

pathfinder

LED central battery central testing

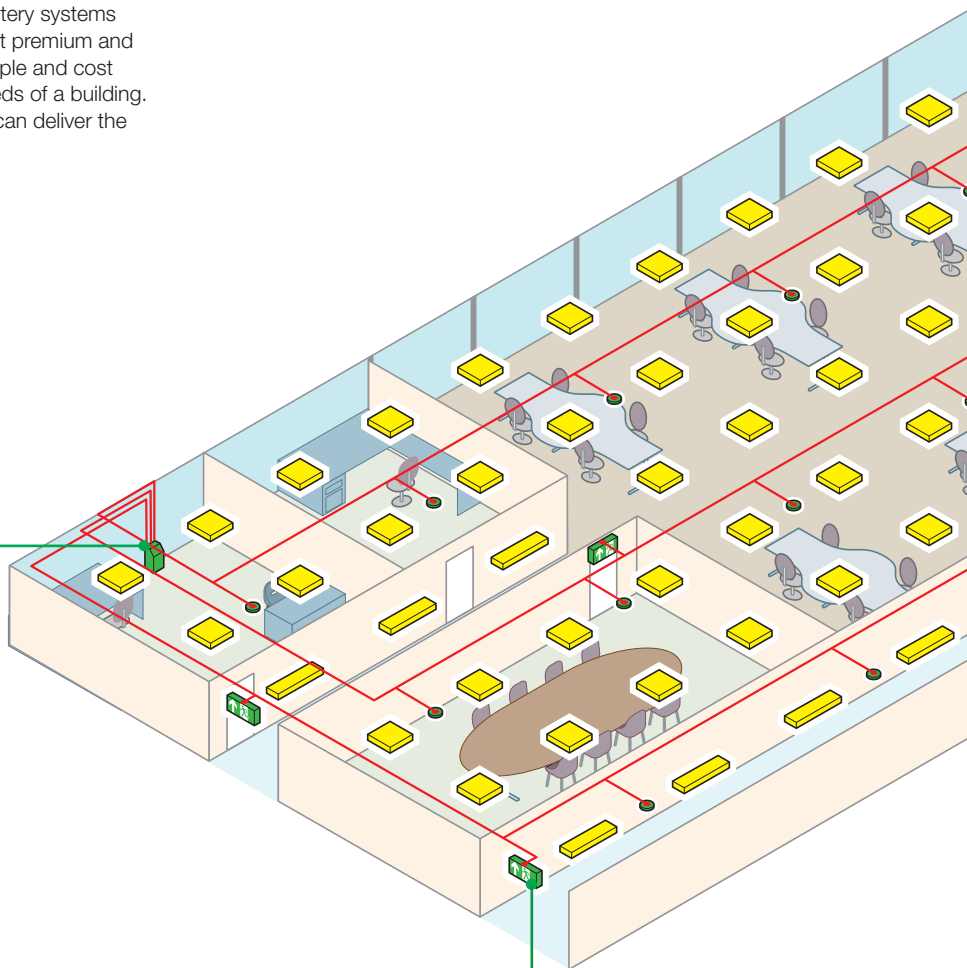
> weblink > **PATH**

Application

Pathfinder is a self contained central battery LED emergency lighting system. As Pathfinder is a dedicated emergency system it can be used to create an optimum emergency lighting scheme. Central battery systems that run luminaires via change-over relays, often have a cost premium and lead to overlit spaces with poor uniformity. Pathfinder is simple and cost effective to install, and is scalable to meet the changing needs of a building. This combined with its simple testing regime means that it can deliver the lowest cost of ownership of any emergency system.



Pathfinder central battery control unit



Why use LED's?

LED's have many advantages over traditional emergency lighting systems.

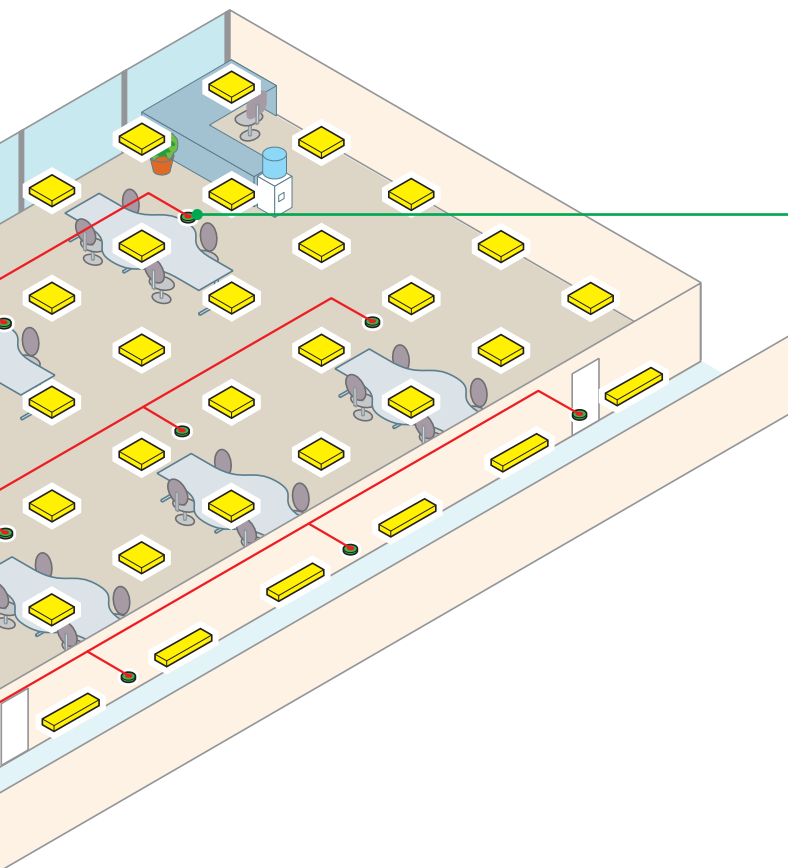
Their low energy consumption means that an entire system can be powered by a single cabinet of batteries, rather than the room required for fluorescent systems.

They are robust and have a much longer life than traditional lamps.

Because of their compact size, LED emergency luminaires are much less intrusive so can be used where architectural integration is key.

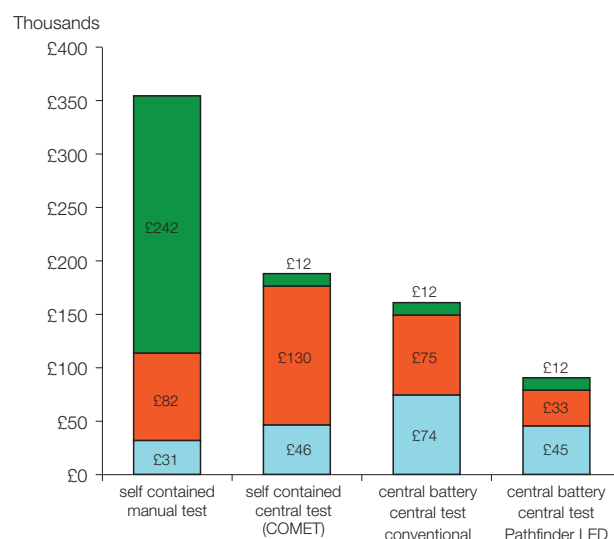


Pathfinder LED exit sign



Pathfinder emergency LED

Full life cycle costs based upon 300 lighting points over a 30 year cycle



- Initial installed cost – includes luminaires, FP200 cable where required, central system components, batteries and installation labour
- Through life planned maintenance costs including replacement of batteries and electronics at end of rated life
- Cost to administer emergency testing

Lowering the cost of ownership

- Self contained emergency lighting with an individual battery pack and inverter in each luminaire can offer the lowest installed cost for an emergency lighting scheme, however there are two issues which can make this solution very expensive when considering full life cycle cost of the building.
 - Manual testing via key switches is labour intensive and can be unreliable
 - A four year battery life requires frequent maintenance and replacement
- Central testing systems such as COMET can dramatically reduce the cost of emergency testing compared to manual testing, however maintenance and replacement of self contained batteries can still prove expensive.
- Central battery systems can significantly reduce the cost of battery maintenance and replacement due to ease of access.
- Pathfinder is a central battery and central testing system which offers solutions to these issues. Utilising low energy LEDs can offer the lowest installed cost and optimise full life cycle cost. The battery life capacity is only 5% of that required for a conventional central battery system.

TO SPECIFY

Central battery, central test LED emergency lighting system. Fully addressable LED emergency lighting points. Control unit with programmable interface – as Whitecroft Lighting PATHFINDER

Specification

The Pathfinder emergency lighting system is a class 1 protection supply device for operating and monitoring up to 80 emergency LED luminaires. The system uses addresses to allow identification and monitoring of individual luminaires.

The self contained unit incorporates all the control electronics and lead acid batteries for ease of installation. The front panel has indicators and LCD display for clear status of panel and LEDs. All control, administration, monitoring and testing can be performed through the front panel or remotely via a PC.

Control Panels



PFDPANEL12AH
PFDPANEL24AH



PFDPANEL48AH

Body

- IP20 power coated steel construction, wall mounted

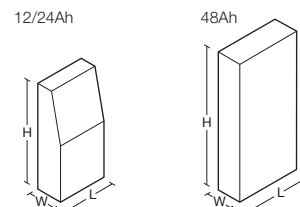
Electrical

- Input voltage 230V AC +/- 10%
- Ambient -5 to +30°C
- Final circuits x 4
- 3A max per final circuit
- Output voltage 24V DC

ORDER CODES

LED Control Panel	Maximum LED Luminaires	
Central Battery Control Panel 12Ah Capacity	20	PFDPANEL12AH
Central Battery Control Panel 24Ah Capacity	40	PFDPANEL24AH
Central Battery Control Panel 48Ah Capacity	80	PFDPANEL48AH

DIMENSIONS



Version	L	W	H	KG
PFDPANEL12Ah	235	117	466	15.0
PFDPANEL24Ah	235	117	630	25.7
PFDPANEL48Ah	400	170	800	56.5

LED Head



Body

- Cast aluminium body and integral heat sink
- Powder coat white or silver options
- Spring retaining clips for ceilings up to 16mm

Electrical

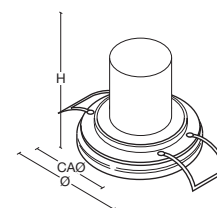
- Input voltage 24V DC
- Ambient -15 to +50°C
- 3W LED
- 100 lumens

ORDER CODES

LED Head

Recessed Emergency LED Silver Body – 3W	PFDRELEDS
Recessed Emergency LED White Body – 3W	PFDRELEDW

DIMENSIONS



Ø	H	CAØ	KG
55	50	43	0.1

LED Exit Sign



Body

- Extruded aluminium body housing electronics and LEDs
- Back lit legend symbol, viewing distance 16m

Electrical

- Input voltage 24V DC
- Ambient -15 to +50°C
- 4 x 1W LED



Wall mount



Ceiling mount

ORDER CODES

LED Exit Sign

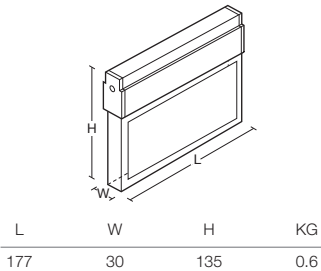
4 x 1W LED	Ceiling Mounted	PFDCEILING
4 x 1W LED	Wall Mounted	PFDWALL
4 x 1W LED	Suspended	PFDSUSPENDED

Options

DOWN LEGEND	SINGLE SIDED	PFDLPSSD
UP LEGEND	SINGLE SIDED	PFDLPSSU
LEFT LEGEND	SINGLE SIDED	PFDLPSSL
RIGHT LEGEND	SINGLE SIDED	PFDLPSSR
DOWN LEGEND	DOUBLE SIDED	PFDLPDSD
UP LEGEND	DOUBLE SIDED	PFDLPDSU
TO SIDE LEGEND	DOUBLE SIDED	PFDLPDST

Note: Legends to be ordered separately

DIMENSIONS



LED Exit Bulkhead



Body

- IP54 polycarbonate construction
- Cable entry top and rear
- Viewing distance 30m

Electrical

- Input voltage 24V DC
- Ambient -15 to +50°C
- 3 x 1W LED



Clear cover

ORDER CODES

LED Exit Bulkhead

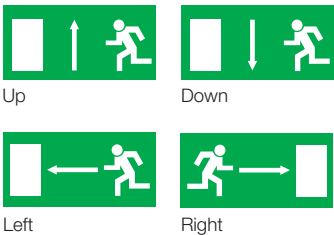
3 x 1W LED	Wall Mounted	PFDEXIT
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Options

DOWN LEGEND	PFDICOVD
UP LEGEND	PFDICOVU
LEFT LEGEND	PFDICOVL
RIGHT LEGEND	PFDICOVR
CLEAR COVER	PFDICOVC

Note: Legends to be ordered separately

LEGENDS



DIMENSIONS

