

EMERGENCY LIGHTING



The World's Emergency Lighting Solution



Our customers' needs form the backbone of our design and service thinking process; which is why our emergency lighting and exit signs are unrivalled in the markets, and built to deliver safety measures whenever the situation rises.

Established in 1992, Denko Lighting specialises in the design, development and manufacture of innovative emergency lighting, exit signs and related products.

As one of Singapore's leading manufacturers in the emergency lighting market, Denko Lighting takes pride in product quality, reliability and innovation of emergency lighting products to meet and exceed the needs of both local and overseas customers.

Denko Lighting's products are listed under the Product Listing Scheme – a safety and product quality certification accredited by Singapore – which bears the mark of excellence as required by the international standards. Our quality management system and processes are also ISO 9001:2015 certified, providing customers with confidence and assurance of our products.

On top of delivering customer satisfaction, Denko Lighting is committed to provide and ensure high quality products that dutifully serve the public in times of emergencies and unforeseen circumstances. Denko Lighting is also dedicated on driving continuous business growth through research and development to be economically competitive in the market.

Denko Lighting is also officiated with bizSAFE Level 3, a testament to our Risk Management commitment to Singapore's WSHA initiatives.



Every year, existing and new product line undergo stringent testing to ensure quality control and reduce defects



CERT NO.: 2016-2-2382
ISO 9001 : 2015



PLS Listed



ISO Certified

Fully trained manufacturing and assembly skill-force adhering to international ISO 9001 quality management system standards

Value-Added Service

More than a supplier; we are committed in growing our business partnership with you - from giving emergency lighting workshops to planning emergency lighting installations with Denko solutions using the DIALux lighting design software

Quality Brilliance

Fully compliant to Singapore Safety standards, Denko Lighting products undergo stringent tests by international testing body TÜV SÜD PSB before they are ready to market

Growing Markets

Every year, thousands of Denko Lighting's products are exported to neighboring Southeast Asian countries, and the Middle-east



Our Project Milestones Across Market Segments



Illuminating the path to safety with exit and emergency lighting. With over 25 years of market expertise, Denko Lighting caters to a diverse range of sectors covering all types of indoor and outdoor building installations. These include commercial, industrial, residential, retail, hospitality, government and healthcare sectors. Our full list of project references and overseas projects are available upon request.

Commercial & Industrial

139 Cecil Street
Aperia Tower
Ascendas @ Techlink
ASPIAL CAPITAL
Balestier Tower
Biopolis
BCA-Keppel Land Challenge
Bollere
Certis Cisco
Changi Logistic Center
China Square Central
Creative Technology Ltd
Dentsu Aegis Network
Golden Agri Plaza
IBM - Changi Business Park
IBM Manufacturing
Income @ Raffles
LUXASIA
Mapletree Jurong Logistics Hub
MBS Tower 1 & 2
Mediapolis@One-North
Qualcomm Rf360
Schenker
Solaris @ Kallang 171
The Signature

Education

Australian International School
Canossa Catholic Primary School
Dulwich College International
Eunomia Junior College
Global Indian International School
INSEAD
Lycee Francis School
Mee Toh Primary School
Middleton International School
Nexus International School
National Technology University
National University of Singapore
Nanyang Academy of Fine Arts
Nanyang Girl's School
Paya Lebar Methodist Girls' School
Pei Chun Public School
Rainbow Centre
School of the Arts Singapore (SOTA)
Segar Childcare Centre
Singapore Management University
Singapore Polytechnic
St Andrew's Junior College

Hospitality

Aqueen Heritage Hotel Joo Chiat
Backpackers' Hostel
Four Seasons Resort
Fullerton Bay
Holiday Inn Express
Le Meridien Singapore Sentosa
Park Regis Hotel
Populous Hotel
The Clan Hotel
The Pod Boutique Capsule Hotel

Healthcare

Ang Mo Kio Polyclinic
Balestier Polyclinic
Dover Nursing Home
HCA-HOSPICE CARE
Kandang Kerbau Hospital (KK)
Khoo Teck Puat Hospital
Mount Alvenia Hospital
National Cancer Centre
National Skin Centre
Peacehaven Nursing Home
Seng Kang General Hospital
Singhealth Polyclinic
Starmed Medical Centre
Sunlove Nursing Home
Tan Tock Seng NNI
United Medicare Center

Retail

BIGBOX @ JURONG EAST
CHIJMES
China Square Central
City Square Mall
Decathlon
Fusionopolis
IKEA Alexandra
IKEA Tampines
iSPACE AT SOON LEE STREET
KFC - various locations
KidZania Singapore
KINEX (Previously One KM)
MANDAI FoodLink
Mercedes Benz Center
REEBONZ
Sim Lim Square
Shanghai Pudong Bank
Shaw Centre & Shaw House
Takashimaya
Tampines One
Tanjong Pagar Complex
The Centrepoint
Westgate Shopping Mall
WeWork
WhiteSands

Institution

Airbus Asia Training Centre
Ang Mo Kio Methodist Church
Anguilla Mosque
Arena Country Club
Bishan Fire Station
Bukit Batok Church
Bukit Panjang Community Club
CAG Cargo
Church Of Christ
Food Center @ Bukit Merah Central
Golden Pagoda Buddhist Temple
Hill St Police Station
Jurong Mosque
Mahabodi Monastery
Ministry of Home Affairs

Institution

Pertapis Children's Home
SAFRA Mount Faber
SCDF HQ
Singapore Chinese Orchestra
Singapore Khalsa Association
Sultan Mosque
Toa Payoh Community Centre

Residential (Government)

Anchorvale EC
Bedok Town Centre
Bukit Batok Road N4 C8/C9
BIDADARI C3
Canberra Crescent - Eastlink I & II
Canberra Link EC
Clementi N4C12
Compassvale Bow
Dawson
Lake Vista
Marine Parade Town Council
Macpherson Spring
Melody Spring @ Yishun
Parkland Residences
Rivervale Crescent
Rivervale Gardens
Sembawang EC Condo
Tengah Plantation HDB
Toa Payoh (MSCP 787A)
Treasure Crest @ Sengkang
West Edge @ Bukit Batok
Woodlands Dew
Woodlands Rise

Residential

Altez
Amberskye
Botanique Condo
Caribbean At Keppel Bay
Coco Palms Condo
Eight Courtyards
Fraser Suites Singapore
Grange Residence
Highline Residences
High Park Residences
Latitude Condo
Makena
Nassim Hill
Queens Peak
Regent Heights Tower
River Trees Residences
Spottiswoode Suites
Sturdee Residences
Summerhill Condo
The Draycott Condominium
The Line @ Tanjong Rhu
Venue Residence
Verdure At Holland Park
Waterview
Westwood Residences

General Guide to Emergency Lighting and Exit Sign



Proper usage of emergency lighting can save lives. Our pictorial guideline with actual exit sign and emergency lighting serve as a guide to installers commissioned to install Denko Lighting's solution. These guidelines were based on Singapore Fire Code 2018.



Exit sign placed over the exit door



Directional exit signs in long corridors



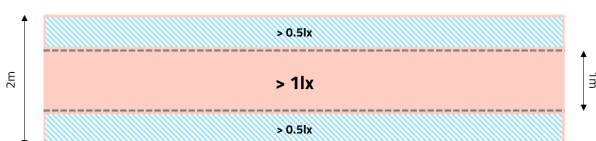
Directional exit signs at each change of direction and in areas where an exit is not readily available



Emergency luminaire at each piece of fire fighting equipment and call point

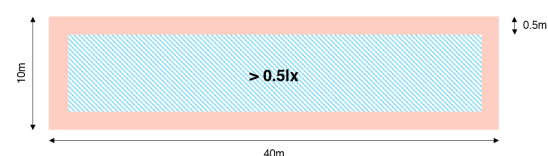
Clause 6 – Escape route lighting

For escape routes up to 2m in width, the horizontal illuminance on the floor along the centre line of an escape route shall not be less than 1lx and the central band consisting of not less than half of the width of the route shall be illuminated to a minimum of 50% of that value.



Clause 7 – In anti-panic and/or open areas

In these areas, the horizontal illuminance shall be not less than 0.5 lux at the floor level at each point of the empty area which excludes a border of 0.5m of the perimeter of the area.



Keen to learn more?

Contact our sales consultants for more information. Denko Lighting's photometric data are also available upon request.

EXIT SIGN



EmFLEX 1602M / RM | PG 8



EmFLEX R1602M / RM | PG 9



EmEX 1602M / RM | PG 10



EmEX R1602M / RM | PG 11



BLEX W2001M / RM | PG 12



BLEX W2001M / RM
RECESSED | PG 13



WLEX 100M / RM | PG 14

Running man pictogram is also available

EMERGENCY LIGHT



EmLED-12NM | PG 15
EmLED-14NM | PG 15



EmLED-110NM | PG 16



EmLED-1430NM | PG 17
EmLED-1445NM | PG 17



EmLED-12NM DRUM | PG 18
EmLED-14NM DRUM | PG 18



EmLED-110NM SURFACE | PG 19



EmCEL 12NM / 12M / 16NM | PG 20



EmDL 203NM | PG 21
EmDL 205NM | PG 21



EmDL 203 WP | PG 22



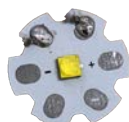
DL 2018NM | PG 23



DL 2301NM & DL 2301NM WP | PG 24



AUX GEM 2 | PG 25



AUX STAR | PG 25



AUX GEM | PG 25



LED-11NM AUX | PG 25
LED-13NM AUX | PG 25

*all images are not drawn to scale

EMERGENCY CONVERSION KIT



LED1880-M | PG 26



FL 140M-EV58 | PG 27

LUMINAIRE



DENKO SMRI | PG 28



DENKO SMSI | PG 28



DENKO SMRC | PG 29



DENKO SMRC | PG 29



DENKO SUNLITE 18 | PG 30

Battery Pack Certifications



Battery packs play a pivotal role in all emergency lighting systems. During AC power failure, the battery pack is automatically activated to power up the emergency lights at the rated duration to guide occupants to safety.

Our rechargeable Ni-Cd and Ni-MH batteries are rated to operate at high temperatures to ensure safety during normal and emergency operations.

Our products are powered by battery packs that are certified compliant to international EN standards with TÜV Rheinland.

Turn to PG 31 to find out more.

Glossary

MAINTAINED MODE (M)

The lamp is energised during normal conditions from main supply. In the event of mains power failure, the same lamp remains on by automatically switching to the integral battery supply.

NON-MAINTAINED MODE (NM)

The lamp is off during normal mains supply and is automatically energised by the integral battery supply in the event of mains power failure.

Symbols



Luminaires suitable for direct mounting on normally flammable surfaces.



Recessed mounted luminaires suitable for mounting on normally flammable surfaces, may not be covered with thermally insulating material.

Class I

Class I luminaire in which protection against electric shock is provided with basic insulation and the connection of accessible conductive parts to the protective (earthing) conductor.



Class II luminaire in which protection against electric shock is provided with both basic insulation and double insulation or reinforced insulation, there being no provision for protective earthing conductor.

EmFLEX 1602M / RM Series

SLIM FLEX LED EMERGENCY EXIT SIGN



Features and Benefits

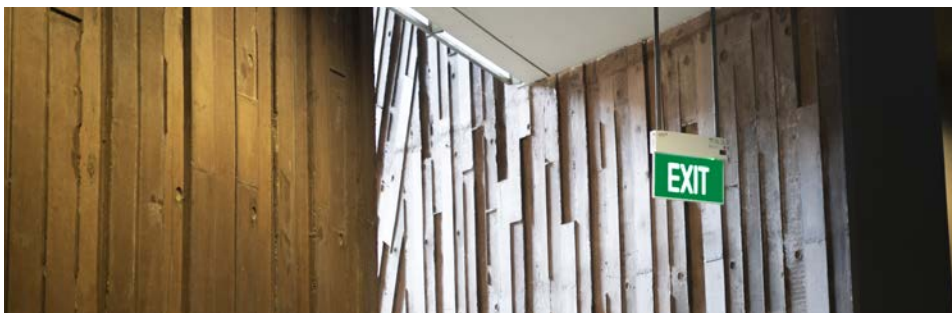
- All new slim and lightweight LED emergency exit signs with option for Exit or Running Man signage.
- Anti-corrosive housing, good for installation in high humidity and damp environment.
- Designed for seamless and hassle-free installation and maintenance.
- Optional snap-on recess plate and bracket available.
- Samsung LED lamps provide high efficiency, durability and low energy consumption.



EmFLEX 1602M

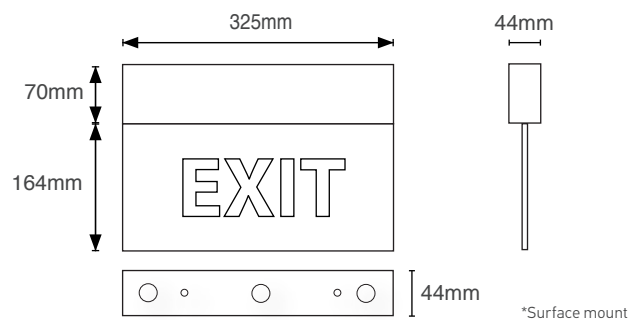


EmFLEX 1602RM



Technical Data

Mode of Operation	Maintained
Lamp	Samsung 2W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	Single-sided: < 4W Double-sided: < 5W
Battery	High temperature Ni-Cd battery
Charger	Fully automatic
Charging Monitor	Ø 5mm green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Injection moulded fire retardant polycarbonate
Weight (Nett/Gross)	Single-sided: 0.6 kg / 0.8 kg Double-sided: 0.86kg / 1.06kg
Compliance	SS 563-1:2010 SS 563-2:2010/A1:2013 SS IEC 60598-2-22:2016
Installation	Ceiling, wall or pendant mounting
Cable Entry	3 x 20mm Ø knockout hole
IP Rating	IP30
Legend	White text/graphical symbol over ISO green background
Viewing Distance	30 m
Warranty	1 year



Ordering Information

MODEL	LEGEND	MODEL	LEGEND
EmFLEX 1602M		EmFLEX 1602RM	
EmFLEX 1602M-E		EmFLEX 1602RM-E	
EmFLEX 1602M-T		EmFLEX 1602RM-T	
EmFLEX 1602M-D (Double-sided with arrow)		EmFLEX 1602RM-D (Double-sided)	
EmFLEX 1602M-DX (Double-sided without arrow)		EmFLEX 1602RM-D-AD (Double-sided with arrow down)	
EmFLEX 1602RM-AD		EmFLEX 1602RM-D-AU (Double-sided with arrow up)	
EmFLEX 1602RM-AU		EmFLEX 1602RM-DX (Double-sided without arrow)	

EmFLEX R1602M / RM Recessed Series

SLIM FLEX LED EMERGENCY EXIT SIGN



Features and Benefits

- All new slim and lightweight LED emergency exit signs with newly designed snap-on recess plate.
- Anti-corrosive housing, good for installation in high humidity and damp environment.
- Available in Exit or Running Man signage.
- Designed for seamless and hassle-free installation and maintenance.
- Samsung LED lamps provide high efficiency, durability and low energy consumption.

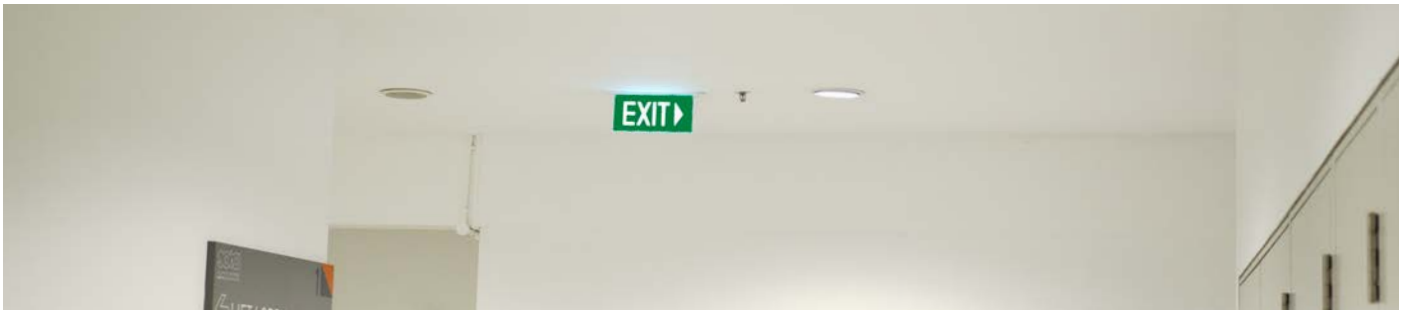


EmFLEX R1602M

EmFLEX R1602RM

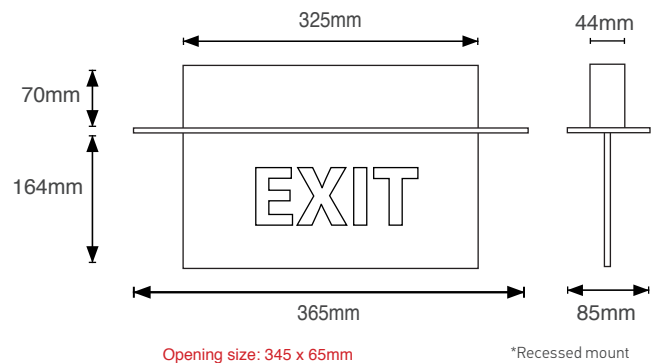


Recess plate



Technical Data

Mode of Operation	Maintained
Lamp	Samsung 2W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	Single-sided: < 4W Double-sided: < 5W
Battery	High temperature Ni-Cd battery
Charger	Fully automatic
Charging Monitor	Ø 5mm green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Injection moulded fire retardant polycarbonate
Weight (Nett/Gross)	Single-sided: 0.7kg / 0.98kg Double-sided: 0.96kg / 1.16kg
Compliance	SS 563-1:2010 SS 563-2:2010/A1:2013 SS IEC 60598-2-22:2016
Installation	Recessed mounting
Cable Entry	3 x 20mm Ø knockout hole
IP Rating	IP30
Legend	White text/graphical symbol over ISO green background
Viewing Distance	30 m
Warranty	1 year



Ordering Information

MODEL	LEGEND	MODEL	LEGEND
EmFLEX R1602M		EmFLEX R1602RM	
EmFLEX R1602M-E		EmFLEX R1602RM-E	
EmFLEX R1602M-T		EmFLEX R1602RM-T	
EmFLEX R1602M-D (Double-sided with arrow)	 	EmFLEX R1602RM-D (Double-sided)	
EmFLEX R1602M-DX (Double-sided without arrow)	 	EmFLEX R1602RM-D-AD (Double-sided with arrow down)	
EmFLEX R1602RM-AD		EmFLEX R1602RM-D-AU (Double-sided with arrow up)	
EmFLEX R1602RM-AU		EmFLEX R1602RM-DX (Double-sided without arrow)	

EmEX 1602M / RM Series

X SLIM LED EMERGENCY EXIT SIGN

Features and Benefits

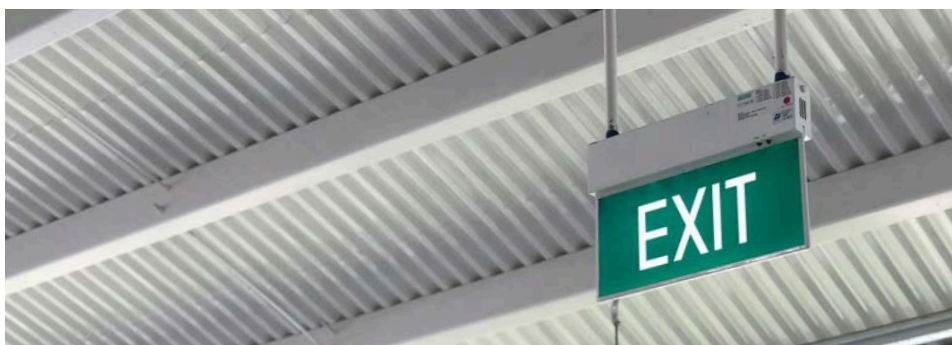
- New slim housing LED emergency exit signs with option for Exit or Running Man signage.
- Designed for easy installation and maintenance.
- Optional recess plate and bracket available.
- Samsung LED lamps provide high efficiency, durability and low energy consumption.



EmEX 1602M

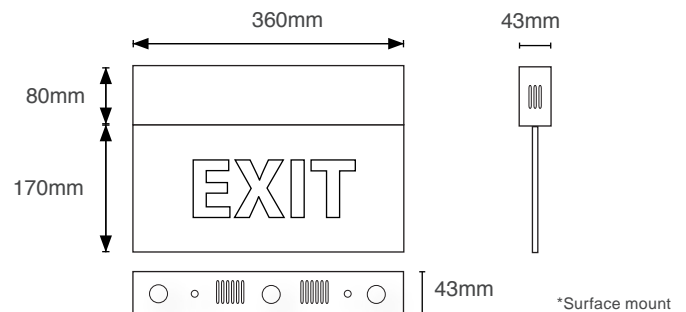


EmEX 1602RM



Technical Data

Mode of Operation	Maintained
Lamp	Samsung 2W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	< 4W
Battery	High temperature Ni-Cd battery
Charger	Fully automatic
Charging Monitor	Ø 5mm green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing with epoxy powder coating
Weight (Nett/Gross)	1.2 kg / 1.4 kg
Compliance	SS 563-1:2010 SS 563-2:2010/A1:2013 SS IEC 60598-2-22:2016
Installation	Ceiling, wall or pendant mounting
Cable Entry	3 x 20mm Ø knockout hole
IP Rating	IP20
Legend	White text/graphical symbol over ISO green background
Viewing Distance	32 m
Warranty	1 year



Ordering Information

MODEL	LEGEND	MODEL	LEGEND
EmEX 1602M		EmEX 1602RM	
EmEX 1602M-E		EmEX 1602RM-E	
EmEX 1602M-T		EmEX 1602RM-T	
EmEX 1602M-D (Double-sided with arrow)		EmEX 1602RM-D (Double-sided)	
EmEX 1602M-DX (Double-sided without arrow)		EmEX 1602RM-D-AD (Double-sided with arrow down)	
EmEX 1602RM-AD		EmEX 1602RM-D-AU (Double-sided with arrow up)	
EmEX 1602RM-AU		EmEX 1602RM-DX (Double-sided without arrow)	

EmEX R1602M / RM Recessed Series

X SLIM LED EMERGENCY EXIT SIGN

Features and Benefits

- New slim housing LED emergency exit signs with recess plate and bracket.
- Available in Exit or Running Man signage.
- Designed for easy installation and maintenance.
- Samsung LED lamps provide high efficiency, durability and low energy consumption.



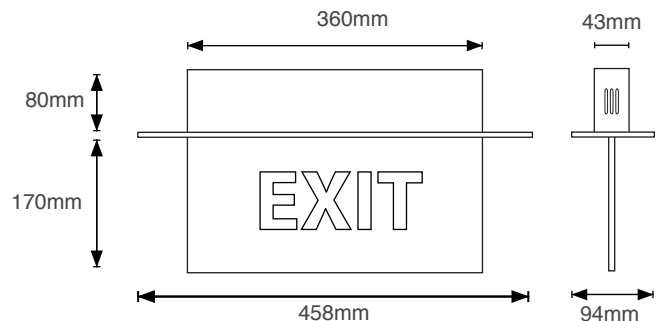
EmEX R1602M

EmEX R1602RM



Technical Data

Mode of Operation	Maintained
Lamp	Samsung 2W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	< 4W
Battery	High temperature Ni-Cd battery
Charger	Fully automatic
Charging Monitor	Ø 5mm green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing with epoxy powder coating
Weight (Nett/Gross)	1.5 kg / 1.7 kg
Compliance	SS 563-1:2010 SS 563-2:2010/A1:2013 SS IEC 60598-2-22:2016
Installation	Recessed mounting
Cable Entry	3 x 20mm Ø knockout hole
IP Rating	IP20
Legend	White text/graphical symbol over ISO green background
Viewing Distance	32 m
Warranty	1 year



Ordering Information

MODEL	LEGEND	MODEL	LEGEND
EmEX R1602M		EmEX R1602RM	
EmEX R1602M-E		EmEX R1602RM-E	
EmEX R1602M-T		EmEX R1602RM-T	
EmEX R1602M-D (Double-sided with arrow)		EmEX R1602RM-D (Double-sided)	
EmEX R1602M-DX (Double-sided without arrow)		EmEX R1602RM-D-AD (Double-sided with arrow down)	
EmEX R1602RM-AD		EmEX R1602RM-D-AU (Double-sided with arrow up)	
EmEX R1602RM-AU		EmEX R1602RM-DX (Double-sided without arrow)	

BLEX W2001M / RM Series

LED BOX EMERGENCY EXIT SIGN

Features and Benefits

- Self contained emergency exit sign encased in a slim box.
- Options for Exit or Running Man signage available.
- Suitable for installation on wall, ceiling or pendant mounting.
- LED lamps provide high efficiency, durability and low energy consumption.



BLEX W2001M

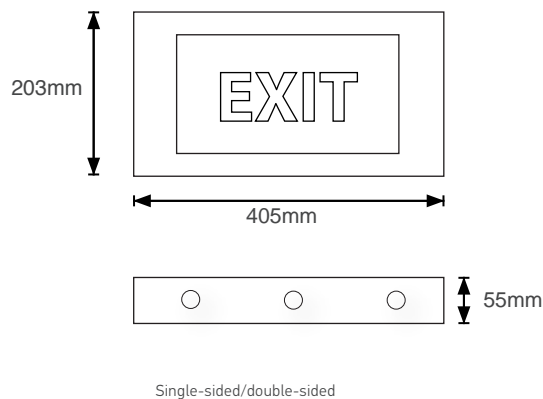


BLEX W2001RM



Technical Data

Mode of Operation	Maintained
Lamp	2W Samsung High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50/60Hz
Power Consumption	< 4W
Battery	High temperature Ni-Cd battery
Charger	Fully automatic
Charging Monitor	Ø 5mm green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing with epoxy powder coating
Weight (Nett/Gross)	1.9 kg / 2.1 kg
Compliance	SS 563-1:2010 SS 563-2:2010/A1:2013 SS IEC 60598-2-22:2016
Installation	Ceiling, wall or pendant mounting
Cable Entry	4 x 20mm Ø knockout hole
IP Rating	IP20
Legend	White text/graphical symbol over ISO green background
Viewing Distance	33 m
Warranty	1 year



Ordering Information

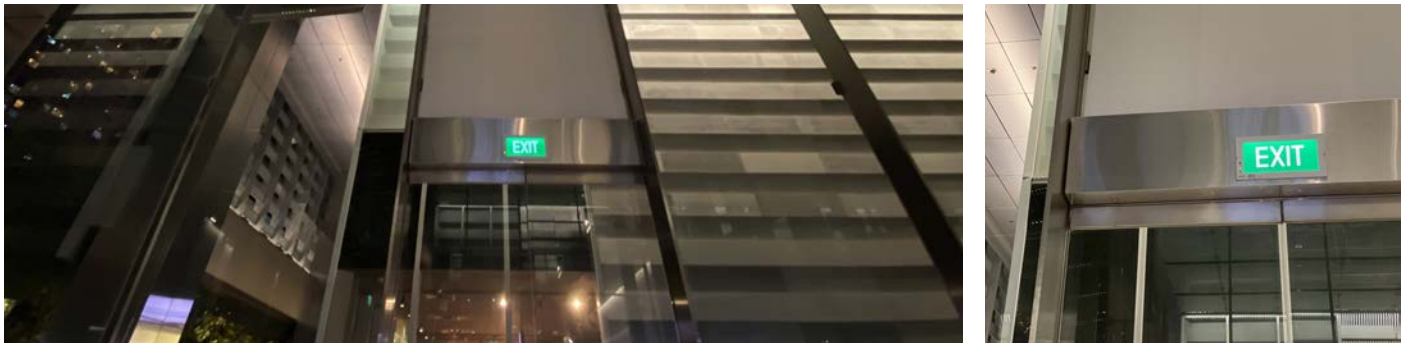
EXIT	LEGEND	RUNNING MAN	LEGEND
BLEX W2001M		BLEX W2001RM	
BLEX W2001M-E		BLEX W2001RM-E	
BLEX W2001M-T		BLEX W2001RM-T	
BLEX W2001M-D (Double-sided)		BLEX W2001RM-D (Double-sided)	

BLEX W2001M / RM Recessed Series

LED RECESSED BOX EMERGENCY EXIT SIGN

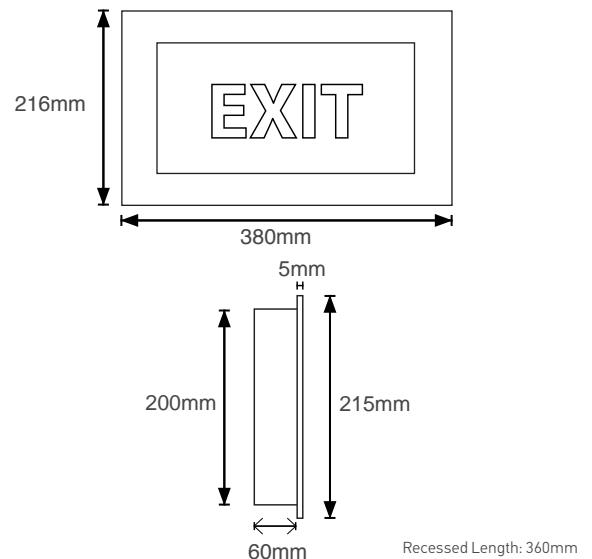
Features and Benefits

- Self contained emergency exit sign encased in a slim box.
- Specially designed for recessed wall mounting.
- Options for Exit or Running Man signage available.
- LED lamps provide high efficiency, durability and low energy consumption.



Technical Data

Mode of Operation	Maintained
Lamp	2W Samsung High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50/60Hz
Power Consumption	< 4W
Battery	High temperature Ni-Cd battery
Charger	Fully automatic
Charging Monitor	Ø 5mm green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing with epoxy powder coating
Weight (Nett/Gross)	2.5 kg / 2.7 kg
Compliance	SS 563-1:2010 SS 563-2/A1:2013 SS IEC 60598-2-22:2016
Installation	Recessed wall mounting
Cable Entry	4 x 20mm Ø knockout hole
IP Rating	IP20
Legend	White text/graphical symbol over ISO green background
Viewing Distance	30 m
Warranty	1 year



Ordering Information

EXIT	LEGEND	RUNNING MAN	LEGEND
BLEX W2001M Recessed		BLEX W2001RM Recessed	
BLEX W2001M-E Recessed		BLEX W2001RM-E Recessed	
BLEX W2001M-T Recessed		BLEX W2001RM-T Recessed	

WLEX 100M / RM Series

WEATHERPROOF EMERGENCY EXIT SIGN

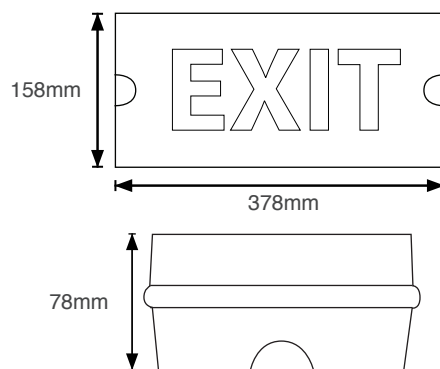
Features and Benefits

- IP65 weatherproof self contained emergency exit sign approved and certified by TÜV SÜD PSB.
- Options for Exit or Running Man signage available.
- Ideal for outdoor areas such as dusty, humid and corrosive environments including car parks, loading bays, workshops, laboratories and corridor areas.
- LED lamps provide high efficiency, durability and low energy consumption.



Technical Data

Mode of Operation	Maintained
Lamp	2W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50/60Hz
Power Consumption	< 4W
Battery	High temperature Ni-Cd battery
Charger	Fully automatic
Charging Monitor	Ø 5mm green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Injection moulded fire retardant polycarbonate
Weight (Nett/Gross)	1.2 kg / 1.3 kg
Compliance	SS 563-1:2010 SS 563-2:2010/A1:2013 SS IEC 60598-2-22:2016
Installation	Wall or pendant mounting
IP Rating	IP65 rated TÜV SÜD PSB certified*
Legend	White text/graphical symbol over ISO green background
Viewing Distance	30 m
Warranty	1 year



Ordering Information

EXIT	LEGEND	RUNNING MAN	LEGEND
WLEX 100M		WLEX 100RM	
WLEX 100M-E		WLEX 100RM-E	
WLEX 100M-T		WLEX 100RM-T	

Remarks

* For Weatherproof (IP65) installation, a cable gland (PG9 to PG13.5) is required for the AC incoming cable entry to ensure IP65 rating.

EmLED-12NM / EmLED-14NM

EASI LED RECESSED EMERGENCY LIGHT

Features and Benefits

- Compact all-in-one, self-contained LED emergency light designed for easy and quick recessed installation on ceiling.
- Includes an optional large ring adapter.
- Suitable for various indoor environments such as retail, commercial, hospitality and healthcare industries.
- LED lamps provide high efficiency, durability and low energy consumption.



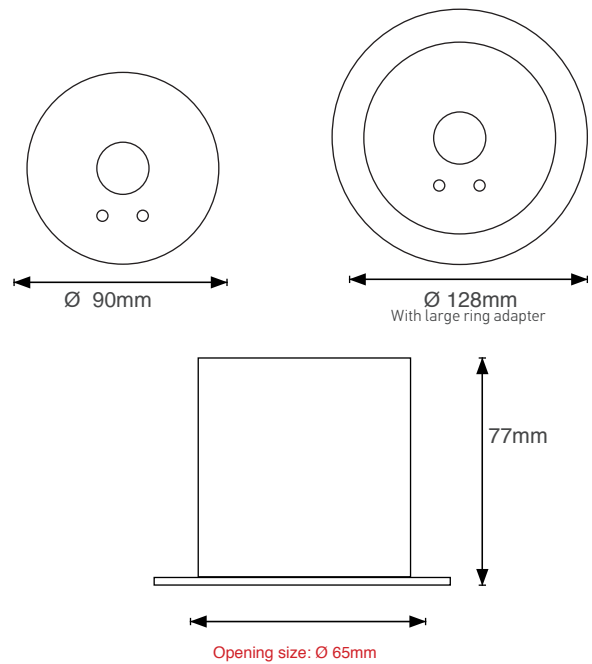
EmLED-12NM
EmLED-14NM

EmLED-12NM
with large ring adapter
EmLED-14NM
with large ring adapter



Technical Data

Mode of Operation	Non-maintained
Lamp	Samsung 2W/4W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	EmLED-12NM: < 1W EmLED-14NM: < 2W
Battery	EmLED-12NM: Ni-Cd battery EmLED-14NM: Ni-MH battery
Charger	Fully automatic
Charging Monitor	Green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Injection moulded fire retardant polycarbonate
Weight (Nett/Gross)	EmLED-12NM: 0.20 kg / 0.28 kg EmLED-14NM: 0.28 kg / 0.34 kg
Compliance	SS 563-1:2010 SS 563-2:2010/A1:2013 SS IEC 60598-2-22:2016 SS IEC 60598-1:2016
Installation	Recessed mount
IP Rating	IP20
Warranty	1 year



Ordering Information

MODEL	LAMP
EmLED-12NM	Samsung 2W High flux white LED
EmLED-14NM	Samsung 4W High flux white LED

EmLED-110NM

VENUS LED 10W RECESSED EMERGENCY LIGHT

Application: Ceiling height above 8-metre

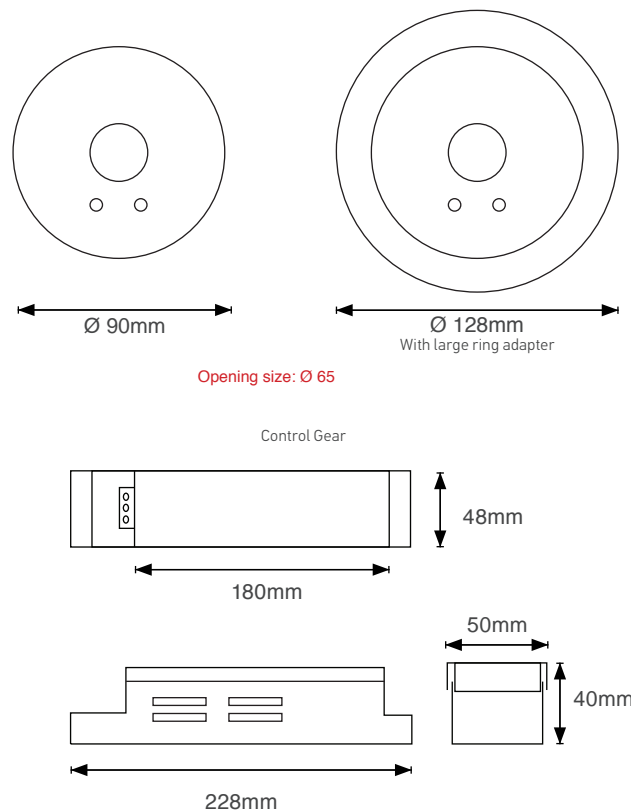
Features and Application

- High lumens self-contained LED emergency light designed for easy and quick recessed installation on high ceilings.
- Includes an optional large ring adapter.
- Suitable for various indoor environments such as retail, commercial, hospitality and healthcare industries.
- LED lamps provide high efficiency, durability and low energy consumption.



Technical Data

Mode of Operation	Non-maintained
Lamp	Samsung 10W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	< 3W
Battery	High temperature Ni-MH battery
Charger	Fully automatic
Charging Monitor	Green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	2 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Disc: Polycarbonate
	Control gear: Electro-galvanised steel casing
Weight (Nett/Gross)	Surface: Aluminium casing with epoxy powder coating
	Disc: 0.1 kg / 0.15 kg Control gear: 0.52 kg / 0.57 kg
Compliance	SS 563-1:2010
	SS 563-2:2010/A1:2013
	SS IEC 60598-2-22:2016
	SS IEC 60598-1:2016
Installation	Recessed mount
IP Rating	IP20
Warranty	1 year



Ordering Information

MODEL	LAMP
EmLED-110NM	Samsung 10W High flux white LED

EmLED-1430NM / EmLED-1445NM

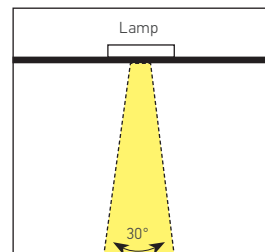
NARROW BEAM 4W LED MINI RECESSED EMERGENCY LIGHT

Application: Ceiling height above 6-metre

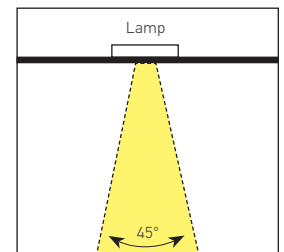


Features and Benefits

- High lumens self-contained LED emergency light with narrow beam optic lens for recessed installation on high ceilings for increased and focused light throw.
- Aesthetically designed with smaller footprint for easy installation.
- Includes an optional square adapter.
- Suitable for various indoor environments such as retail, commercial, hospitality and healthcare industries.
- LED lamps provide high efficiency, durability and low energy consumption.



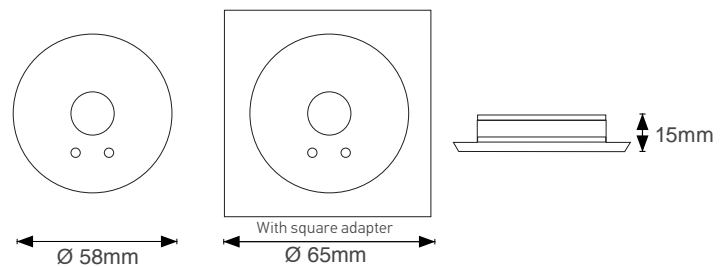
EmLED-1430NM



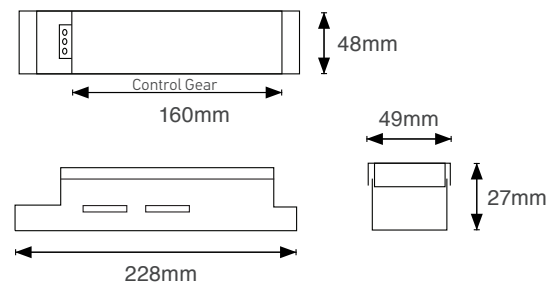
EmLED-1445NM

Technical Data

Mode of Operation	Non-maintained
Lamp	Samsung 4W High flux white LED with 30°/45° narrow beam optic lens
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	< 2W
Battery	High temperature Ni-MH battery
Charger	Fully automatic
Charging Monitor	Green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Disc: Polycarbonate Control gear: Electro-galvanised steel casing Surface: Aluminium casing with epoxy powder coating
Weight (Nett/Gross)	Disc: 0.04 kg Control gear: 0.38 kg / 0.43 kg
Compliance	SS 563-1:2010 SS 563-2:2010/A1:2013 SS IEC 60598-2-22:2016 SS IEC 60598-1:2016
Installation	Recessed mount
IP Rating	IP20
Warranty	1 year



Opening size: Ø 52 - 55mm



Ordering Information

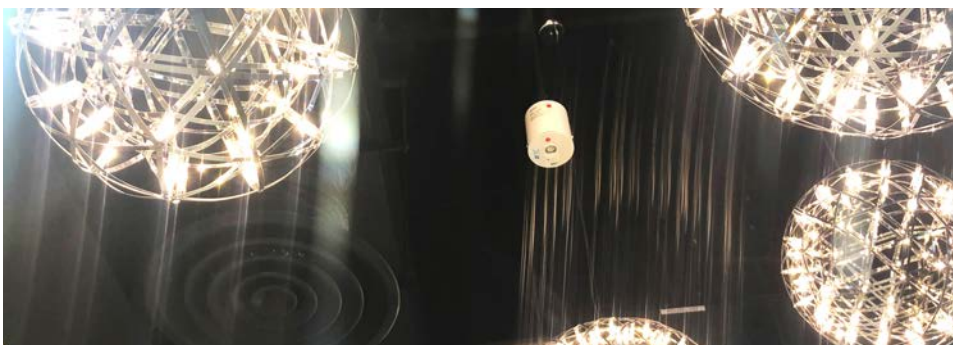
MODEL	LAMP
EmLED-1430NM	Samsung 4W high flux white LED with 30° narrow beam optic lens
EmLED-1445NM	Samsung 4W high flux white LED with 45° narrow beam optic lens

EmLED-12NM DRUM / EmLED-14NM DRUM

EASI LED SURFACE EMERGENCY LIGHT

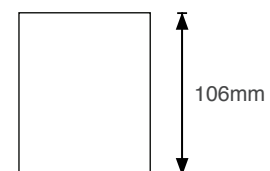
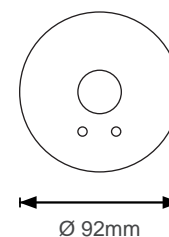
Features and Application

- New compact all-in-one, self-contained LED emergency light for surface installation on ceilings designed for easy installation and usage.
- Suitable for various indoor environments such as retail, commercial, hospitality and healthcare industries.
- LED lamps provide high efficiency, durability and low energy consumption.



Technical Data

Mode of Operation	Non-maintained
Lamp	Samsung 2W/4W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	EmLED-12NM DRUM: < 1W EmLED-14NM DRUM: < 2W
Battery	EmLED-12NM DRUM: Ni-Cd battery EmLED-14NM DRUM: Ni-MH battery
Charger	Fully automatic
Charging Monitor	Green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Polycarbonate
Weight (Nett)	EmLED-12NM DRUM: 0.28 kg EmLED-14NM DRUM: 0.36 kg
Compliance	SS 563-1:2010 SS 563-2:2010/A1:2013 SS IEC 60598-2-22:2016 SS IEC 60598-1:2016
Installation	Surface mount
IP Rating	IP20
Warranty	1 year



Ordering Information

MODEL	LAMP
EmLED-12NM DRUM	Samsung 2W High flux white LED
EmLED-14NM DRUM	Samsung 4W High flux white LED

EmLED-110NM SURFACE

VENUS LED 10W SURFACE EMERGENCY LIGHT

Application: Ceiling height above 8-metre

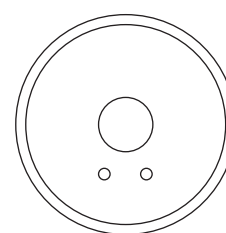
Features and Application

- New high lumens self-contained LED emergency light for surface installation.
- Suitable for various indoor environments such as retail, commercial, hospitality and healthcare industries.
- LED lamps provide high efficiency, durability and low energy consumption.

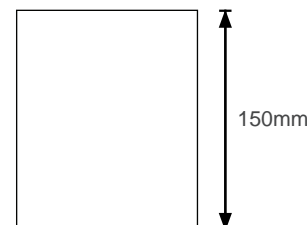


Technical Data

Mode of Operation	Non-maintained
Lamp	Samsung 10W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	< 3W
Battery	High temperature Ni-MH battery
Charger	Fully automatic
Charging Monitor	Green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	2 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Disc: Polycarbonate Surface: Aluminium casing with epoxy powder coating
Weight (Nett/Gross)	0.82 kg / 0.92 kg
Compliance	SS 563-1:2010 SS 563-2:2010/A1:2013 SS IEC 60598-2-22:2016 SS IEC 60598-1:2016
Installation	Surface mount
IP Rating	IP20
Warranty	1 year



Ø 126mm



150mm

Ordering Information

MODEL	LAMP
EmLED-110NM SURFACE	Samsung 10W High flux white LED

EmCEL 12NM / EmCEL 12M / EmCEL 16NM

IP65 WEATHERPROOF LED COMPACT EMERGENCY LIGHT

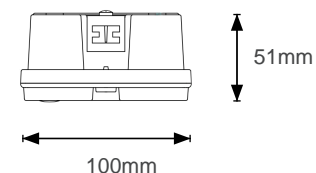
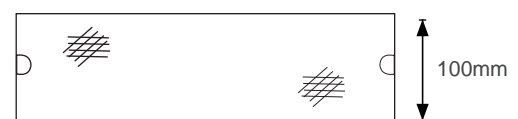
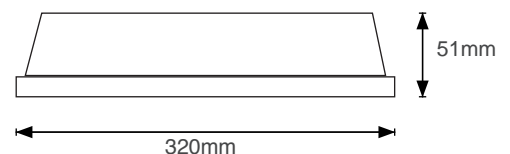
Features and Application

- Self-contained LED emergency light with new slim and lightweight design.
- Easy installation with optional recess mounting spring clips included.
- LED lamps provide high efficiency, durability and low energy consumption.
- Weatherproof IP65 rated TÜV SÜD PSB certified, ideal for outdoor installations in dusty, humid and corrosive environments including car parks, loading bays, workshops, laboratories and corridor areas.



Technical Data

Mode of Operation	Non-maintained / Maintained
Lamp	Samsung 2W/6W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	EmCEL 12NM: < 1W EmCEL 12M: < 2W EmCEL 16NM: < 2W
Battery	High temperature Ni-Cd/Ni-MH battery
Charger	Fully automatic
Charging Monitor	Green LED
Recharge Period	24 hours
Testing Facility	Push button for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery Injection moulded fire retardant polycarbonate housing with clear reeded diffuser
Construction	
Weight (Nett/Gross)	0.55 kg / 0.75 kg
Compliance	SS 563-1:2010 SS 563-2/A1:2013 SS IEC 60598-2-22:2016 SS IEC 60598-1:2016
Installation	Ceiling, wall or recessed mounting
Cable Entry	3 x 20mm Ø knockout hole
IP Rating	IP65 rated TÜV SÜD PSB certified*
Warranty	1 year



Ordering Information

MODEL	LAMP	MODE
EmCEL 12NM	2W	Non-maintained
EmCEL 12M	2W	Maintained
EmCEL 16NM	6W	Non-maintained

Remarks

* For Weatherproof (IP65) installation, a cable gland (PG9 to PG13.5) is required for the AC incoming cable entry to ensure IP65 rating.

EmDL 203NM / EmDL 205NM

LED TWIN-FLOOD EMERGENCY LIGHT

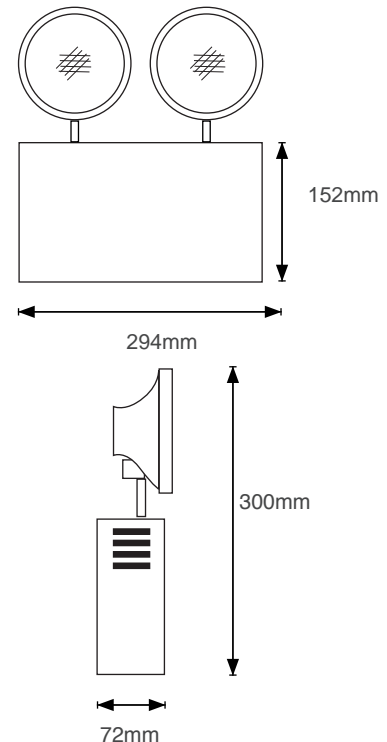
Features and Application

- Dual 3W/5W LED self-contained emergency light.
- Adjustable lamp heads to project light in desired position.
- Robust steel housing to provide good protection.



Technical Data

Mode of Operation	Non-maintained
Lamp	Samsung 2 x 3W/5W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	EmDL 203NM: < 2W EmDL 205NM: < 3W
Battery	High temperature Ni-Cd battery
Charger	Fully automatic
Charging Monitor	Ø 5mm green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Casing - Electro-galvanised steel casing with epoxy powder coating Lamphead - High temperature polycarbonate
Weight	EmDL 203NM: 1.55 kg / 1.75 kg EmDL 205NM: 1.7 kg / 1.9 kg
Compliance	SS 563-1:2010 SS 563-2/A1:2013 SS IEC 60598-2-22:2016 SS IEC 60598-1:2016
Installation	Wall or pendant mounting
Cable Entry	1 x 20mm Ø knockout hole
IP Rating	IP20
Warranty	1 year



Ordering Information

MODEL	LAMP
EmDL 203NM	Samsung 2 x 3W High flux white LED
EmDL 205NM	Samsung 2 x 5W High flux white LED

EmDL 203NM WP

LED TWIN-FLOOD IP65 WEATHERPROOF EMERGENCY LIGHT

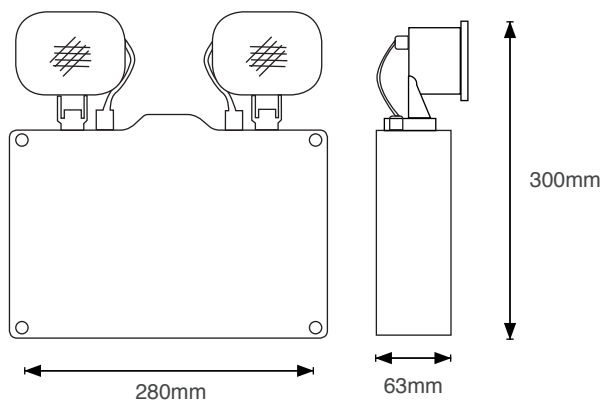
Features and Application

- Weatherproof housing with dual 3W LED self-contained emergency light.
- Adjustable lamp heads to project light in desired position.
- Robust, fire-retardant and weatherproof polycarbonate housing ideal for outdoor operation.
- Weatherproof IP65 rated TÜV SÜD PSB certified, ideal for outdoor installations in dusty, humid and corrosive environments including car parks, loading bays, workshops, laboratories and corridor areas.



Technical Data

Mode of Operation	Non-maintained
Lamp	Samsung 2 x 3W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	< 2W
Battery	High temperature Ni-Cd battery
Charger	Fully automatic
Charging Monitor	Ø 5mm green LED
Lamp Circuit Continuity Monitor	Ø 5mm green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Polycarbonate
Weight (Nett/Gross)	1.8 kg / 2 kg
Compliance	SS 563-1:2010 SS 563-2/A1:2013 SS IEC 60598-2-22:2016 SS IEC 60598-1:2016
Installation	Wall or pendant mounting
Cable Entry	1 x 20mm Ø knockout hole
IP Rating	IP65 rated TÜV SÜD PSB certified*
Warranty	1 year



Ordering Information

MODEL	LAMP
EmDL 203NM WP	Samsung 2 x 3W High flux white LED

Remarks

* For Weatherproof (IP65) installation, a cable gland (PG9 to PG13.5) is required for the AC incoming cable entry to ensure IP65 rating.

DL 2018NM

SAFEGWAY LED TWIN EMERGENCY LIGHT

Features and Application

- Self-contained dual lamp LED emergency light.
- Twin head lamps can be rotated to allow flexible positioning of lights into various directions.
- LED lamps provide high efficiency, durability and low energy consumption.
- Suitable for indoor installations such as staircases, walk ways, car parks, warehouses, etc.

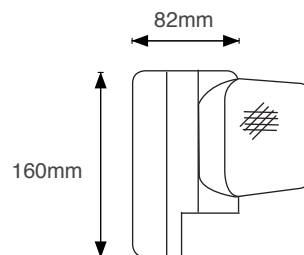
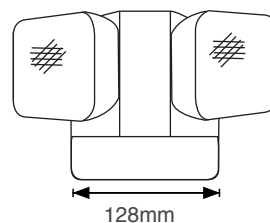


PLS Listed
Emergency
Lighting



Technical Data

Mode of Operation	Non-maintained
Lamp	2 x 3W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	< 2W
Battery	High temperature Ni-Cd battery
Charger	Fully automatic
Charging Monitor	Ø 5mm green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Injection moulded fire retardant polycarbonate housing
Weight (Nett/Gross)	0.8 kg / 1 kg
Compliance	SS 563-1:2010 SS 563-2/A1:2013 SS IEC 60598-2-22:2016 SS IEC 60598-1:2016
Installation	Wall or pendant mounting
Cable Entry	Standard 20mm Ø knockout hole
IP Rating	IP20
Warranty	1 year



Ordering Information

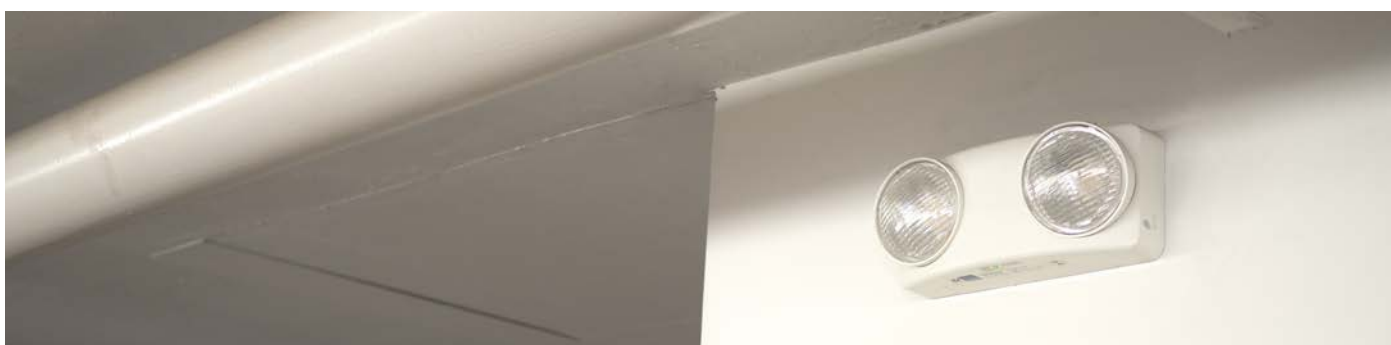
MODEL	LAMP
DL 2018NM	2 x 3W High flux white LED

DL 2301NM / DL 2301NM WP

DECORATIVE LED TWIN-FLOOD EMERGENCY LIGHT

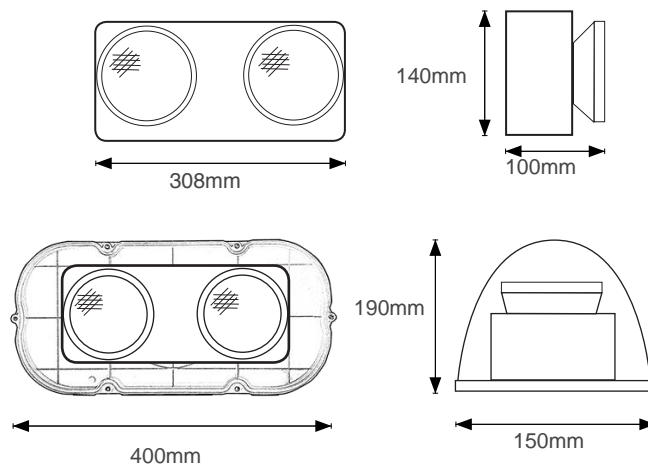
Features and Application

- Self-contained LED dual lamp emergency light.
- LED lamps provide high efficiency, durability and low energy consumption.
- Weatherproof version is housed in a IP65 rated polycarbonate capsule and certified by TÜV SÜD PSB, ideal for outdoor areas such as dusty, humid and corrosive environments including car parks, loading bays, workshops, laboratories and corridor areas.



Technical Data

Mode of Operation	Non-maintained
Lamp	2 x 3W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	< 2W
Battery	High temperature Ni-Cd battery
Charger	Fully automatic
Charging Monitor	Ø 5mm green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Casing / Weatherproof capsule - Injection moulded fire retardant polycarbonate
Weight (Nett/Gross)	DL 2301NM: 1 kg / 1.1 kg DL 2301NM WP: 1.7 kg / 2 kg
Compliance	SS 563-1:2010 SS 563-2/A1:2013 SS IEC 60598-2-22:2016 SS IEC 60598-1:2016
Installation	Wall or pendant mounting
Cable Entry	Standard 20mm Ø knockout hole
IP Rating	DL 2301NM: IP20 DL 2301NM WP: IP65 rated TÜV SÜD PSB certified*
Warranty	1 year



Ordering Information

MODEL	LAMP
DL 2301NM	3W High flux white LED
DL 2301NM WP	3W High flux white LED

Options

- Standard
- Weatherproof Capsule

Remarks

* For Weatherproof (IP65) installation, a cable gland (PG9 to PG13.5) is required for the AC incoming cable entry to ensure IP65 rating.

LED-11NM AUX / LED-13NM AUX

LED AUXILIARY EMERGENCY LIGHT

Features and Application

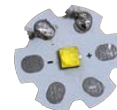
- Stand-alone LED self-contained emergency light solution for auxiliary installation with various types of light fittings.
- LED lamps provide high efficiency, durability and low energy consumption.
- Easy installation with various types of light fittings.
- Self-reliant and independent emergency light regardless of luminaire's operability.



AUX GEM



AUX GEM 2

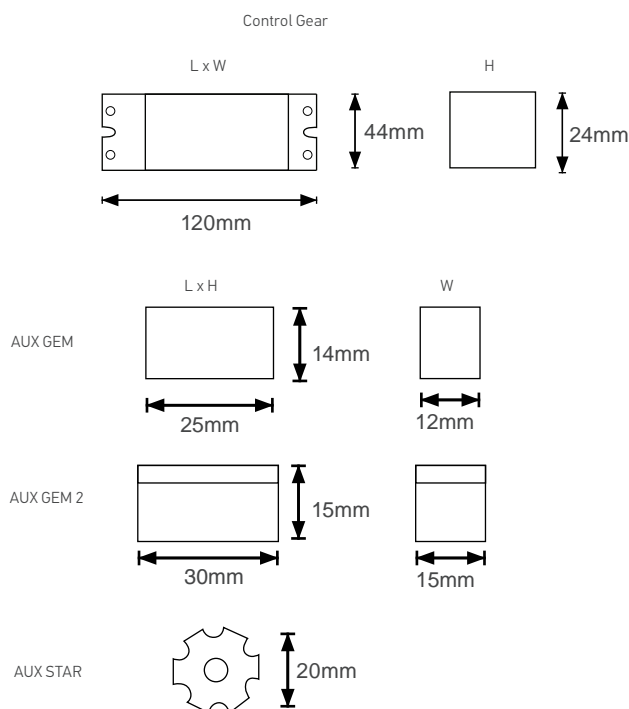


AUX STAR



Technical Data

Mode of Operation	Non-maintained
Lamp	LED-11NM AUX: 2W Samsung High flux white LED LED-13NM AUX: 3W Samsung High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	LED-11NM AUX: < 1W LED-13NM AUX: < 2W
Battery	LED-11NM AUX: High temperature Ni-Cd battery LED-13NM AUX: High temperature Ni-MH battery
Charger	Fully automatic
Charging Monitor	Ø 5mm green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Control gear - Electro-galvanised steel casing with epoxy powder coating AUX GEM - Aluminium AUX GEM 2 - Polycarbonate AUX STAR - Aluminium based PCB
Weight (Nett/Gross)	Control gear: 0.24 kg / 0.29 kg
Compliance	SS 563-1:2010 SS 563-2/A1:2013; SS IEC 60598-2-22:2016 SS IEC 60598-1:2016
IP Rating	IP20
Warranty	1 year



Ordering Information

MODEL	LAMP
LED-11NM AUX GEM	2W Samsung High flux white LED
LED-11NM AUX GEM2	2W Samsung High flux white LED
LED-11NM AUX STAR	2W Samsung High flux white LED
LED-13NM AUX GEM2	3W Samsung High flux white LED

LED1880-M

LED EMERGENCY CONVERSION KIT

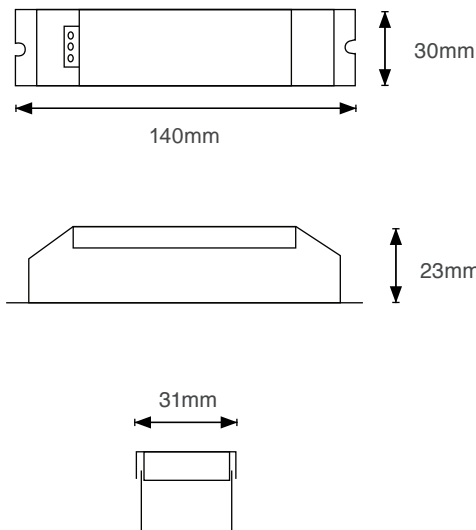
Features and Application

- Self-contained emergency conversion kit designed to strike various types of LED modules.
- High efficiency conversion unit providing long backup duration.
- High compatibility with wide range of LED modules.



Technical Data

Mode of Operation	Maintained
LED Modules Compatibility	LED modules 10Vdc - 110Vdc
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50/60Hz, Protection against polarity reversal
Power Consumption	< 2W
Battery	High temperature Ni-Cd battery
Charger	Fully automatic
Charging Monitor	Green LED
Recharge Period	24 hrs
Testing Facility	Test-switch for independent testing
Emergency Duration	3 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing with epoxy powder coating
Weight (Nett/Gross)	Control gear - 0.1 kg / 0.2 kg Battery - 0.21 kg
Compliance	SS IEC 61347-2-7:2011/AMD1:2017 SS IEC 61347-2-13:2014/AMD1:2016 SS IEC 62384:2006/AMD1:2009 SS 563-2:2010/A1:2013
Warranty	1 year



Ordering Information

MODEL	LED MODULES COMPATIBILITY
LED1880-M	LED Modules 10Vdc - 110Vdc

FL140M-EV58

COMPACT EMERGENCY CONVERSION KIT

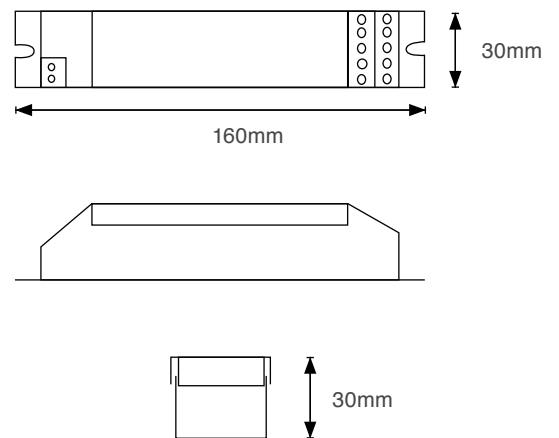
Features and Application

- Designed for use in light fittings with various fluorescent and compact fluorescent lamps.
- Compact size allows for installation in various types and sizes of fittings.
- High efficiency inverter system used to ensure long backup duration.



Technical Data

Mode of Operation	Maintained
Lamp Compatibility	4-pin Fluorescent lamp
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50/60Hz
Power Consumption	< 3W
Battery	High temperature Ni-Cd battery
Charger	Fully automatic
Charging Monitor	Ø 5mm green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	2 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing with epoxy powder coating
Weight (Nett/Gross)	Control gear - 0.22 kg / 0.32 kg Battery - 0.35 kg
Compliance	SS IEC 61347-2-7:2011 SS 563-2/A1:2013
Warranty	1 year



Ordering Information

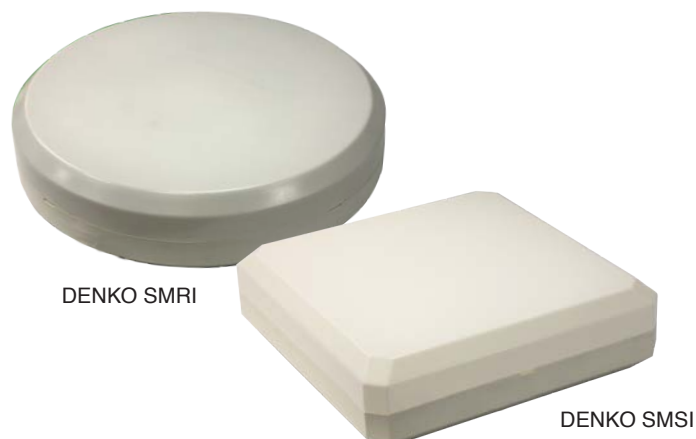
MODEL	LAMP COMPATIBILITY
FL140M-EV58	Fluorescent lamp Compact fluorescent lamp

DENKO SMRI / SMSI SERIES

STAIRCASE LUMINAIRES IP65

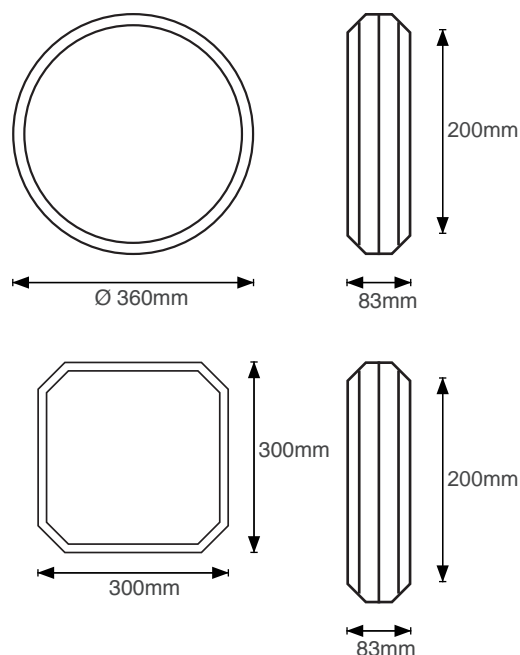
Features and Application

- IP65 weatherproof, aesthetic and resilient luminaire made of polycarbonate base and PMMA diffuser.
- Ideal for outdoor areas such as dusty, humid and corrosive environments including car parks, loading bays, workshops, laboratories and corridor areas.
- Can be installed with optional High Frequency Electronic Ballast and/or Emergency Power Pack.
- Wall or ceiling mounting.



Technical Data

Housing Material	Polycarbonate base
Diffuser Material	PMMA Opal
Light Source	PL, PLL, PLS
Mains Supply	230V AC, 50/60Hz
Ballast	Magnetic ballast
Lampholder	Moulded from Polycarbonate Material
Protection	IP65 Rating



Ordering Information

MODEL		LAMP
CIRCULAR MODEL	SQUARE MODEL	
DENKO SMRI 2009	DENKO SMSI 2009	2 x PLS 9W
DENKO SMRI 2011	DENKO SMSI 2011	2 x PLS 11W
W/EMERGENCY POWER PACK		
DENKO SMRI 2009E	DENKO SMSI 2009E	2 x PLS 9W
DENKO SMRI 2011E	DENKO SMSI 2011E	2 x PLS 11W

Options

- High Frequency Electronic Ballast
- Emergency Power Pack (Add Suffix "E")
e.g. DENKO SMRI 2011E

DENKO SMRC / SSMRC SERIES

DECORATIVE STAIRCASE LUMINAIRES

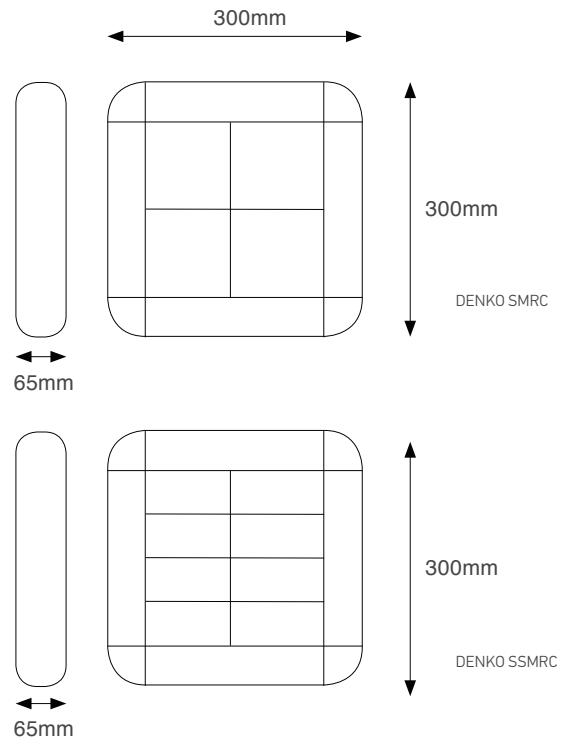
Features and Application

- Robust and resilient, the Denko SMRC and SSMRC series are decorative luminaires encased in extruded aluminium material.
- Suitable for mounting on walls and ceilings, walkways, corridors and staircase areas.
- Optional high frequency electronic ballast and/or emergency power pack is/are available.



Technical Data

Housing Material	Extruded aluminium
Reflector Material	SMRC - 4 grid matt mirror louvre SSMRC - 8 grid gloss mirror louvre
Light Source	PLC and PLC (LED)
Mains Supply	230V AC 50/60Hz
Ballast	Magnetic ballast
Lampholder	Moulded from Polycarbonate Material
Protection	IP20 Rating



Ordering Information

MODEL	MODEL W/ EMERGENCY PACK	LAMP
DENKO SMRC 218	DENKO SMRC 218E	2 x PLC 18W
DENKO SSMRC 218	DENKO SSMRC 218E	2 x PLC 18W
DENKO SMRC 2008	DENKO SMRC 2008E	2 x PLC 6W to 8W (LED)
DENKO SSMRC 2008	DENKO SSMRC 2008E	2 x PLC 6W to 8W (LED)

Options

- High frequency electronic ballast.
- Emergency Power Pack (Add Suffix "E")
e.g. DENKO SMRC 218E

DENKO SUNLITE 18 SERIES

LED SURFACE MOUNT LUMINAIRE

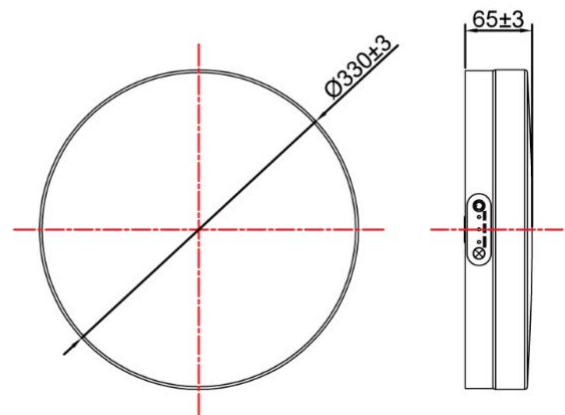
Features and Application

- Aesthetically pleasant, resilient and innovative product.
- The product provides simple energy-saving solutions for LED surface mount applications.
- The luminaire body is made of ABS base with PMMA diffuser to allow uniform illumination.
- Suitable for mounting on walls and staircase ceiling applications.



Technical Data

Housing Material	ABS
Diffuser Material	PMMA Opal Polycarbonate
Light Source	LED SMD 2835
Mains Supply	230V AC, 50/60Hz
Wattage (Max)	18W (Max) / 4W (Dim down)
Lumens (lm)	1530lm (18W) / 416lm (5W)
Power Factor	≥0.80
Colour Temperature	2700K, 3000K, 6500K
Colour Rendering	RA ≥80
Dimension	Ø 330 x 65 mm
IP Rating	IP 44



Ordering Information

MODEL	DESCRIPTION
DENKO SUNLITE 18	18W LED
With Emergency Power Pack	Add on suffix 'E' - i.e. DENKO SUNLITE 18E
With Motion Sensor	Add on suffix 'MS' - i.e. DENKO SUNLITE 18MS
With Powerpack and Motion Sensor	Add on suffix 'EMS' - i.e. DENKO SUNLITE 18EMS

Denko Battery Packs

Certified compliant to international EN standards



Battery packs play a pivotal role in all emergency lighting systems. During AC power failure, the battery pack is automatically activated to power up the emergency light at the rated duration to guide occupants to safety. At Denko Lighting, our rechargeable Ni-Cd and Ni-MH batteries are tested and certified compliant to international EN standards with TÜV Rheinland. All our batteries are also rated to operate at high temperatures to ensure safety during normal and emergency operations.



Ni-Cd 3.6V AA900mAh (Side by Side)



Ni-Cd 3.6V AA900mAh (Triangle)



Ni-Cd 3.6V C2500mAh (Cane)



Ni-Cd 3.6V C2500mAh (Side by Side)



Ni-Cd 3.6V D4500mAh (Side by Side)



Ni-Cd 3.6V SC1600mAh (Cane)



Ni-Cd 4.8V SC1600mAh (Side by Side)



Ni-Cd 6V C2500mAh (Double Cane)



Ni-MH 3.6V 18700-4000mAh (Triangle)



Ni-MH 3.6V SC2200mAh (Side by Side)



Ni-MH 3.6V SC2200mAh (Triangle)



Ni-Cd Batteries

BATTERY TYPE	BATTERY CONFIGURATION (Rows x No. of Cells)	CELL SIZE	COMPLIANCE
3.6V AA900mAh	Side by Side (1 x 3)	AA	EN 62133:2013 EN 61951-1:2014 EN 61959:2004
3.6V AA900mAh	Triangle (1 x 3)	AA	
3.6V SC1600mAh	Cane (3 x 1)	Sub-C	
4.8V SC1600mAh	Side by Side (1 x 4)	Sub-C	
3.6V C2500mAh	Side by Side (1 x 3)	C	
3.6V C2500mAh	Cane (3 x 1)	C	
6V C2500mAh	Cane (1 x 3) + (1 x 2)	C	
3.6V D4500mAh	Side by Side (1 x 3)	D	



Ni-MH Batteries

BATTERY TYPE	BATTERY CONFIGURATION (Rows x No. of Cells)	CELL SIZE	COMPLIANCE
3.6V SC2200mAh	Triangle (1 x 3)	Sub-C	EN 62133:2013 EN 61951-1:2014 EN 61959:2004
3.6V SC2200mAh	Side by Side (1 x 3)	Sub-C	
3.6V 18700-4000mAh	Triangle (1 x 3)	18700	



*all images are not drawn to scale




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PLS Listed

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