Flameproof

Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)

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 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.

Certifications and Compliances

♦ ATEX/IECEx Certification

- · 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
 - Ambient Temperature: -40 °C to +55 °C 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 (2 liters)
 - Conforming to NF AEAS

♦EURASEC Certification

— EURASEC N° TC RU C-FR.Гб05.В.00912

♦ Others Certification

INMETRO Certificate: BVC 11.0492

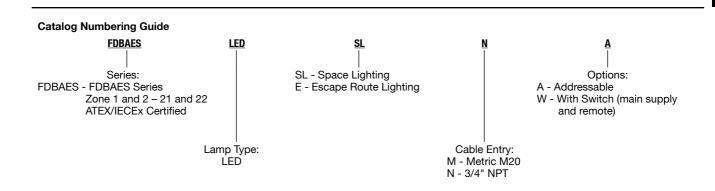
Related Products

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



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Туре	Lamp	Lumen Output	Cable Entries	Weight kg	Volume dm³	Catalog Number
Unswitched Ver	sion — 1 hou	r duration —	Non-maintained	Two threa	ded cable entries with	one blanking plug
Space Lighting LED Array	540 lm ① -	M20	8.1	37.1	FDBAESLEDSLM	
	540 IIII U	3/4" NPT	8.1	37.1	FDBAESLEDSLN	
Escape Route LED Ar Lighting	LED Assess	55 les (2)	M20	8.1	37.1	FDBAESLEDEM
	LED Array	55 lm ②	3/4" NPT	8.1	37.1	FDBAESLEDEN
Switched Version	on — 1 hour d	uration — No	n-maintained —	One threade	d cable entry	
0 1	LEDA	540 La	M20	10	40.4	FDBAESLEDSLMW
Space Lighting LED Array	540 lm	3/4" NPT	10	40.4	FDBAESLEDSLNW	
Escape Route	150.4		M20	10	40.4	FDBAESLEDEMW
Lighting	LED Array	55 lm	3/4" NPT	10	40.4	FDBAESLEDENW
Addressable an	d Unswitched	l Version – 1	hour duration —	Non-mainta	ined — Two threaded o	cable entries with one blanking plug
0	LEDA	540 les	M20	8.1	37.1	FDBAESLEDSLMA
Space Lighting LED Array	540 lm	3/4" NPT	8.1	37.1	FDBAESLEDSLNA	
Escape Route			M20	8.1	37.1	FDBAESLEDEMA
Lighting LED Arra	LED Array	55 lm	3/4" NPT	8.1	37.1	FDBAESLEDENA
Addressable an	d Switched V	ersion — 1 ho	our duration — No	on-maintaine	ed — One threaded cab	ole entry
Space Lighting	LED Array	540 lm	M20	10	40.4	FDBAESLEDSLMAV
Escape Route	LED Array	55 lm	M20	10	40.4	FDBAESLEDEMAW



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

Shaded catalog numbers are normally stocked items. All other items are made to order.

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Accessories

	Description	Catalog Number
	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
$\overline{}$	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:	
	For 42 mm to 49 mm pole (1-1/4 to 1-1/2" tube)	FDHC49Z
	For 60 mm pole (2" tube)	FDHC60Z
	316 stainless steel versions:	
	For 42 mm to 49 mm pole (1-1/4 to 1-1/2" tube)	FDHC49S
	For 60 mm pole (2" tube)	FDHC60S
	Fall Prevention Kit	
	1.20 m stainless steel chain	FDSCS

Shaded catalog numbers are normally stocked items. All other items are made to order.

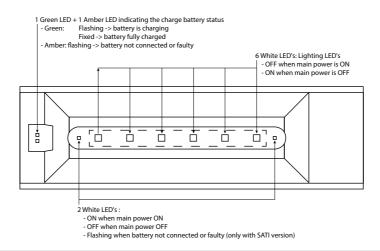


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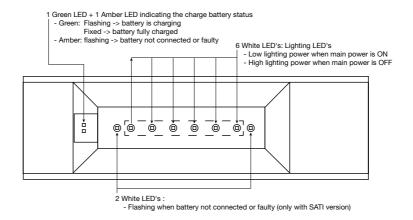
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LED Indicator

Space Lighting — Replaces Fluorescent Version



Escape Lighting — Replaces Incandescent Version



Main Status	Non Maintained			
Main Status	Space Lighting	Escape Route Lighting		
Switched On	*••••*	• aaaaaa •		
Switched Off	• * * * * * * * * •	• * * * * * * * •		

OFF			
OH			

ON (high lighting power)

M ON (low lighting power)

Battery not Connected	Main Power ON			
or Faulty	Space or Escape Route Lighting			
SATI	. . • • • •			
Addressable	. · · · · · · ·			

OFF

△ ON — Flashing — White LED

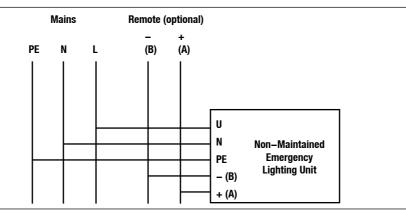
△ ON — Flashing — Amber LED



Flameproof

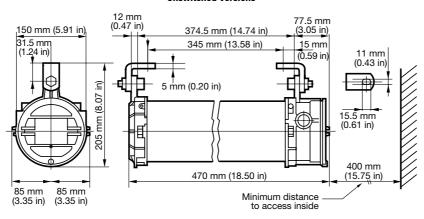
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Electrical Wiring Diagram



Dimensions in Millimeters (Inches)

Unswitched Versions



Switched Versions

