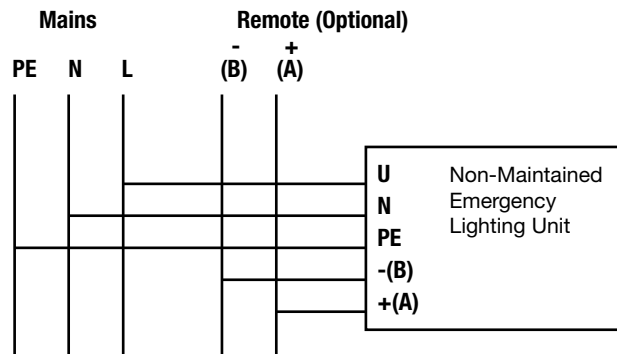
Mains Status	Non-maintained	
	1 x 8 W Fluorescent	2 x 3 W Incandescent
Mains Switched ON		
Mains Switched OFF		

### Standards:

<b>Ex standards</b>	EN / IEC 60079-0; 60079-15; 61241-0; 61241-1
<b>Product standards</b>	EN / IEC 60598-1; 60598-2-22
<b>EMC standards</b>	EN / IEC 55015; 61547
<b>Other standards</b>	EN / IEC 60529 (IP); 62262 (IK)

### Technical Data:

#### Electrical wiring diagram



### Dimensions (mm):

