

# EMERGENCY LIGHTING SYSTEM

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**PRODUCT CATALOGUE**

**FIREscape®**

## AN EXTRA LOW VOLTAGE EXIT & EMERGENCY LIGHTING SYSTEM

Firescape is a revolutionary emergency lighting system, made using fully recycled materials and able to save up to 80% in power costs through its patented energy efficient design. The system fully complies with and is certified to, AS/NZS 2293 Parts 1 and 3.

### Key Benefits of FIREscape®

#### 1 Environmentally friendly in energy costs and CO2 emissions

The Firescape emergency light system uses fully recyclable materials that do not place an unnecessary burden on the environment. Due to their unique extra low-voltage solution, cabling costs are reduced by 60% during installation when compared to old central battery based systems. Firescape also runs off 35 V dc instead of 230 Ac volts like traditional emergency lighting systems, saving significant money in power consumption.

#### 2 A cost-efficient system implemented and maintained

A Firescape exit sign luminaire consumes less than 0.5W, including the power loss. When compared to 230V LED lights, Firescape products save more than 60% of energy. The lower energy consumption directly correlates with lower CO2 emissions.

#### 3 Emergency luminaires and Exit signs share the same circuit

Due to Firescape programmability, exit and route lights can be freely installed anywhere on the line without having to group them into either exit or route lights.

#### 4 Reduced cabling costs

Due to their self-contained backup power source, the Firescape lighting devices can use screened, non-fire rated cabling, instead of heavy and costly fire resistant cabling, reducing the installation costs associated with traditional emergency lighting systems.

#### 5 Operational reliability; luminaires feature integral stand-by batteries

A fire-rated cable is not required because all Firescape luminaires are equipped with integral stand-by batteries allowing the luminaires to function in fail-safe mode even in situations where the control panel becomes damaged or inoperable or the line cable is severed. The luminaire batteries allow continual operation in excess of 3 hrs.

#### 6 Automatic luminaire battery and LED health testing features

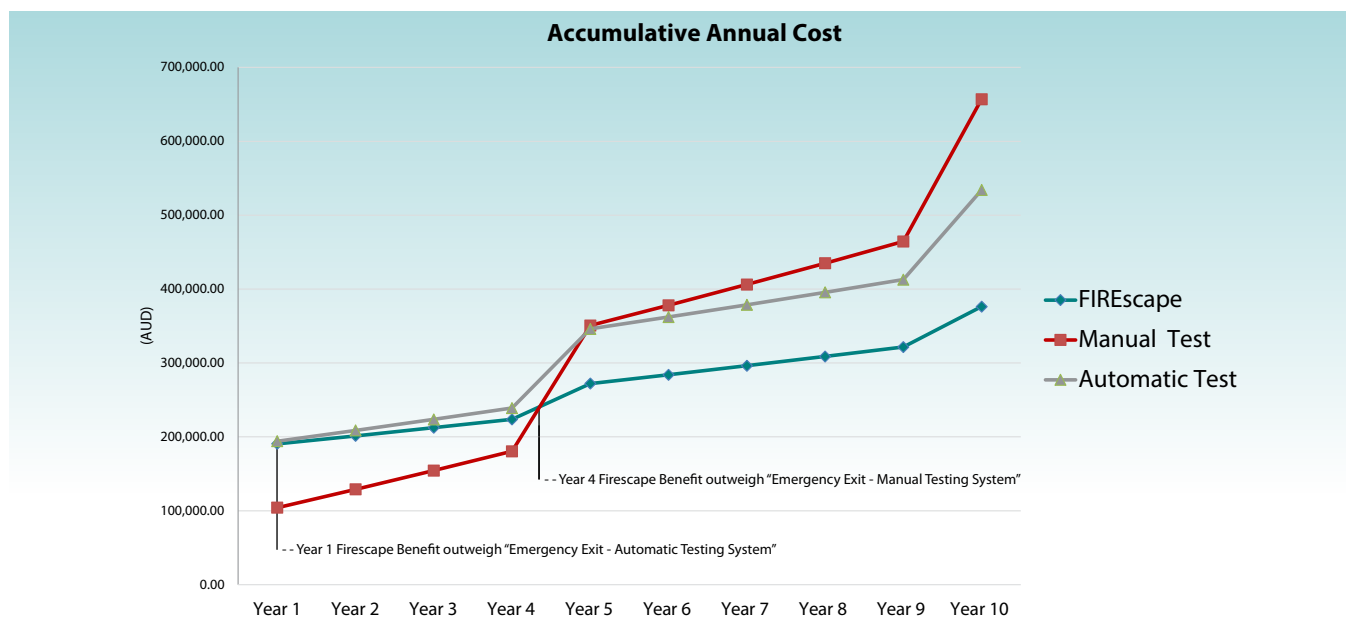
The EL-2 control panel constantly monitors the condition of the luminaire batteries and LEDs and can be programmed to perform the periodical testing and reporting required under AS2293.2

#### 7 Easy display control centre

Fault information from the Firescape emergency lighting system can be displayed using the optional EL-GRAPH graphic software which can show actual building floor-plans with activated areas and individual unit faults. The software can allow the FIREscape® emergency lighting system to be monitored from a control room/centre based locally onsite or remotely via IP.

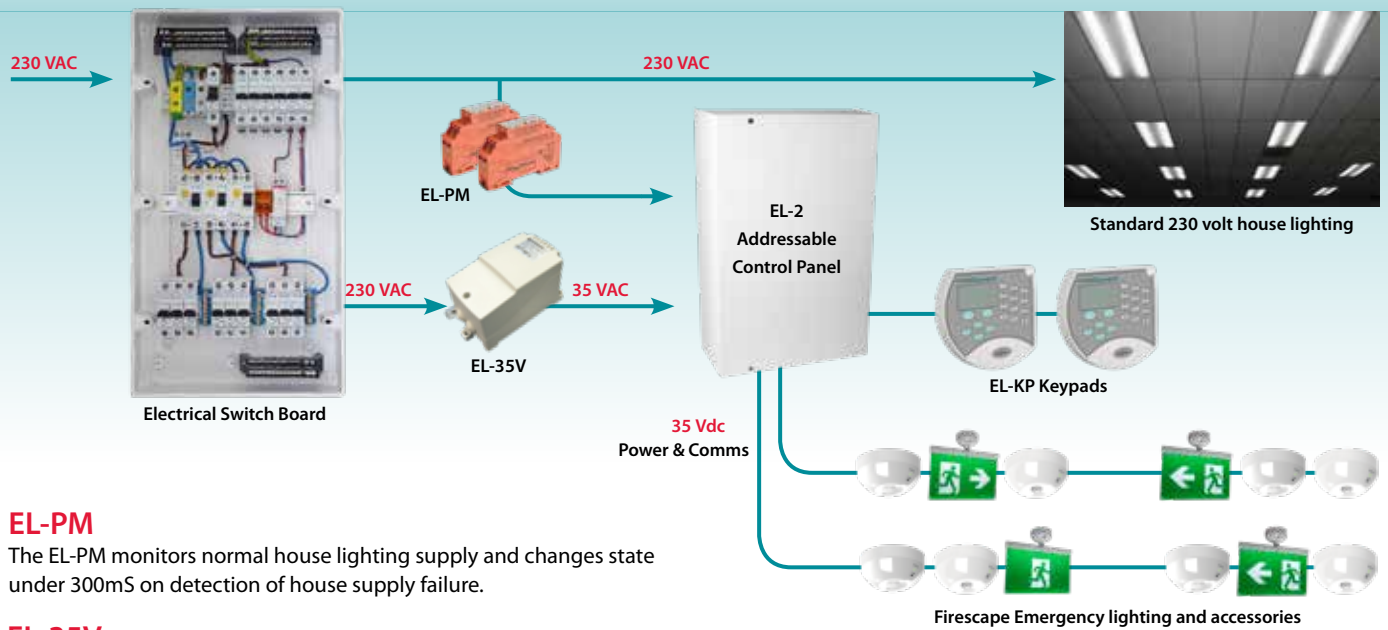
#### 8 Remote Monitoring

Remote monitoring of the EL-2 emergency lighting system control panel is possible utilising the GSM alarm transfer unit. Fault data is easily transmitted to end user or service company GSM numbers. Each GSM number can be stored in an 'alarm ring' so that each responsible person can be contacted in turn if any others are unavailable.



The above "cost of ownership product comparison" line graph is based on 1000 luminaires (80% Emergency Escape & 20% Emergency Exits) over a 10 year period. It incorporates the following variables in relation to an emergency lighting system - Power Consumption / Carbon Foot print - Labour Cost for AS2293.2 Testing requirements - Capital cost for Battery / Luminaire failure - Labour Cost for Battery / Luminaire replacement

## FIRESCAPE EXIT & EMERGENCY LIGHTING SYSTEM



### EL-PM

The EL-PM monitors normal house lighting supply and changes state under 300mS on detection of house supply failure.

### EL-35V

The EL-35V transformer converts 230 Ac volts to 35 V dc.

### EL-2 ADDRESSABLE CONTROL PANEL

The EL-2 emergency light control panel features two lines, each line can accommodate 127 exit signs, route lights or I/O units. The EL-2 supplies the operational voltage to the light units during normal conditions, whilst also completing the continuous testing and monitoring of the equipment on the system. All monitored event information is saved in the memory of the control panel, and this can be accessed through the connected EL-KP keypad.

### EL-KP KeyPad

EL-KP Keypads show system status of the lighting units including battery charge and LED faults.

## KEY POINTS

### Save energy costs through:

- Each light not needing a transformer.
- Minimum 60% more energy efficient than standard exit & emergency lighting systems.
- Extra Low Voltage System.

The only EXIT Emergency Lighting System compliant with AS2293 - Parts 1 & 3





**EL-24S-KIT**

**EXIT SIGN**  
Straight, Single Sided

**KIT CONTENTS**

EL-24-AS EXIT SIGN 24M FRAME  
EL-24G-AS REFLECTIVE WORM , BACK PLATE & RIVETS ASSY  
EL-24G-S-AS 24M LENS STRAIGHT  
EL-BAT450-AS LITHIUM POLYMER BATTERY 7.4 V dc 450 mAh



**EL-24L-KIT**

**EXIT SIGN**  
Left Arrow, Single Sided

**KIT CONTENTS**

EL-24-AS EXIT SIGN 24M FRAME  
EL-24G-AS REFLECTIVE WORM , BACK PLATE & RIVETS ASSY  
EL-24G-L-AS 24M LENS LEFT  
EL-BAT450-AS LITHIUM POLYMER BATTERY 7.4 V dc 450 mAh



**EL-24LD-KIT**

**EXIT SIGN**  
Left Arrow, Double Sided

**KIT CONTENTS**

EL-24-AS EXIT SIGN 24M FRAME  
EL-24G-AS REFLECTIVE WORM , BACK PLATE & RIVETS ASSY  
EL-24G-L-AS 24M LENS LEFT  
EL-24G-R-AS 24M LENS RIGHT  
EL-BAT450-AS LITHIUM POLYMER BATTERY 7.4 V dc 450 mAh



**EL-24R-KIT**

**EXIT SIGN**  
Right Arrow, Single Sided

**KIT CONTENTS**

EL-24-AS EXIT SIGN 24M FRAME  
EL-24G-AS REFLECTIVE WORM , BACK PLATE & RIVETS ASSY  
EL-24G-R-AS 24M LENS RIGHT  
EL-BAT450-AS LITHIUM POLYMER BATTERY 7.4Vdc 450 mAh



**EL-24RD-KIT**

**EXIT SIGN**  
Right Arrow, Double Sided

**KIT CONTENTS**

EL-24-AS EXIT SIGN 24M FRAME  
EL-24G-AS REFLECTIVE WORM , BACK PLATE & RIVETS ASSY  
EL-24G-R-AS 24M LENS RIGHT  
EL-24G-L-AS 24M LENS LEFT  
EL-BAT450-AS LITHIUM POLYMER BATTERY 7.4 V dc 450 mAh



**EL-DL2-KIT**

**EMERGENCY ESCAPE**  
CORRIDOR LIGHT

**KIT CONTENTS**

EL-DL2-AS CORRIDOR DOWN LIGHT  
EL-BAT450-AS LITHIUM POLYMER BATTERY 7.4 V dc 450 mAh



**EL-DL3-KIT**

**EMERGENCY ESCAPE**  
OPEN AREA LIGHT

**KIT CONTENTS**

EL-DL3-AS OPEN AREA DOWN LIGHT  
EL-BAT450-AS LITHIUM POLYMER BATTERY 7.4 V dc 450 mAh



**NF89-C-KIT**

**EMERGENCY ESCAPE**  
HIGH POWERED  
CORRIDOR LIGHT

**KIT CONTENTS**

NF89-C-AS HIGH POWER CORRIDOR DOWN LIGHT INC  
BATTERY SPACER  
EL-BAT2950-AS LITHIUM ION BATTERY 7.4 V dc 2950 mAh



**NF89-O-KIT**

**EMERGENCY ESCAPE**  
HIGH POWERED  
OPEN AREA LIGHT

**KIT CONTENTS**

NF89-O-AS HIGH POWER OPEN AREA DOWN LIGHT INC  
BATTERY SPACER  
EL-BAT2950-AS LITHIUM ION BATTERY 7.4 V dc 2950 mAh





## EL-TSB

A common mounting base which is used to mount the Firescape range of luminaires and exit signs.

- ▶ Test switch
- ▶ Stainless steel contacts
- ▶ Accepts 2.5 mm<sup>2</sup> conductors
- ▶ Quick and easy 'twist on' connection of luminaires



## EL-2 ADDRESSABLE CONTROL PANEL

The EL-2 emergency light control panel features two lines, each line can accommodate 127 exit signs, route lights or I/O units. The EL-2 supplies the operational voltage to the light units during normal conditions, whilst also completing the continuous testing and monitoring of the equipment on the system. All monitored event information is saved in the memory of the control panel, and this can be accessed by a connected EL-KP keypad.

NOTE: Must be used in conjunction with the EL-35V Transformer.

### Technical Specifications

Ordering Code	EL-2
Number of lights/signs supported	254
Connection voltage	35 V ac (220VA)
Nominal voltage	12 V dc
Internal batteries capacity	7.2 Ah
I/O outputs/inputs	2 relay outputs - x 4 inputs
Modem/PC connection	RS-232
User panel connection	RS-485/9600 baud
Event memory	512 events
Dimensions (mm)	270W x 345H x 90D
Material/Colour	Sheet steel, powder coated/White
Weight including batteries (kg)	8
Max current per line 2.5A	



## EL-KP LIGHTING SYSTEM KEYPAD

EL-KP is an emergency lighting control panel keypad for use with the EL-2 panel. The control panel is operated and interrogated through the compact backlit LCD graphical display of the keypad, which can show system status of the lighting units including battery charge and LED faults. One EL-2 control panel can support a total of 8 EL-KP keypad units, with up to a max of 48 panels on one system.

### Technical Specifications

Ordering Code	EL-KP
Nominal voltage	12 V dc
Display	LCD graphical display 128 x 64 pixels
Display viewing area (mm)	60.0 x 32.5
Dimensions (mm)	147W x 144H x 29D
Material/colour	Metal alloy, powder coated/Ivory
Weight (g)	410



**EL-35V**

A transformer for the EL-2 emergency light control panel.

- ▶ 35 VAC, 220 VA
- ▶ Input: 230 V ac
- ▶ Output: 35 V ac / 220 VA
- ▶ Protection class: IP44
- ▶ Operational temperature: max. 40°C
- ▶ Wall installation: with three screws
- ▶ Manufacturing class: SS 4270203 (EN60742)
- ▶ Weight: 3.2 kg



**EL-CAB**

A connection cable for use between the EL-2 Emergency Light Control Panel and a PC/laptop.



**EL-PM**

An under-voltage monitoring device that constantly assesses the condition of a mains lighting circuit. When the lighting circuit is deemed faulty, the unit will provide a signal that can be relayed to the control equipment to initiate emergency luminaire activation.

- ▶ Triggers at 75% of the nominal lighting circuit supply
- ▶ DIN Rail mounted
- ▶ Power and output indications

**BATTERIES**



**EL-BAT450-AS**

A rechargeable Lithium/Polymer back-up battery for use with luminaires and exit signs within the Firescape range.

- ▶ 450 mAh
- ▶ 7.4 V dc
- ▶ For use with FIREscape luminaires and exit signs
- ▶ Provides minimum 3h backup time (AS2293 requires 1.5h)
- ▶ Incorporates deep discharge protection circuitry



**EL-BAT2950-AS**

A rechargeable Lithium/Polymer back-up battery specifically for use with the NF89-O-AS and NF89-C-AS luminaires within the Firescape range.

- ▶ 2950 mAh
- ▶ 7.4 V dc
- ▶ For use with the NF89-O-AS and NF89-C-AS

## 24M ADDRESSABLE EXIT SIGN



An LED-based, addressable 24m viewable exit light with a flexible 'flex it' hinge solution. The exit light's hinge cup contains the electronics and stand-by battery and allows the unit to attach to the Hochiki EL-TSB mounting base. The cup also features a bicoloured status LED indicating charge/fault status (green for charging, red for fault), approved to AS2293.



### EL-24-AS

24m Emergency Exit Sign Frame, white (battery required)



### EL-24G-AS

24m Reflective Worm Back plate and Rivets Assy



### EL-24G-S-AS

FIREscape 24m Lens, STRAIGHT



### EL-24G-L-AS

FIREscape 24m Lens, LEFT arrow



### EL-24G-R-AS

FIREscape 24m Lens, RIGHT arrow

## Technical Specifications

Compatible base	EL-TSB	
Operating voltage	24v-40v	
Minimum standby operating Time	+ 3hours	
Power consumption from line(W)	1.1 Watt	
LED life time	+100,000Hrs	
Dimensions (mm) including base	Wall mounted	328L x 280H x 100D
	Ceiling mounted	328L x 290H x 100D
Weight including battery (g)	790	
Temp range	40°C	
Material	Cup and Bracket	Fire resistant PC + ABS (FR3010)
	Lens	Acrylic
Fire class	UL94 V-O	
IP rating	IP20 (IP44 option available)	
Case colour	White (RAL9003 "Signal White")	
Approval	AS2293, AS/NZ60598.2.22, EN55015	



### EL-DL2-AS CORRIDOR DOWN LIGHT

EL-DL2-AS is an LED-based, addressable corridor down light featuring one high-powered LED with a specially engineered dual surface free-form optic. The unit's body contains the electronics and the stand-by battery and features a bicoloured status LED indicating charge/fault status (green for charging, red for fault).

The unit has been designed to easily fit onto Hochiki's base, the EL-TSB.

Shown mounted on EL-TSB base (sold separately).

### Technical Specifications

Compatible base	EL-TSB
Operating voltage	24v-40v
Minimum standby operating Time	+ 3hours
Power consumption from line(W)	0.1 Watt
LED life time	+100,000Hrs
Dimensions (mm)	100(diameter) x 48(height) (inc 8mm for EL-TSB)
Weight including battery (g)	100
Temp range	40°C
Case material	Fire resistant PC + ABS plastic (FR3010)
Fire class	UL94 V-O
IP rating	IP20 (IP67 option available)
Case colour	White (RAL9003 " Signal White")
Approval	AS2293, AS/NZ60598.2.22, EN55015
Classification	C0:C2, C90:E25



### EL-DL3-AS OPEN SPACE DOWN LIGHT

EL-DL3-AS is an LED-based, addressable open space down light featuring one high-powered LED with a specially engineered dual surface free-form optic. The unit's body contains the electronics and the stand-by battery and features a bicoloured status LED indicating charge/fault status (green for charging, red for fault).

The unit has been designed to easily fit onto Hochiki's base, the EL-TSB.

Shown mounted on EL-TSB base (sold separately).

### Technical Specifications

Compatible base	EL-TSB
Operating voltage	24v-40v
Minimum standby operating Time	+ 3hours
Power consumption from line(W)	0.1 Watt
LED life time	+100,000Hrs
Dimensions (mm)	100(diameter) x 48(height) (inc 8mm for EL-TSB)
Weight including battery (g)	100
Temp range	40°C
Case material	Fire resistant PC + ABS plastic (FR3010)
Fire class	UL94 V-O
IP rating	IP20 (IP67 option available)
Case colour	White (RAL9003 " Signal White")
Approval	AS2293, AS/NZ60598.2.22, EN55015
Classification	C0:E6.3, C90:E6.3





## NF89-C-AS HIGH POWER CORRIDOR DOWN LIGHT

The NF89-C-AS Corridor luminaire is an addressable processor controlled device using modern LED technology and is equipped with a battery. It uses one conductor pair for both power and communication. The conductors are connected to a separate round mounting base onto which the luminaire is mounted. The luminaire uses a bigger battery than standard and needs a battery spacer NFW/BS. The battery is mounted into the spacer and the spacer is connected to the luminaire with bayonet fix. The package is then mounted onto the base.

The luminaire can be ordered with corridor lens NF89-C-AS or with open area lens NF89-O-AS

Shown mounted on a Battery Spacer (supplied) & EL-TSB base (sold separately).

### Technical Specifications

Compatible base	EL-TSB
Operating voltage	24v-40v
Minimum standby operating Time	+ 3hours
Power consumption from line(W)	0.6 Watt
LED life time	+100,000Hrs
Dimensions (mm)	100(diameter) x 65(height) (inc 8mm for EL-TSB and battery spacer base )
Weight including battery (g)	290
Temp range	40°C
Case material	Aluminium
IP rating	IP20
Case colour	White (RAL9003 " Signal White")
Approval	AS2293, AS/NZ60598.2.22, EN55015
Classification	C0:D6.3, C90:D32



## NF89-O-AS HIGH POWER OPEN SPACE DOWN LIGHT

The NF89-O-AS Open Area luminaire is an addressable processor controlled device using modern LED technology and is equipped with a battery. It uses one conductor pair for both power and communication. The conductors are connected to a separate round mounting base onto which the luminaire is mounted. The luminaire uses a bigger battery than standard and needs a battery spacer NFW/BS. The battery is mounted into the spacer and the spacer is connected to the luminaire with bayonet fix. The package is then mounted onto the base.

The luminaire can be ordered with corridor lens NF89-C-AS or with open area lens NF89-O-AS.

Shown mounted on a Battery Spacer (supplied) & EL-TSB base (sold separately).

### Technical Specifications

Compatible base	EL-TSB
Operating voltage	24v-40v
Minimum standby operating Time	+ 3hours
Power consumption from line(W)	0.6 Watt
LED life time	+100,000Hrs
Dimensions (mm)	100(diameter) x 65(height) (inc 8mm for EL-TSB and battery spacer base )
Weight including battery (g)	290
Temp range	40°C
Case material	Aluminium
IP rating	IP20
Case colour	White (RAL9003 " Signal White")
Approval	AS2293, AS/NZ60598.2.22, EN55015
Classification	C0:E40, C90:E40



## EL-REC40 RECESS ADAPTOR

The recess adaptor bracket allow a semi-flush fitting of the EL-24 exit signs. The bracket needs to be fitted with an exit sign and a mounting base (not supplied) and are equipped with spring loaded clips for secure fixing to most suspended ceiling materials. The bracket features a small inspection hole in the ceiling plate which allows sight of the bicoloured status LED on the exit sign cup within the ceiling void.

Shown with EL-24 24m exit sign fitted (sold separately).

### Technical Specifications

Ordering Code	EL-REC40
Adaptor bracket colour	White
Material	Powder-coated metal
Dimensions (mm)	L380 x W120 x H110
Cut-out dimensions (mm)	L350 x W90
Maximum ceiling thickness (mm)	35
Weight (g)	650



## NFW68/89-RA RECESS ADAPTOR

The NFW68/89-RA is a mounting adaptor for the Emergency Lighting product range and their associated mounting bases. It allows a base and light combination to be flush mounted by providing a recess fixing in the ceiling. *(shown with luminaire fitted – not supplied)*

*Allows all current Firescape luminaires to be flush mounted:  
EL-DL2-AS, EL-DL3-AS, NF89-O-AS, NF89-C-AS*

### Technical Specifications

Ordering Code	NFW68/89-RA
Operating Temperature Range	-10°C to + 50°C
Storage Temperature Range	-30°C to + 60°C
Maximum Humidity	95%RH - Non Condensing (at 40 °C)
Colour / Material	White / ABS
Weight (g) / Diameter (mm) / Height (mm)	65 / 140 / 44
Height when fitted flush (mm)	3
Drilled Hole Size (mm)	128



## EL-SL ADDRESSABLE STEP LUMINAIRE

An LED-based, addressable step lighting unit, which is installed semi-flush. The stand-by battery is contained within the unit.

Although low-level lighting is not a requirement under AS2293 this attractive and discreet unit is ideal for lighting stairway treads and changes in floor levels.

### Technical Specifications

Ordering Code	EL-SL
Case colour	White (RAL 9003 "Signal White")
Material	Fire resistant PC + ABS plastic (FR3010)
Fire class	UL94 V-O
Operation time	1 h/3h
Dimensions (mm)	80W x 80H x 12D
Weight including battery (g)	110
Drilled Hole Size (mm)	128



## EL-PSU

A bus-controlled Power Supply, which operates with the Firescape system providing charge to luminaire batteries.

NOTE: A remote power supply is required to power any non-addressable slave luminaires.

- ▶ Switched-mode power source
- ▶ Parallel connection for outputs max. 2.5 mm<sup>2</sup>
- ▶ Outputs: 12 V dc / 24 V dc (2 x 5 A)
- ▶ Batteries: 2 units, 7 Ah / 1 hr standby time
- ▶ Group-specific monitoring of emergency lighting
- ▶ Controlled using EL-IO units
- ▶ Designed for 12/24 V dc lights



## EL-GRAPH

An alarm graphics package which allows the end-user to visually check on the status of the complete Firescape system, down to individual point status.

- ▶ Fully integrated graphics package
- ▶ Individual point monitoring
- ▶ Reports point status information
- ▶ Point interrogation and control



## EL-IMP

A configuration and programming software tool for use with the EL-2 emergency lighting control panel.

The software is used to configure light levels, set up lighting areas and create input and output parameters during set-up and commissioning.

- ▶ Allows configuration of luminaires
- ▶ Allows configuration of input/output devices
- ▶ Assists in fault finding
- ▶ Allows uploading and downloading of data
- ▶ Assists in report generation and retrieval



**EL-LIC** User Licence

**EL-LIC(SER)** Server Licence



**EL-1RC**

A relay card for use with the EL-2 Emergency Light Control Panel.

- ▶ Equipped with one volt-free relay output which can be set as N/O or N/C
- ▶ Control voltage 12 V dc
- ▶ Electricity consumption 37.5 mA (at 12 V dc)
- ▶ Dimensions: 50 x 37 mm



**EL-BDC**

A battery monitoring card for use with the EL-2 Emergency Light Control Panel.

- ▶ The unit is used to prevent the deep discharge of the panel's battery during long-duration (over 50 h) power outages



**EL-EXP**

An expansion unit used for expanding the serial ports of the EL-2 Emergency Light Control Panel. The unit provides two additional ports, SER1 and SER2.

- ▶ Provides two additional serial ports within the control panel
- ▶ Ports can be configured either as RS-232 or RS-485
- ▶ Four integral LEDs to indicate communications



**EL-8RC**

A relay card which adds 8 relay outputs to the EL-2 Emergency Light Control Panel. Each output can be programmed with all necessary functions, including links to other systems. Up to 4 cards can be connected to the panel simultaneously.

- ▶ Provides 8 relay outputs 1A at 30V
- ▶ RS-485 channel connection (DIL-128)
- ▶ A total of 4 cards can be connected to the same channel
- ▶ Dimensions: 110 x 75 x 42mm
- ▶ Fits to DIN rail



**EL-IO**

An I/O unit which is connected to a line of the EL-2 Emergency Light Control Panel, from which it receives its power. The unit links test switches and phase monitors to the Firescape system.

- ▶ 4 inputs - can be configured as opening or closing
- ▶ 2 outputs - can be configured as N/O or N/C
- ▶ Dimensions: 110 x 110 x 35 mm



## EL-ISOL

An isolator device which should be used when connecting external equipment to the EL-2 Emergency Light Control Panel's RS232 outputs, to avoid ground leakages.



## EL-LAN

An RS232 to Ethernet adapter, designed for connecting the EL-2 Emergency Light Control Panel to an Ethernet network.

- ▶ 10/100 Mbit/s
- ▶ Operational voltage 9-30 V dc
- ▶ Power feed from the EL-2 Emergency Light Control Panel (PRG screw connector)
- ▶ Maximum distance from the panel is 200m



## EL-SWT5

A 5-port Ethernet switch which can be used for splitting an Ethernet network and extending CAT cabling.

- ▶ RJ45 connectors
- ▶ Maximum distance to the next switch or terminal unit 100m
- ▶ 10/100 Mbit/s
- ▶ Operational voltage 18.5 to 30.2 V dc
- ▶ Electricity consumption ~ 90 mA (at 24 V dc)



## EL-SWT8

An 8-port Ethernet switch which can be used for splitting an Ethernet network and extending CAT cabling.

- ▶ as per EL-SWT5 above



## EL-FS

EL-FS is 'flap support' type fixing that also provides the option for the emergency lightings and exit signs to be suspended.



## EL-CS

EL-CS is a ceiling support fixing that also provides the option for the emergency lightings and exit signs to be suspended.





### EL-DE

An external weather-proof enclosure designed to allow the external mounting of the EL-DL down lights. The enclosure features one cable entry which can be glanded and provides an ingress protection rating of IP67.

(shown with luminaire fitted – not supplied)

- ▶ Robust design
- ▶ Provides IP67 protection
- ▶ Cable entry can be glanded
- ▶ Metal, powder-coated body, acrylic dome



### EL-DEB

An external weather-proof enclosure and bracket designed to allow the external mounting of the EL-DL3 open space down light. The bracket section features two cable entries which can be glanded and provides an ingress protection rating of IP67.

(shown with luminaire fitted – not supplied)

- ▶ Suitable for EL-DL3 only (open space down light)
- ▶ Robust design
- ▶ Provides IP67 protection
- ▶ 2 cable entries can be glanded
- ▶ Metal, powder-coated enclosure and bracket, acrylic dome



### EL-BBA1

A BESA Box Adaptor Plate which allows adjustment of the mounting base to allow correct alignment of exit signs and luminaires. Supplied with fixing screws.



### YZU-A

The YZU-A is an angled ceiling bracket. It allows all current Firescape luminaires to be mounted: EL-DL2-AS, EL-DL3-AS, NF89-O-AS & NF89-C-AS

(shown with base fitted – not supplied)

- ▶ Easy to install
- ▶ Allows the luminaires and mounting base to be angled



### YZU-B

The YZU-B is a fixed angle wall bracket. It allows all current Firescape luminaires to be mounted: EL-DL2-AS, EL-DL3-AS, NF89-O-AS & NF89-C-AS where the detector cannot be fixed to a ceiling surface.

- ▶ Easy to install
- ▶ Requires a mounting base for the luminaires



### TCH-B200

**A Hand Held Address Programmer** designed to address the range of detectors and other addressable devices such as the YBO-BS Base Sounder. Designed to be light, robust and easy to use it operates from a single PP3 size 9v battery which can provide up to 8000 operations.

TCH-B200: Includes CO detection

- ▶ Lightweight design
- ▶ Quick and reliable addressing
- ▶ Up to 8000 address settings from one battery
- ▶ Displays sensor analogue value

## PHOTOMETRIC DATA Spacing table (distance between fittings)

A minimum light level of 0.2Lux.



### EL-DL2-AS Corridor Luminaire

(m)		Mounting Heights															
Classification		2.1	2.4	2.7	3.0	3.3	3.6	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10.0	15.0	20.0
C0	C2	4.1	4.1	4.1	3.9	3.7	3.3	2.6									
C90	E25	9.0	10.0	10.8	11.4	12.2	12.8	13.6	14.4	15.2	16.6	17.4	18.2	18.6	18.6	17.4	



### EL-DL3-AS Open Luminaire

(m)		Mounting Heights															
Classification		2.1	2.4	2.7	3.0	3.3	3.6	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10.0	15.0	20.0
C0	E6.3	7.0	7.6	8.0	8.4	8.6	8.8	9.2	9.4	9.4	8.8	8.2	7.0				
C90	E6.3	7.0	7.6	8.0	8.4	8.6	8.8	9.2	9.4	9.4	8.8	8.2	7.0				



### NF89-C-AS High Power Corridor Down Light

(m)		Mounting Heights															
Classification		2.1	2.4	2.7	3.0	3.3	3.6	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10.0	15.0	20.0
C0	D6.3	8.6	8.8	9.0	9.1	9.2	9.2	9.2	9.0	8.7	7.7	5.7					
C90	D32	15.4	16.1	16.7	17.2	17.6	18.0	18.5	19.1	19.5	20.2	20.6	20.7	20.6	20.3	14.6	



### NF89-O-AS High Power Open Space Down Light

(m)		Mounting Heights															
Classification		2.1	2.4	2.7	3.0	3.3	3.6	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10.0	15.0	20.0
C0	E40	9.6	10.6	11.6	12.4	13.2	14.0	15.0	16.0	17.0	18.8	20.2	21.4	22.2	22.8	22.0	18.4
C90	E40	9.6	10.6	11.6	12.4	13.2	14.0	15.0	16.0	17.0	18.8	20.2	21.4	22.2	22.8	22.0	18.4

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