

EMERGENCY LIGHTING

LITHIUM BATTERY



Up to
50% savings
on running
costs v NiCd



Double the
operational life,
so **half the cost**
to maintain



**No toxic
substances**
used in
manufacture



Can be
recycled



NVC ARLINGTON

Versatile LED exit sign with drop blade with multitude of fixing options, for 3 hour maintained operation

Application	Options
Corridors	<p>LEGENDS Alternative legends available as listed - to be ordered as separate items. For "man running through door", use suffix V2, as listed.</p> <p>FIXING ATTACHMENTS Optional fixing attachments to allow:</p> <ul style="list-style-type: none"> • Recessed fixing • Wire Suspension • Side wall mounting <p>SELF - TEST option available (suffix ST) giving built in self test regime of monthly functional test & annual 3-hour full duration test. Visual indicators if there is an issue with the product.</p>
Exits	
Escape routes	

5YR
WARRANTY

3YR
BATTERY



Product Codes	Description
2704113	ARLINGTON 2W LED EM BLADE EXIT SIGN V2 LEGEND ARROW DOWN LITHIUM
2704114	ARLINGTON 2W LED EM BLADE EXIT SIGN V2 LEGEND ARROW RIGHT LITHIUM
2704115	ARLINGTON 2W LED EM BLADE EXIT SIGN V2 LEGEND ARROW LEFT LITHIUM
2704116	ARLINGTON RECESSED MOUNTING KIT
2704117	ARLINGTON SIDE WALL MOUNTING KIT
2704118	ARLINGTON WIRE SUSPENSION KIT

NVC LEXINGTON AND LEXINGTON SLIM

5YR
WARRANTY

3YR
BATTERY



Product Codes	Description LEXINGTON
2704103	LEXINGTON LED EXIT BOX 3W MAINTAINED V2 LEGEND ARROW DOWN LITHIUM
2704104	LEXINGTON LED EXIT BOX 3W MAINTAINED V2 LEGEND ARROW RIGHT LITHIUM
2704105	LEXINGTON LED EXIT BOX 3W MAINTAINED V2 LEGEND ARROW LEFT LITHIUM
Product Codes	Description LEXINGTON SLIM
2704106	LEXINGTON SLIM LED EXIT BOX 3W MAINTAINED V2 LEGEND ARROW DOWN LITHIUM
2704107	LEXINGTON SLIM LED EXIT BOX 3W MAINTAINED V2 LEGEND ARROW RIGHT LITHIUM
2704108	LEXINGTON SLIM LED EXIT BOX 3W MAINTAINED V2 LEGEND ARROW LEFT LITHIUM

EMERGENCY LIGHTING

LITHIUM
IRON PHOSPHATE



UP TO 50% SAVING ON
RUNNING COSTS v NICD



DOUBLE THE OPERATIONAL LIFE,
SO HALF THE COST TO MAINTAIN



NO TOXIC SUBSTANCES
USED IN MANUFACTURE



CAN BE RECYCLED



LITHIUM
IRON PHOSPHATE



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NVC NEBRASKA LITHIUM

IP65 LED slim emergency bulkhead with a range of attachments.

Technical Details

175 lm on mains
133 lm on battery supply
1.9W
3 hours operation on battery power after mains failure
Can be installed as maintained or non-maintained

5YR
WARRANTY

IP
65

3YR
BATTERY



Product Codes	Description
2704216	NEBRASKA 2W LED IP65 MAINTAINED 3HR LITHIUM
SPECIAL ORDER	Nebraska V3 Recessed Mounting Kit

EMERGENCY LIGHTING

LITHIUM
IRON PHOSPHATE



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RUNNING COSTS v NICD



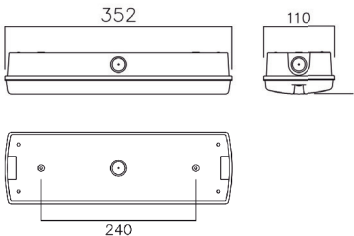
DOUBLE THE OPERATIONAL LIFE,
SO HALF THE COST TO MAINTAIN



NO TOXIC SUBSTANCES
USED IN MANUFACTURE



CAN BE RECYCLED



NVC KANSAS IP20

Twinspot LED IP20 fittings

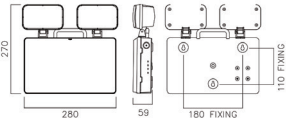
Technical Details

3-hour Non-Maintained
2 x 3W combined body & heads for use from 0°C - +25°C
300 lumens total output

IP
20



Product Codes	Description
2704004	KANSAS LED TWINSLOT IP20 2X3W 300 LUMEN NON MAINTAINED



NVC KANSAS IP65

Twinspot LED IP65 with Self Test.

EMERGENCY LIGHTING

Application

Suitable for general industrial use,
0°C - +35°C

Construction

Injection moulded ABS body

Polycarbonate heads, including lens

Lithium Iron Phosphate (LiFePO4) 3.2V
5500mAh battery

Suitable for mounting in any
orientation

Heads can be rotated & tilted

Piano key terminal block for ease of
installation

Technical Details

3-hour Non-Maintained

2 x 3W body & heads

380 total lumen output

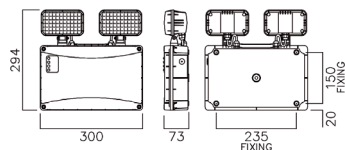
Self-Testing compliant with
BS5266 comprising of a monthly
functional test & an annual 3-hour
duration test

LED indicators show the status of
the Luminaire

IP
65



CHANGING
TO LITHIUM
IN 2021



Product Codes

2704003

Description

KANSAS 2X3W TWINSLOT IP65

NVC SENECA RECESSED

Dedicated LED emergency fittings for recessed mounting.

Application

Corridors

Escape routes

Construction

Moulded polycarbonate body

Acrylic lens

3000mAh battery (not suitable for
use below 0°C)

Technical Details

190 lumens

Non-maintained operation

Choice of two lenses for different
light distributions:
• Wide, giving a circular distribution
• Oval, giving an oval light
distribution. (Supplied loose in the box).

Momentary manual test button fitted

Self-test version, compliant with BS5266
available. Suffix STM3 as listed

5YR
WARRANTY

IP
40

3YR
BATTERY



Product Codes

2704401

SENECA 3W 190 LUMEN RECESSED LED NON MAINTAINED

2704408

SENECA 3W 190 LUMEN SURFACE OPEN PLAN LED NON
MAINTAINED

Description

LITHIUM
IRON PHOSPHATE

UP TO 50% SAVING ON
RUNNING COSTS v NiCd

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NO TOXIC SUBSTANCES
USED IN MANUFACTURE

CAN BE RECYCLED



BENEFITS OF LITHIUM TECHNOLOGY IN EMERGENCY LIGHTING

ARE LITHIUM IRON PHOSPHATE (LFP) BATTERIES SUITABLE FOR EMERGENCY LIGHTING?

Lithium iron phosphate (LiFePO₄, or LFP) are very well suited for use in emergency lighting. When compared with alternatives such as nickel cadmium (NiCd) and nickel metal hydride (NiMH), lithium iron phosphate (LFP) batteries have several advantages:

ENERGY EFFICIENCY. LFP is more efficient than NiCd in two ways.

- **Self Discharge.** All rechargeable batteries lose charge over time, but with LFP the rate is only 3-5% per month. NiCd can lose 15% in the first 24 hours, falling to 10-20% per month (depending on temperature) after that. The result of this is that the charger in an emergency fitting with NiCd or NiMH batteries is working almost continually, whereas the charger in an LFP circuit is working at low current in short and infrequent bursts.
- **Charge Efficiency.** Energy is lost in the form of heat during the charging process of any battery. With LFP the charge efficiency is very high, about 95%. With NiCd the charge efficiency is also very high, but only in the earlier stages of charging.

LONG LIFE

- LFP batteries have little memory effect so their performance remains almost constant till they reach end of life, usually defined as 70% of rated capacity. Typically, an LFP battery will have a life of 8-10 years.
- The performance (power storage) of NiCd and NiMH declines rapidly with every charge/discharge cycle, so they typically need to be changed after 3 or 4 years. The routine testing of emergency lighting required by BS 5266 contributes to shortening the life of NiCd batteries. It is also common for NiCd batteries in new-build projects to fail in their first year of life if they have been fully installed in the construction phase when the mains power would normally be switched off completely overnight. The resulting nightly discharge and daily re-charge degrades the NiCd batteries to the point that they can be due for replacement within the first year of occupation.

EXTREME TEMPERATURE PERFORMANCE

- **High Temperatures.** LFP is unharmed by ambient temperatures up to 60°C, whereas NiCd and NiMH can only tolerate 55°C and 50°C respectively.
- **Low Temperatures,** LFP performs well down to -20°C, but NiCd and NiMH will not deliver the charge needed to run emergency lighting below 0°

ENVIRONMENT

Cadmium is banned under the RoHS Directive because it is a dangerous pollutant.

- Cadmium is highly toxic.
- Cadmium has a limited future use.
- Lithium has a long future ahead.

EMERGENCY LIGHTING

LED is now the preferred light source for all emergency lighting



LOWER MAINTENANCE COSTS

With old fluorescent and incandescent technologies lamps had to be changed regularly. The long life of LEDs means that this is no longer necessary, so maintenance costs are greatly reduced.



RELIABILITY

Fluorescent lamps were never ideally suited to being run on batteries, so blackened lamp ends were a common problem indicating that a lamp was nearing the end of its life. LEDs are well suited to running on battery power and are therefore much more reliable.



BETTER LIGHT DISTRIBUTION

Fitted with a lens, LEDs can give the precise light distribution needed for corridors.

Better light distribution means improved uniformity, better spacing and fewer fittings required to give an installation that conforms to standards.

KELLIHERS ELECTRICAL BALLYMOUNT

M50 Business Park,
Ballymount Road Upper,
Dublin 12
01 4566717

KELLIHERS ELECTRICAL SANDYFORD

Unit E3, 3 Rock Road,
Sandyford Industrial Estate,
Dublin 18
01 2952011

KELLIHERS ELECTRICAL CROKE PARK

Unit G2 Croke Park Industrial Estate,
Russell Street, Dublin 1
01 8554704

KELLIHERS ELECTRICAL FINGLAS

Unit 27 North Park,
North Road, Dublin 11
01 804 1160

KELLIHERS ELECTRICAL CELBRIDGE

Unit G2, M4 Business Park,
Celbridge, Co. Kildare
01 6544260

KELLIHERS ELECTRICAL NAAS

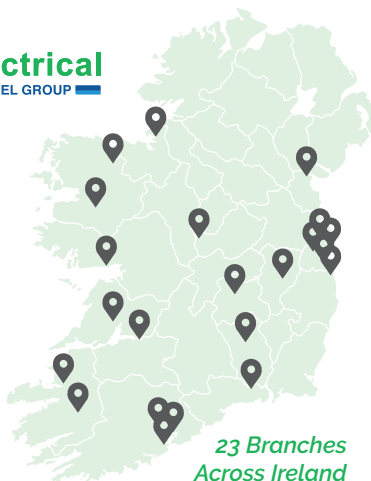
Unit A1, Toughers Industrial Estate,
Newhall, Naas, Kildare
045 447860

KELLIHERS ELECTRICAL PORTLAOISE

Clonminam Industrial Estate,
Portlaoise, Laois
057 8664660

KELLIHERS ELECTRICAL DUNDALK

Ard Easmuinn Road, Dundalk, Louth
042 9327854



KELLIHERS ELECTRICAL BRAY

Unit A3, Old Court Industrial Est. Boghall
Road Bray, Co. Wicklow A98 E221
01 204 2670

KELLIHERS ELECTRICAL KILKENNY

Unit 11A Loughboy Industrial Estate,
Kilkenny
056 7750410

KELLIHERS ELECTRICAL WATERFORD

Tramore Road, Waterford
051 377755

KELLIHERS ELECTRICAL CORK - TRAMORE ROAD

Tramore Road, Cork
021 4704100

KELLIHERS ELECTRICAL CORK - EASTGATE

Units 31-32 East Gate Drive, Eastgate,
Little Island, Cork
021 4296240

KELLIHERS ELECTRICAL CORK - MALLOW ROAD

North Point Business Park,
Mallow Road, Cork
021 4932300



KELLIHERS ELECTRICAL TRALEE

Ballmullen, Tralee, Kerry
066 7145300

KELLIHERS ELECTRICAL KILLARNEY

Ross Road, Killarney, Kerry
064 6633985

KELLIHERS ELECTRICAL LIMERICK

Dock Road, Limerick
061 417442

KELLIHERS ELECTRICAL ENNIS

Unit 9 Quinn Road Business Park,
Ennis, Clare
065 6844233

CT ELECTRIC GALWAY

Sean Mulvoy Road, Galway
091 745300

CT ELECTRIC CASTLEBAR

Castlebar Industrial Estate,
Castlebar, Mayo
094 9023650

CT ELECTRIC BALLINA

Unit 7 Moyvalley Business Park,
Ballina, Mayo
096 60420

CT ELECTRIC SLIGO

Finisklin Industrial Estate, Sligo
071 9145068

CT ELECTRIC ATHLONE

Unit 3 Daneswell Business Park,
Monksland, Athlone
090 6494681