LED/ATEX/IECEx BULKHEAD



ATX™ FDBAES LED Series Self-Contained Emergency Lighting Units

Flameproof

ATEX/ IECEx: Zone 1 and 2 - 21 and 22 ⊗ II 2 GD IP66/68 - IK08

Applications

- Provides adequate lighting and/or visual indication of access on exit routes during an evacuation in a hazardous environment.
- Can be installed in hazardous areas designated as Zone 1 and 2 - 21 and 22.
- Typical applications include oil refineries, petrochemical plants, pulp and paper mills.

Features

All versions:

- Power supply 230 Vac, 50/60 Hz.
- 1 hour duration (emergency).
- Threaded access cover with O-ring seal.
- Can be maintained in hazardous areas as an internal switch cuts off battery supply automatically once the cover is unscrewed and opened.
- 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) - Flameproof
- Padlockable switch is available on switched models which individually cuts off power supply and remote control.
- Charge indicator by 1 green LED (life time over 10 years).
- Operates in any position.
- Connection to plug-in terminal block via 2 x 5 x 2.5 mm² (0.003 x 0.008 x 0.004 in2) terminals.
- Supplied with two fixing lugs.
- 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 during 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 (maximum 300 units) for visual inspection of their operation.
- Escape route lighting: 55 lumens, 0.50 wattage. Space lighting: 540 lumens, 0.95 wattage.

Addressable versions:

- Operates without additional control lines. Communication between units and the control system is realized via mains borne signals that utilize the existing electrical wiring.
- Standard control system capacity: one control system for up to 200 emergency lighting units.
- Optional increased control system capacity: booster (repeater unit) is used to increase the length of the network allowing up to 1000 emergency lighting units to be on one control system. This allows for the use of a single computer to centralize the management of the facilities emergency lighting system. For more information, please contact your local sales representative.

Standard Materials

- · End caps and cover: aluminum
- O-ring seal: Nitrile
- Lens: tempered borosilicate glass
- Fixing brackets: zinc plated steel or 316 stainless steel
- Accessories: white painted galvanized steel
- Guard: zinc plated steel



Options

- Addressable monitoring software, please consult your local sales representative.
- Low temperature application, please consult your local sales representative.

ATEX/IECEx Certifications and Compliances

- · Certification Type: FLd
 - Gas: Zone 1 2
 - Conforming to ATEX 94/9/CE:
 II 2 G
 - Type of Protection: Ex d IIC
 - Temperature class: T6
 - Dust: Zone 21 22
 - Conforming to ATEX 94/9/CE: 🖾 II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C (T176 °F)
- Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F) ①
- CE Declaration of Conformity: 50203
- ATEX Certificate: LCIE 97/ ATEX 6012
- IECEx Certificate: IECEx LCI 04.0018
 - Index of Protection according EN/IEC 60529: IP66/68
- Impact Resistance (shock): IK08
- Internal Volume: > 2 dm3 (122 in3) 2 liters
- Conforming to NF AEAS

EURASEC Certification

• EURASEC N° TC RU C-FR.ГБ05.В.00912

Other Certification

• INMETRO Certificate: BVC 11.0492 ②

+5411 4298-0184

Related Products

• For labels see Labels for Emergency Lighting Units, ATX Self-Adhesive Signaling Labels for Emergency Lighting Units.

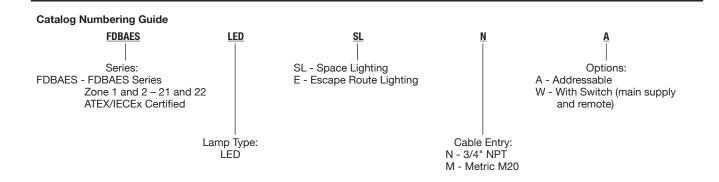




- ① Optimum operating temperature for battery is -5 °C to +30 °C (+23 °F to +86 °F)
- ② Inmetro certification available on special request only. Contact your local sales representative for more information.

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ATEX/IECEx: Zone 1 and 2 - 21 and 22 II 2 GD



Туре	Lamp	Lumen Output	Cable Entries	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Unswitched Versi	on — 1 hour dura	tion — Non-mainta	ined — Two thread	led cable entries	with one blanking	plug
Cooo Lighting	I ED Arrest	540 lm ① -	3/4" NPT	No. No.	27.1 (2264.0)	FDBAESLEDSLN
Space Lighting	LED Array	540 IIII ①	M20	6.1 (0.32)	37.1 (2264.0)	FDBAESLEDSLM
Escape Route	LED Assess	55 lm ② -	3/4" NPT	0.4 (0.00)	07.4 (202.4.2)	FDBAESLEDEN
Lighting	LED Array		M20	8.1 (0.32)	37.1 (2264.0)	FDBAESLEDEM
Switched Version	- 1 hour duration	n — Non-maintaine	ed — One threaded	l cable entry		
Switched Version Space Lighting Escape Route Lighting	LED Array	5 4 0 lm	3/4" NPT	10.0 (0.20)	40.4 (2465.4)	FDBAESLEDSLNW
		540 lm —	M20	10.0 (0.39)		FDBAESLEDSLMW
Escape Route	LED Array	55 lm -	3/4" NPT	10.0 (0.39)	40.4 (2465.4)	FDBAESLEDENW
Lighting			M20			FDBAESLEDEMW
Addressable and	Unswitched Versi	on — 1 hour durati	on — Non-maintai	ned — Two threa	ded cable entries	with one blanking plug
Space Lighting	LED Array	540 lm	3/4" NPT	8 1 (0 32)	37.1 (2264.0)	FDBAESLEDSLNA
Space Lighting	LLD Allay	340 IIII	M20	0.1 (0.32)	37.1 (2204.0)	FDBAESLEDSLMA
Escape Route	LED Array	55 lm -	3/4" NPT	8.1 (0.32)	37.1 (2264.0)	FDBAESLEDENA
Lighting			M20			FDBAESLEDEMA
Addressable and	Switched Version	1 hour duration	- Non-maintaine	d — One threade	d cable entry	
Space Lighting	LED Array	540 lm	M20	10.0 (0.39)	40.4 (2465.4)	FDBAESLEDSLMAW
Escape Route Lighting	LED Array	55 lm	M20	10.0 (0.39)	40.4 (2465.4)	FDBAESLEDEMAW

- ① Value measured after 1 hour duration required value by standard is 400 lm.
- ② Value measured after 1 hour duration required value by standard is 45 lm.



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Α	CC	es	S	O	rı	е	s

Accessories	Decaviotion	Catalag Number				
	Description	Catalog Number				
4	Reflector					
	White painted galvanized steel	FDER5G				
·	Protective Guard					
	Zinc plated steel	FDPG5Z				
	Fixing Brackets – set of two brackets for ease of surface installation					
	Zinc plated steel	FDFBZ				
	316 stainless steel	FDFBS				
	Surface Mounting Brackets – set of two brackets for ease of installation					
	Zinc plated steel	FDSBZ				
	316 stainless steel	FDSBS				
	Half Clamps – set of two					
	Zinc plated steel versions:					
_	Diameter for 1-1/4 to 1-1/2" pole: 42 mm (16.65 in) to 49 mm (1.93 in)	FDHC49Z				
	Diameter for 2" pole: 60 mm (2.36 in)	FDHC60Z				
-	316 stainless steel versions:					
	Diameter for 1-1/4 to 1-1/2" pole: 42 mm (16.65 in) to 49 mm (1.93 in)					
	Diameter for 2" pole: 60 mm (2.36 in)	FDHC49S				
	Fall Prevention Kit	FDHC60S				
	1.20 m (3.94 ft) stainless steel chain	FDSCS				





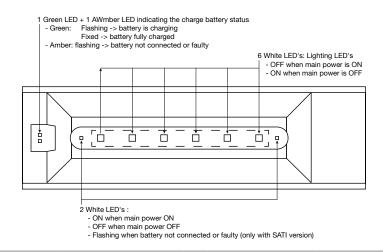
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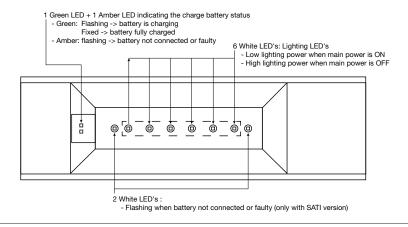
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LED Indicator

Space Lighting — Replaces Fluorescent Version



Escape Lighting — Replaces Incandescent Version



Main Status	Non Mai	ntained
Main Status	Space Lighting	Escape Route Lighting
Switched On	☆・・・・ ◆	• xxxxx •
Switched Off	• * * * * * * * * •	• * * * * * * * * *
• OFF		
☼ ON (high light)	hting power)	
X ON (low ligh	nting power)	
270		

Battery not Conr	nected	Main Power ON					
or Faulty	S	Space or Escape Route Lighting					
SATI		. A	• •	• •	• •	۵	
Addressab	le	<u>.</u> •	• •	• •	• •	•	
• OFF							
ON - Flashing - White LED							
△ ON – Flas	hing — Amber L	.ED					



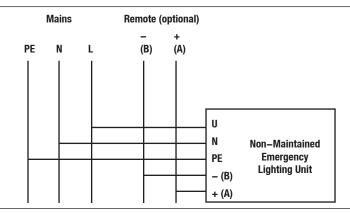




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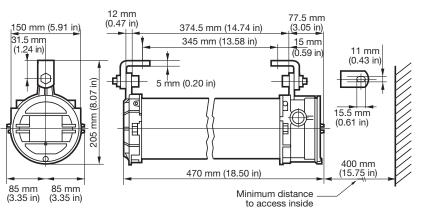
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Electrical Wiring Diagram



Dimensions in Millimeters (Inches)

Unswitched Versions



Switched Versions

