

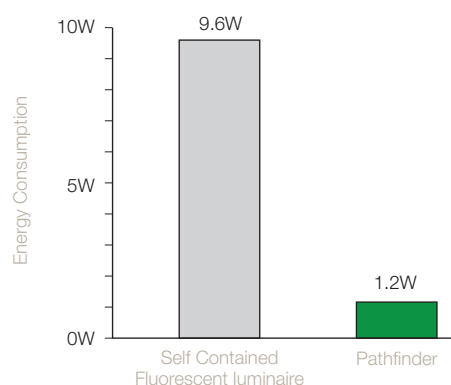


Pathfinder is a self contained central battery LED emergency lighting system designed to create the optimum emergency lighting scheme.

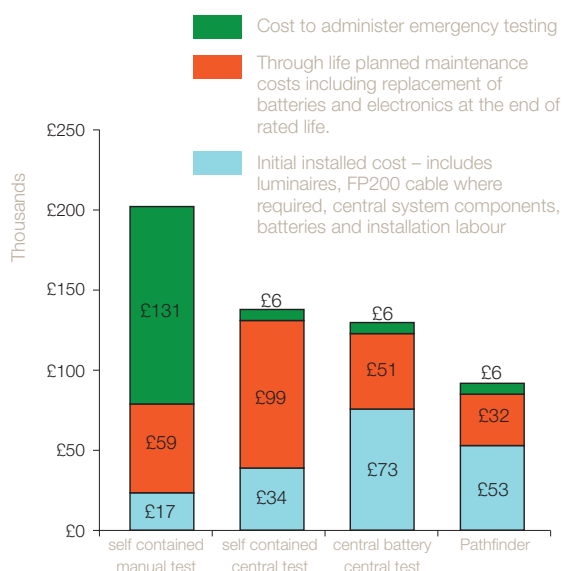


Driving Down Energy Consumption

LEDs have many advantages over traditional emergency lighting systems. Low energy consumption and a 50,000 hour life means that Pathfinder will dramatically reduce your through life maintenance and running costs. It is not generally recognised that integral emergency luminaires can add significantly to the overall energy consumption of a lighting installation. The constant trickle charge required to maintain emergency batteries can account for up to 14% of the luminaires overall energy consumption. This parasitic load can be reduced dramatically by using Pathfinder, as the extremely low energy consumption requires only a fraction of the power to charge.



Energy consumption of an emergency luminaire



Full Life Cycle costs based upon 300 lighting points over a 25 year cycle

Lowest 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 the solution very expensive over the full life cycle of an installation:

- 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 can dramatically reduce the cost of emergency testing compared to manual testing, however maintenance and replacement of self contained batteries is still expensive.

Conventional central battery central test systems can significantly reduce the cost of battery maintenance and replacement due to ease of access.

Pathfinder LED central battery central test offers the lowest energy and life cycle cost solution. Low energy consumption means battery life capacity is only 5% of that 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

the pathfinder system

Pathfinder is a self contained, low power supply, central battery LED emergency lighting system. The system is capable of conducting automatic testing in accordance with BS5266 / EN50172 and contains a non volatile memory able to store up to 2,000 test events.

As Pathfinder is a dedicated emergency system it can be used to create an optimum emergency lighting scheme, that is simple and cost effective to install and is scalable to meet the changing needs of a building.

With simple and efficient testing regimes, utilising long life, low maintenance LEDs combined with cost effective installation, Pathfinder will deliver the lowest cost of ownership of any emergency system on the market today.

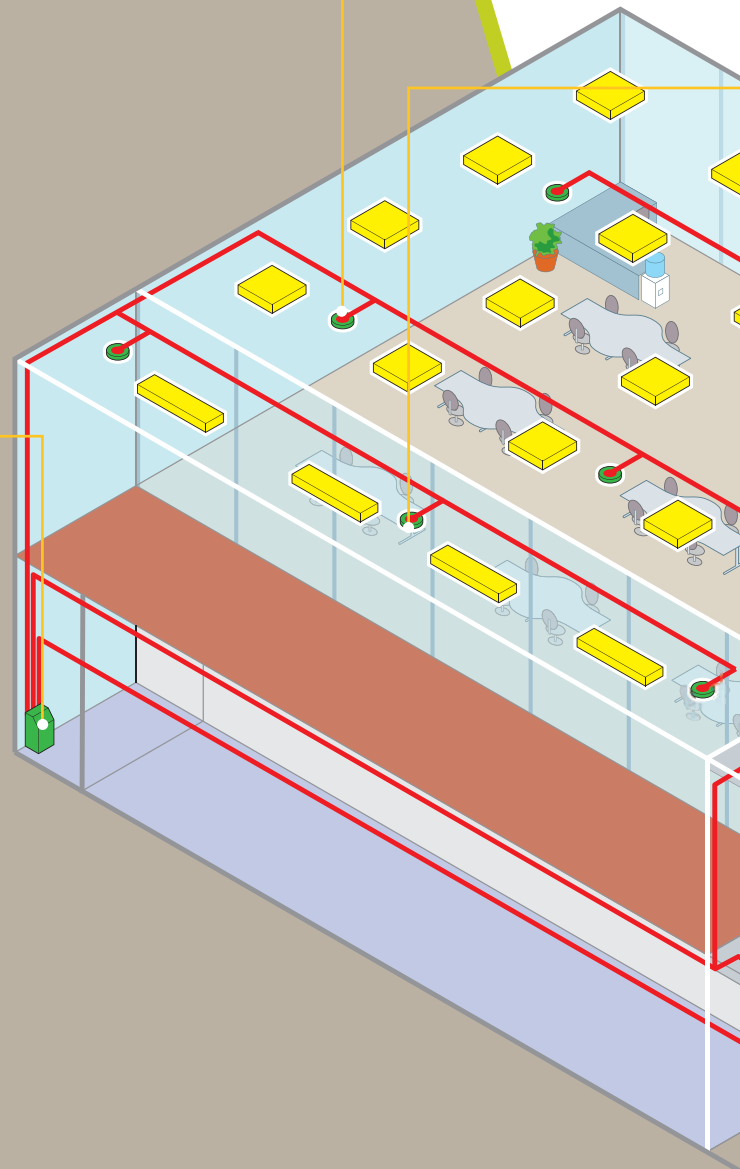
Control Panels



PFDPANEL12AH
PFDPANEL24AH



PFD PANEL48AH



With the system utilising low energy LEDs, batteries are incorporated in the control panel and require significantly less space than traditional fluorescent central battery systems.



LED Heads



Delivering all the benefits of LEDs, the Pathfinder LED Head integrates effortlessly with its surroundings and due to its efficient, effective performance and with the ability to create an optimum emergency lighting scheme, initial installed costs are reduced. IP68 version also available.



The LED escape route head is especially effective in corridor applications.

LED Stairwell



For the architecturally demanding applications, the Pathfinder LED Stairwell provides a discreet emergency lighting solution. With a life span of 50,000 hours and robust construction, years of low through life maintenance costs are generated.

LED Exit Signs

Utilising the latest LED technology, Pathfinder Exit Signs are robust and have a much longer life than traditional fluorescent exit signs. Due to their compact size, Pathfinder Exit Signs offer architectural integration as standard and are less intrusive than comparative fluorescent products. Order legend panels separately, all legend panels comply with BS5266-1 2011 (ISO7010).



Specification

The Pathfinder emergency lighting system is a class 1 protection supply device for operating and monitoring up to 80 emergency LED luminaires, dependant upon loading of the control panel. 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.

32 panels can be networked together on an existing TCP/IP network to create an IP addressable installation with web browser access.

Control Panels

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



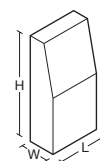
PFD PANEL12AH
PFD PANEL24AH



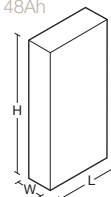
PFD PANEL48AH

Dimensions

12/24Ah



48Ah



Version	L	W	H	KG
PFD PANEL12Ah	253	120	470	15.0
PFD PANEL24Ah	253	120	630	25.7
PFD PANEL48Ah	400	170	800	56.5

Order Codes

LED Control Panel Maximum Loading Per Panel

Central Battery Control Panel 12Ah Capacity	2.9A	PFD PANEL12AH
Central Battery Control Panel 24Ah Capacity	5.8A	PFD PANEL24AH
Central Battery Control Panel 48Ah Capacity	11.6A	PFD PANEL48AH

Note: Refer to website for Pathfinder loading charts

To Specify

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

Programming Device

- An intelligent connection stick that programmes and saves the Pathfinder Panel device configuration
- Supplied with programming software (CD-ROM) to enable amendments to the device configuration using Microsoft Windows (7, XP or Vista)
- Can store and print logbooks from devices



Order Codes

Programming Device

PFDSTICK

3 Phase Monitor Relay

- Three phase monitor
- Detects phase or circuit failures in general lighting sub-distribution panels with volt free failure indication contact
- LED indication for L1, L2 and L3
- Monitoring low voltage and mains failure in three phase systems
- Voltage – 230V/400V AC 50/60 Hz
- To be installed in accordance with BS5266/EN50172



Order Codes

3 Phase Monitor Relay

PFD3PMONITOR

Integral Pathfinder LED Head

- An integral luminaire LED head with threaded body and lock nut for ease of installation
- Supplied complete with driver
- Small, discrete and high performing LED head
- Aluminium heat sink integrated in head
- 18mm diameter and 110° beam angle



Order Codes

NB: Product is supplied within a luminaire and not individually. To specify this product within a luminaire please consult our Technical Desk.

Mimic Panel

- A control monitoring device for external status and failure indication of upto 16 Pathfinder control panels (page 236)
- Manual and automatic function and battery duration test can be activated centrally at definable intervals
- Displays status of all connected Pathfinder control panels
- A central monitoring device for up to 16 Pathfinder panels.
- Includes:
 - One interface card for the connection of 8 Pathfinder control panels
 - A second interface card for a further 8 panels is available (supplied separately)
 - One button control
 - 4 volt-free contact, one of which can be programmed
 - 3 status LEDs
 - Central reset
 - Central blocking function
 - Connection by 3 wire bus cable



Order Codes

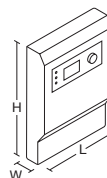
Mimic panel with 1 interface card for up to 8 Pathfinder control panels

PFDMIM

Additional interface card to enable expansion to up to 16 Pathfinder control panels

PFDINTCARD

Dimensions



Version	W	H	D	KG
PFDMIM	186	230	38	0.8

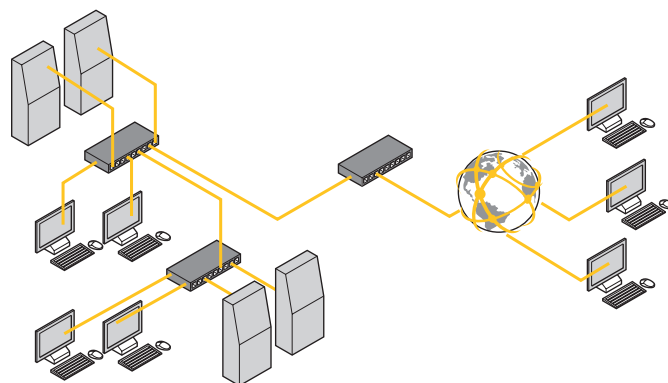
Web Control Software

- To centrally control and monitor up to 99 Pathfinder Control Panels via the Internet/Intranet remotely
- To be installed on a PC with Ethernet access and Windows XP, Vista or Windows 7

Functionality

- Automatic function/battery duration test
- Logbook function for all connected devices
- Email automatically sent at definable intervals in the event of tests or faults
- Overall status displayed (of all systems) by an icon on the task bar

Internal or External Control



Order Codes

Web control software

PFDWEBCS

Optics

- High performance, LED emergency luminaires supplied complete with driver
- Recessed - Open area, escape route and IP68 options available
- Surface Mounted - Open area, escape route options available
- Robust, compact and low energy solution

Body

- Cast aluminium body with integral heat sink
- Powder coated white or silver options
- Spring retaining clips for ceilings up to 16mm
- Input voltage 24V DC
- Supplied complete with driver
- Current consumption: 0.14A

Note: LED heads can only be used as part of a Pathfinder system



Escape Route Head



IP68 Head



Surface Mounted

Order Codes

LED Head

Recessed Emergency LED Silver Body – 3W

PFDRELEDS

Recessed Emergency LED White Body – 3W

PFDRELEDW

Surface Mounted Emergency LED Silver Body – 3W

PFDRELEDSSM

Surface Mounted Emergency LED White Body – 3W

PFDRELEDWSM

Escape Route LED Head

Recessed Emergency LED Silver Body – 3W

PFDCELEDS

Recessed Emergency LED White Body – 3W

PFDCELEDW

Surface Mounted Emergency LED Silver Body – 3W

PFDCELEDSSM

Surface Mounted Emergency LED White Body – 3W

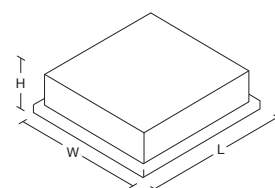
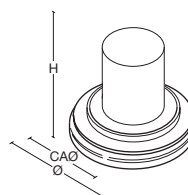
PFDCELEDWSM

IP68

Recessed Emergency LED Silver Body IP68 – 3W

PFDRELEDS/IP68

Dimensions



Recessed	Ø	H	CAØ	KG
LED Head	55	50	46	0.1
Escape Route	55	25	46	0.1
IP68	31	53	26	0.1

Surface mounted	L	W	H	KG
LED Head	140	140	42	0.53
Escape Route	140	140	42	0.53

Performance Guide Spacing Table



LED Head

Mounting height	Distance from wall	Distance between heads
2.50	2.40	5.60
3.00	2.60	5.80
4.00	3.10	7.00

Escape Route LED Head

Mounting height	Distance from wall	Distance between heads
2.50	4.60	10.90
3.00	4.90	12.10
4.00	4.20	12.20

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

Optics

- 16 or 22m viewing distance options
 - 16m – 4 x 0.5W LEDs
 - 22m – 6 x 0.5W LEDs
- LEFT, RIGHT, UP and DOWN printed acrylic legend panel to be ordered separately

Body

- Extruded aluminium body housing electronics and LEDs
- Three mounting options:
 - Ceiling
 - Wall
 - Suspended (Supplied with 1m wire suspension kit)
- Input voltage 24V DC
- Supplied complete with driver
- Current consumption:
 - 16m: 0.1A
 - 22m: 0.125A

Note: LED exit sign can only be used as part of a Pathfinder system

Order Codes

LED Exit Sign 16m

4 x 0.5W LED	Ceiling Mounted	PFDCEILING
4 x 0.5W LED	Wall Mounted	PFDWALL
4 x 0.5W LED	Suspended	PFDSUSPENDED

Legends

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

Options

22m version	Add suffix /22M	i.e. PFDCEILING/22M
22m version (LEGENDS)	Add suffix /22M	i.e. PFDLPSSD/22M

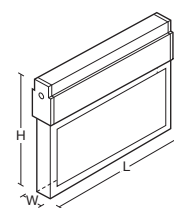


Wall Mount



Ceiling Mount

Dimensions



Version	L	W	H	KG
16m	176	28	134	0.6
22m	256	28	180	0.9

Legends



Up



Down



Left



Right

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

Optics

- 4 x 1W LED
- 22m viewing distance
- LEFT, RIGHT, UP and DOWN printed acrylic legend panel to be ordered separately

Body

- Brushed stainless steel body housing LEDs and electronics
- Three mounting options:
 - Ceiling
 - Wall
 - Suspended (Supplied with 1m wire suspension kit)
- Input voltage 24V DC
- Supplied complete with driver
- Current consumption: 0.2A

Note: LED architectural exit sign can only be used as part of a Pathfinder system



Order Codes

Architectural Exit Sign

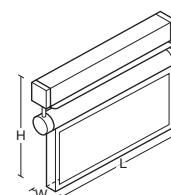
4 x 1W LED	Ceiling Mounted	PFDCEILING/ARCH
4 x 1W LED	Wall Mounted	PFDWALL/ARCH
4 x 1W LED	Suspended	PFDSUSPENDED/ARCH

Legends

DOWN LEGEND	SINGLE SIDED	PFDARCHSSD
UP LEGEND	SINGLE SIDED	PFDARCHSSU
LEFT LEGEND	SINGLE SIDED	PFDARCHSSL
RIGHT LEGEND	SINGLE SIDED	PFDARCHSSR
DOWN LEGEND	DOUBLE SIDED	PFDARCHDSD
UP LEGEND	DOUBLE SIDED	PFDARCHDSU
TO SIDE LEGEND	DOUBLE SIDED	PFDARCHDST

Note: Legends to be ordered separately

Dimensions



L	W	H	KG
286	55	231	1.95

Legends



Up Down



Left Right

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

Optics

- 22m viewing distance
- 3 x 1W LEDs
- LEFT, RIGHT, UP and DOWN acrylic legend panel to be ordered separately

Body

- Brushed steel body finished silver
- Housing has adjustable arms to simplify installation
- Smaller than conventional recessed exit signs making installation more attractive
- Supplied complete with driver
- Input voltage 24V DC
- Current consumption: 0.15A

Note: LED recessed exit sign can only be used as part of a Pathfinder system



Order codes

LED Recessed Exit Sign

3 x 1W LED Silver

Ceiling Mounted

PFDRECESSED

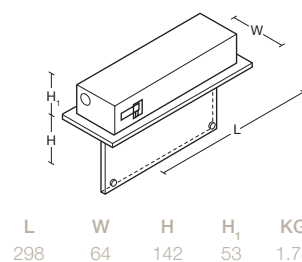
Legends

DOWN LEGEND	SINGLE SIDED
UP LEGEND	SINGLE SIDED
LEFT LEGEND	SINGLE SIDED
RIGHT LEGEND	SINGLE SIDED
DOWN LEGEND	DOUBLE SIDED
UP LEGEND	DOUBLE SIDED
TO SIDE LEGEND	DOUBLE SIDED

PFDRESSD
PFDRESSU
PFDRESSL
PFDRESSR
PFDRESDSD
PFDREDSU
PFDREDST

Note: Legends to be ordered separately

Dimensions



Legends



Up



Down



Left



Right

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

Optics

- 3 x 1W LED
- If used with legend, maximum 30m viewing distance
- Clear or opal polycarbonate or legend cover to be ordered separately

Body

- Slim white polycarbonate body
- IP43
- Cable entry from the top or rear of the product
- Input Voltage 24V DC
- Supplied complete with driver
- Current consumption: 0.125A

Note: IP43 bulkhead can only be used as part of a Pathfinder system



Clear Cover

Order Codes

LED IP43 Exit Bulkhead

3 x 1W LED

Wall Mounted

PFDEXIT/IP43

Legends

DOWN LEGEND

UP LEGEND

LEFT LEGEND

RIGHT LEGEND

CLEAR COVER

OPAL COVER

Note: Legends to be ordered separately

PFDCOVD/IP43

PFDCOVU/IP43

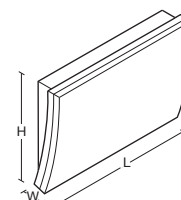
PFDCOVL/IP43

PFDCOVR/IP43

PFDCOVC/IP43

PFDCOVO/IP43

Dimensions



L	W	H	KG
337	72	160	0.6

Legends



Up



Down



Left



Right

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

Optics

- 4 x 1W LED
- If used with legend kit max 22m viewing distance
- Clear polycarbonate diffuser
- Legend kit to be ordered separately if required

Body

- Slim white polycarbonate body
- IP65
- Suitable for ceiling or wall mounting
- Input Voltage 24V DC
- Supplied complete with Driver
- Current consumption: 0.2A

Note: LED IP65 bulkhead can only be used as part of a Pathfinder system



Order Codes

LED IP65 Bulkhead

4 x 1W LED

Wall Mounted

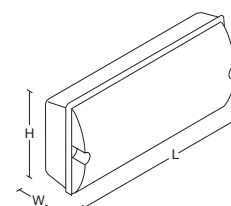
PFDEXIT/IP65

Legends

IP65 Legend Kit

PFDEXIT/IP65LKIT

Dimensions



L	W	H	KG
356	79	136	0.6

Legend Kit



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

Optics

- 2 x 1W LEDs
- Acrylic diffuser optic
- High output LEDs provide 50,000 hours life expectancy

Body

- Steel and aluminium body housing electronics & LEDs
- Suitable for wall mounting vertically or horizontally
- Input voltage 24V DC
- Supplied complete with driver
- Current Consumption: 0.115A

Note: LED stairwell can only be used as part of a Pathfinder system

Order Codes

LED Stairwell

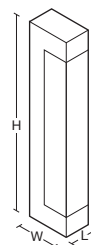
2 x 1W LED
2 x 1W LED

White
Silver

PFDSTAIRW
PFDSTAIRS



Dimensions



L	W	H	KG
30	50	230	0.5

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

Optics

- Opal or gridded cover available to control light distribution
- 3 x 0.5W LEDs

Body

- Powder coated sheet steel
- Front cover finished white or silver
- Total consumption 0.115A
- Driver included in fitting
- For installation in cavity wall box (included)



Gridded Cover

Order Codes

Safety LED Walkway Luminaire

Opal Cover White
Gridded Cover White

PFDWWOPW
PFDWWGRW

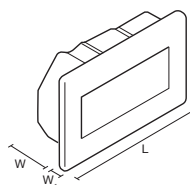
Options

SILVER FINISH

Replace W with S

i.e. PFDWWOPS

Dimensions



L	W	W ₁	H	KG
155	5	75	84	0.5

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