Flameproof. Fluorescent

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 emergency 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

- Power supply from 110 to 240 Vac 50/60 Hz versions.
- 3-hour duration.
- · Threaded access cover with O-ring seal.
- · Operates in any position.
- 8 W Fluorescent (1 or 2 lamps supplied).
- Charge indicator by 1 red LED (life time over 10 years).
- Termination 3 or 4 x 2.5 mm² (0.005 or 0.006 x 0.004 in²) terminals.
- Supplied with two fixing lugs.

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

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: W 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)
- 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

EURASEC Certification

• EURASEC N° TC RU C-FR. ГБ05.B.00912

Other Certification

• INMETRO Certificate: BVC11.0492 ①



2 x 8 W Fluorescent Sustained



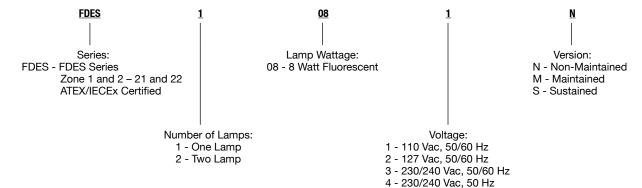


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Order using catalog numbering guide below or select catalog number from tables on following pages.

Catalog Numbering Guide - FDES Series Self-Contained Emergency Units



3 Hour Duration — Two M20 Threaded Cable Entries With One M20 Blanking Plug

Туре	Lumen Output	Voltage	Frequency	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
1 x 8 W Fluorescent Non-Maintained	230 lm	230/240 Vac	50/60 Hz	7.8 (17.20)	36 _ (2196.9)	FDES1083N
		127 Vac	50/60 Hz			FDES1082N
		110 Vac	50/60 Hz			FDES1081N
		220 Vac	60 Hz		_	_
1 x 8 W Fluorescent Maintained	180 lm	230/240 Vac	50/60 Hz	7.8 (17.20)	36 (2196.9)	FDES1084M
		127 Vac	50/60 Hz			FDES1082M
		110 Vac	50/60 Hz			FDES1081M
		220 Vac	60 Hz			_
2 x 8 W Fluorescent Sustained	230 lm	230/240 Vac	50 Hz	7.8 (17.20)	36 (2196.9)	FDES2084S
		220 Vac	60 Hz			-



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Accessories and Replacement Parts

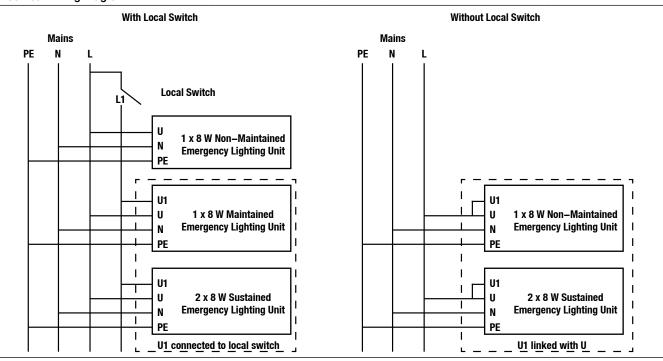
	Description	Catalog Number
A	Reflector	
	White painted galvanized steel	FDER1G
	Protective Guard	
	Zinc plated steel	FDPG1Z
	Fixing Brackets: Set of two for ease of surface installation	
	Zinc plated steel	FDFBZ
	316 stainless steel	FDFBS
	Surface Mounting Brackets: Set of two	
	Zinc plated steel	FDSBZ
	316 stainless steel	FDSBS
<u>A</u>	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)	FDHC49S
	Diameter for 2" pole: 60 mm (2.36 in)	FDHC60S
	Spare Lamps	
	8 W fluorescent G5	LF008G5
	Fall Prevention Kit	
	1.20 m (3.94 ft) stainless steel chain	FDSCS



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Emergency Function Diagram

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		1 x 8 W M	aintained	2 x 8 W Sustained					
Mains	1 x 8W Non–Maintained	Local Switch OFF or No Link	Local Switch ON or Link Present	Local Switch OFF or No Link	Local Switch ON or Link Present				
Switched ON									
Switched OFF									

Dimensions in Millimeters (Inches)

