

**DENKO**™

# Emergency Lighting

Product Catalogue | **2019**



# Singapore's Leading Emergency Lighting Manufacturer



Established in 1992, Denko Lighting Pte Ltd is an ISO 9001:2015 certified company that 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 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.



## 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.

### COMBINED NON-MAINTAINED MODE (CNM) (FORMERLY KNOWN AS SUSTAINED)

The fitting incorporates both a mains lamp normally on, and a separate battery powered emergency lamp normally off. In the event of mains failure, the emergency lamp is automatically energised.

## 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.



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



PLS Listed

### 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.

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## KEY PROJECT REFERENCES

### HEALTHCARE/ EDUCATION

Indian International School  
Middleton International School  
Mount Alvernia Hospital  
Nanyang Girl's School  
Nanyang Technological University  
Singapore General Hospital  
Segar Childcare Centre  
St. Joseph's Institution  
Jurong Medical Centre

### COMMERCIAL/ RETAIL

AEON Mall, Cambodia  
IKEA Tampines & Alexandra  
Junction City Yangon, Myanmar  
KINEX  
One Raffles Place  
Tanjong Pagar Centre  
Tesla, Dubai  
Westgate

### RESIDENTIAL

Eight Courtyards  
Four Seasons Park  
Fraser Suites, Alexandra  
Highline Residences  
Parc Bottania  
Parc Emily Condominium  
Sky Terrace  
Sophia Residences  
Spottiswoode Suites  
The Skywoods  
Various HDB projects



Tanjong Pagar Centre

### INDUSTRIAL

AMK Techplace II  
Biopolis  
DHL  
Exxon Mobil @ Jurong Island  
Seagate @ Ayer Rajah  
The Westcom  
Toa Payoh Industrial Park

### GOVERNMENT

Changi Airport  
MRT Downtown Line  
Paya Lebar Airbase  
SAFRA Punggol  
Woodlands Police HQ  
Woodlands and Tuas Checkpoint

### HOTELS

Hotel Grand Central  
Oasia Hotel Novena  
Park Regis Hotel  
Sofitel SG City Centre  
Studio M Hotel



Highline Residences



KINEX



IKEA Tampines & Alexandra



SAFRA Punggol

# Product Overview

## EXIT SIGNS

**NEW**



EmEX 1602M / RM | PG 6



EmEX R1602M / RM | PG 7



SLED W1201M / RM | PG 8



BLEX W2001M / RM | PG 9



BLEX W2001M / RM RECESSED | PG 10



WLEX 100M / RM | PG 11



## EMERGENCY LIGHTS

**NEW**



EmLED-12NM | PG 12  
EmLED-14NM | PG 13

**NEW**



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

**NEW**



EmLED-110NM | PG 15

**NEW**



EmLED-110NM SURFACE | PG 16

**NEW**



EmCEL 12NM / EmCEL 12M / EmCEL 16NM  
| PG 17

**NEW**



EmDL 203NM / EmDL 205NM | PG 18

## EMERGENCY LIGHTS

**NEW**



EmDL 203NM WP | PG 19



LED-11NM | PG 20



LED-11NM AUX | PG 21  
LED-13NM AUX



AUX GEM

**NEW**



AUX GEM 2



AUX STAR



CEL 11NM / CEL 11NM WP | PG 22



DL 2301NM & DL 2301NM WP | PG 23



DL 2018NM | PG 24

## EMERGENCY CONVERSION KITS



LED1330-M | PG 25

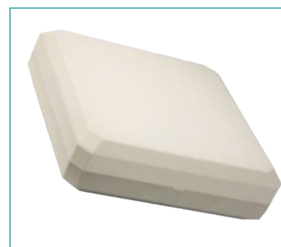


FL 140M-EV58 | PG 26

## LUMINAIRES



DENKO SMRI | PG 27



DENKO SMSI | PG 27



DENKO SMRC | PG 28



DENKO SSMRC | PG 28



DENKO SONAR ONE | PG 29



DENKO VISTA SERIES | PG 30



DENKO SUNLITE 18 | PG 31

# X SLIM LED EMERGENCY EXIT SIGN

## EmEX 1602M / RM SERIES

**NEW**



PLS Listed  
Emergency  
Exit Sign



PSB Singapore



Class I



EmEX 1602M



EmEX 1602RM-T

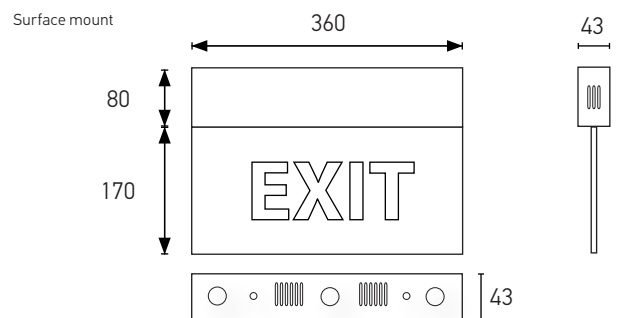
### Features and Application

- 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.

### 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 NICD 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
Warranty	1 year

### Dimensions (mm)



### 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)	 

**NEW**

# X SLIM LED EMERGENCY EXIT SIGN

## EmEX R1602M / RM RECESSED SERIES



### Features and Application

- 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.

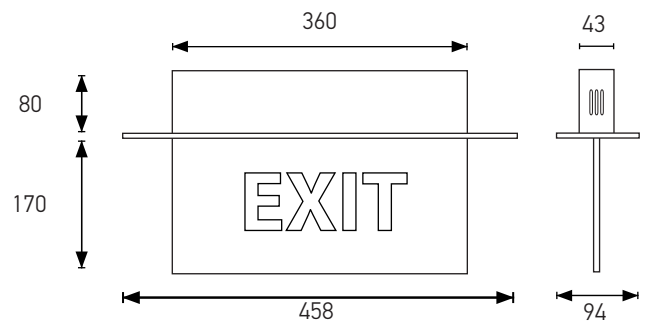


EXIT SIGN

### 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 NICD 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
Warranty	1 year

### Dimensions (mm)



### Ordering Information

MODEL	LEGEND	MODEL	LEGEND
EmEX R1602M	EXIT	EmEX R1602RM	Running Man
EmEX R1602M-E	←EXIT	EmEX R1602RM-E	←Running Man
EmEX R1602M-T	EXIT→	EmEX R1602RM-T	Running Man→
EmEX R1602M-D (Double-sided with arrow)	EXIT→ ←EXIT	EmEX R1602RM-D (Double-sided)	Running Man→ ←Running Man
EmEX R1602M-DX (Double-sided without arrow)	EXIT EXIT	EmEX R1602RM-D-AD (Double-sided with arrow down)	Running Man→ ↓Running Man
EmEX R1602RM-AD	Running Man↓	EmEX R1602RM-D-AU (Double-sided with arrow up)	Running Man→ ↑Running Man
EmEX R1602RM-AU	Running Man↑	EmEX R1602RM-DX (Double-sided without arrow)	Running Man→ Running Man

# WHITE LED EMERGENCY EXIT SIGN

## SLED W1201M / RM SERIES



PSB Singapore



SLED W1201M



SLED W1201RM Recessed

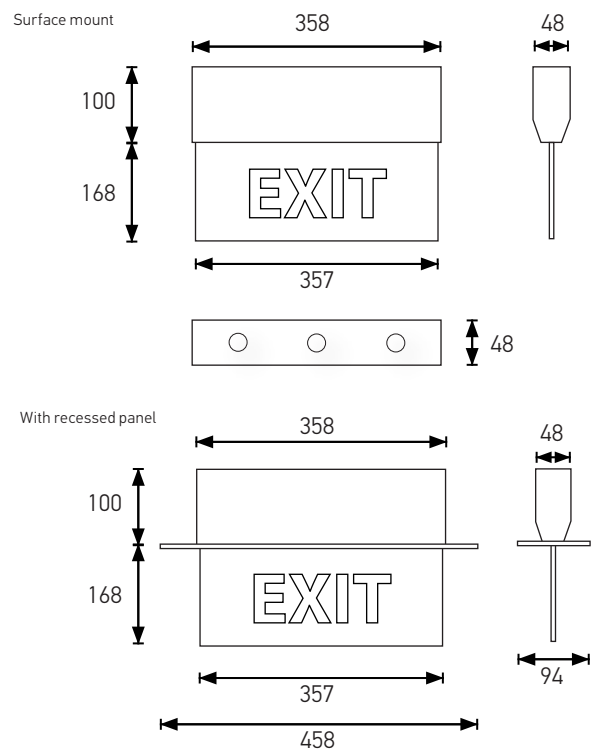
### Features and Application

- LED emergency exit signs with option for Exit or Running Man signage.
- Optional recess plate and bracket available.
- LED lamps provide high efficiency, durability and low energy consumption.

### Technical Data

Mode of Operation	Maintained
Lamp	1W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	< 4W
Battery	High temperature NICD 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)	2.0 kg / 2.2 kg
Compliance	SS 563-1:2010; SS 563-2:2010; SS 263-2 (IEC 60598-2-22) /A2:2008
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
Warranty	1 year

### Dimensions (mm)



### Ordering Information

EXIT	LEGEND	RUNNING MAN	LEGEND
SLED W1201M		SLED W1201RM	
SLED W1201M-E		SLED W1201RM-E	
SLED W1201M-T		SLED W1201RM-T	
SLED W1201M-D (Double-sided)	 	SLED W1201RM-D (Double-sided)	 

### Options

- Recessed panel and bracket



# LED BOX EMERGENCY EXIT SIGN BLEX W2001M / RM SERIES



PLS Listed  
Emergency  
Exit Sign



PSB Singapore



Class I

## Features and Application

- 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



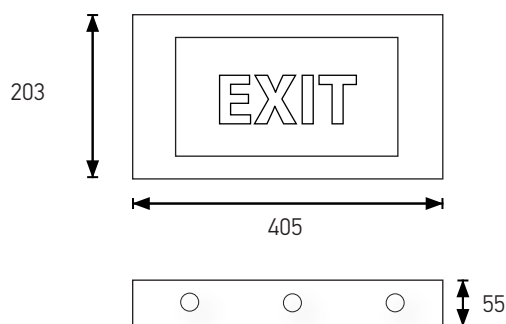
BLEX W2001RM

EXIT SIGN

## 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 NICD 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
Legend	White text/graphical symbol over ISO green background
IP Rating	IP20
Warranty	1 year

## Dimensions (mm)



Single-sided/double-sided

## 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)	 

# LED RECESSED BOX EMERGENCY EXIT SIGN BLEX W2001M / RM RECESSED SERIES



PSB Singapore

EXIT SIGN



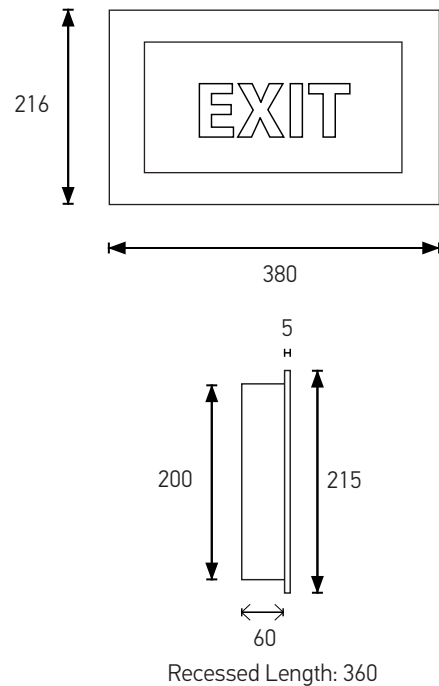
## Features and Application

- Self contained emergency exit sign 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 NICD 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
Legend	White text/graphical symbol over ISO green background
IP Rating	IP20
Warranty	1 year

## Dimensions (mm)



## 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	

# WEATHERPROOF EMERGENCY EXIT SIGN WLEX 100M / RM SERIES



PLS Listed  
Emergency  
Exit Sign



PSB Singapore



Class I

## Features and Application

- 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.



WLEX 100M



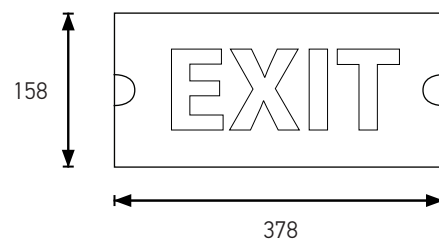
WLEX 100RM

EXIT SIGN

## 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 NICD 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)	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
Legend	White text/graphical symbol over ISO green background
IP Rating	IP65 rated TÜV SÜD PSB certified
Warranty	1 year

## Dimensions (mm)



## Ordering Information

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

# EASI LED RECESSED EMERGENCY LIGHT

## EmLED-12NM

**NEW**



PSB Singapore

EMERGENCY LIGHT



EmLED-12NM

EmLED-12NM with ring adapter

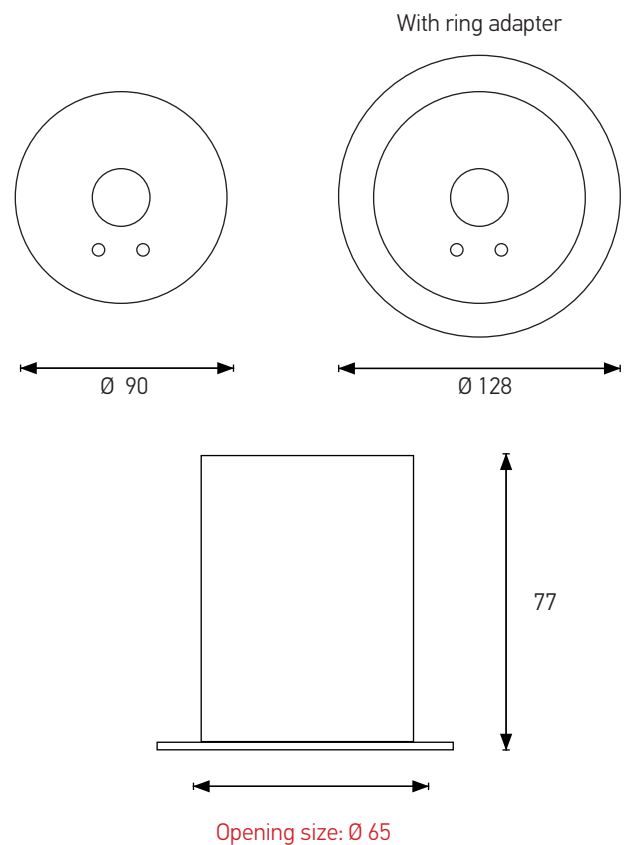
### Features and Application

- New compact all-in-one, self-contained LED emergency light for recessed installation on ceilings designed for easy installation and usage.
- Includes a 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 2W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	< 1W
Battery	High temperature NICD 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/ Gross)	0.20 kg / 0.28 kg
Compliance	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

### Dimensions (mm)



### Ordering Information

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

**NEW**

# EASI LED RECESSED EMERGENCY LIGHT

## EmLED-14NM



### Features and Application

- New compact all-in-one, self-contained LED emergency light for recessed installation on ceilings designed for easy installation and usage.
- Includes a 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.



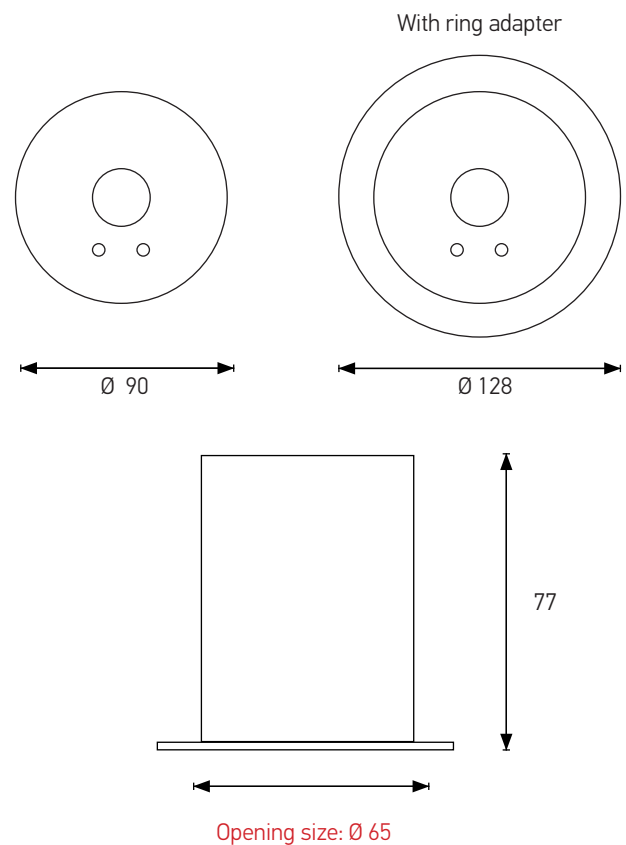
EmLED-14NM

EmLED-14NM with ring adapter

### Technical Data

Mode of Operation	Non-maintained
Lamp	Samsung 4W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	< 2W
Battery	High temperature NIMH 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/Gross)	0.28 kg / 0.34 kg
Compliance	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

### Dimensions (mm)



### Ordering Information

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

EMERGENCY LIGHT

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# EASI LED SURFACE EMERGENCY LIGHT

## EmLED-12NM DRUM / EmLED-14NM DRUM

**NEW**



PSB Singapore



### Features and Application

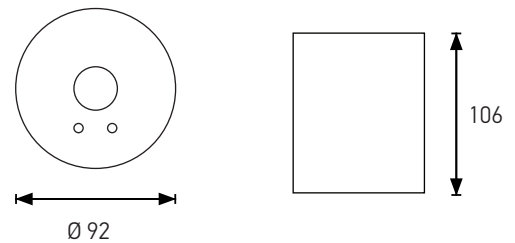
- New compact all-in-one, self-contained LED emergency light for surface installation on ceilings designed for easy installation and usage.
- Suitable for various indoor environments such as retail, commercial, hospitality and healthcare industries.
- LED lamps provide high efficiency, durability and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

EMERGENCY LIGHT

### 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	High temperature NICD/NIMH 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 563-2:2010/A1:2013 SS IEC 60598-2-22:2016 SS IEC 60598-1:2016
Installation	Surface mount
IP Rating	IP20
Warranty	1 year

### Dimensions (mm)



### Ordering Information

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

**NEW**

# VENUS LED 10W RECESSED EMERGENCY LIGHT

## EmLED-110NM



PSB Singapore

### Features and Application

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

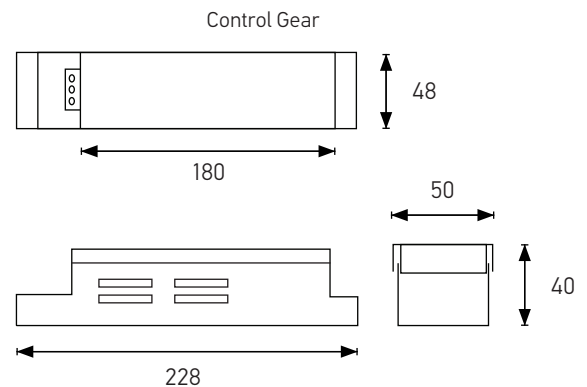
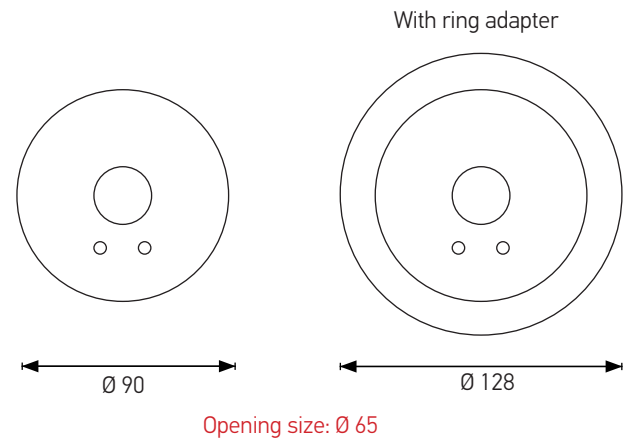


EMERGENCY LIGHT

### 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 NIMH 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 Surface: Aluminium casing with epoxy powder coating
Weight (Nett/ Gross)	Disc: 0.1 kg / 0.15 kg Control gear: 0.52 kg / 0.57 kg
Compliance	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

### Dimensions (mm)



### Ordering Information

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

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# VENUS LED 10W SURFACE EMERGENCY LIGHT

## EmLED-110NM SURFACE

**NEW**



PLS Listed  
Emergency  
Lighting



PSB Singapore



Class I



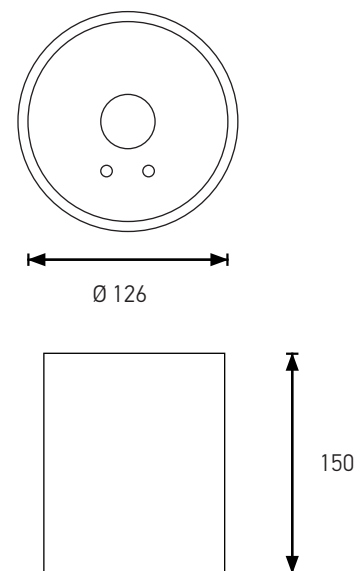
### Features and Application

- 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 NIMH 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 563-2:2010/A1:2013 SS IEC 60598-2-22:2016 SS IEC 60598-1:2016
Installation	Surface mount
IP Rating	IP20
Warranty	1 year

### Dimensions (mm)



### Ordering Information

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

EMERGENCY LIGHT



**NEW**

# IP65 WEATHERPROOF LED COMPACT EMERGENCY LIGHT

## EmCEL 12NM / EmCEL 12M / EmCEL 16NM



PLS Listed  
Emergency  
Lighting



PSB Singapore



### 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.

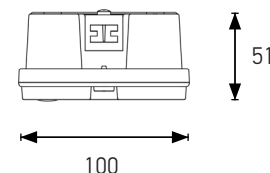
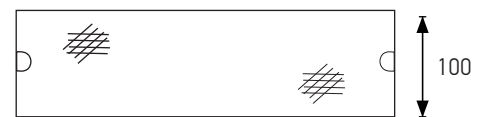
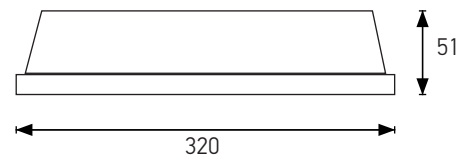


EMERGENCY LIGHT

### 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 NICD/NIMH 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
Construction	Injection moulded fire retardant polycarbonate housing with clear reeded diffuser
Weight (Nett / Gross)	0.55 kg / 0.75 kg
Compliance	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

### Dimensions (mm)



### 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.

# LED TWIN-FLOOD EMERGENCY LIGHT

## EmDL 203NM / EmDL 205NM

NEW



PLS Listed  
Emergency  
Lighting



PSB Singapore



Class I



### Features and Application

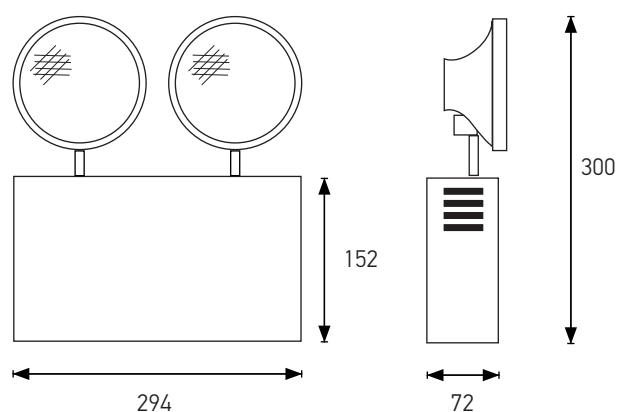
- Dual 3W/5W LED self-contained emergency light.
- Adjustable lamp heads to project light in desired position.
- Robust steel housing to provide good protection.

EMERGENCY LIGHT

### 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 NICD 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 563-2/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	year

### Dimensions (mm)



### Ordering Information

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

**NEW**

# LED TWIN-FLOOD IP65 WEATHERPROOF EMERGENCY LIGHT

## EmDL 203NM WP



PLS Listed  
Emergency  
Lighting



Class I

PSB Singapore

### 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.

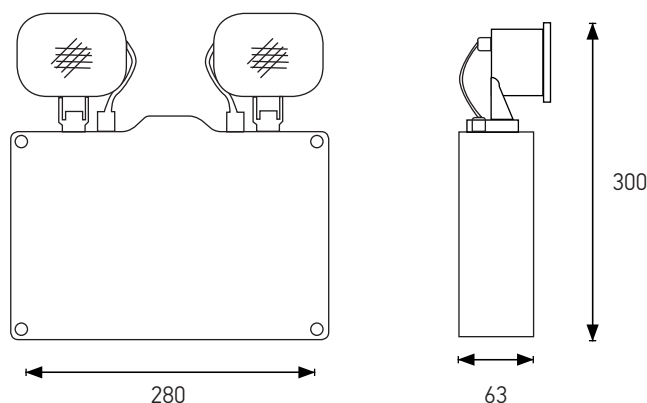


EMERGENCY LIGHT

### 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 NICD 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 563-2/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

### Dimensions (mm)



### 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.

# LED RECESSED EMERGENCY LIGHT

## LED-11NM



PLS Listed  
Emergency  
Lighting



PSB Singapore



Class I



EMERGENCY LIGHT



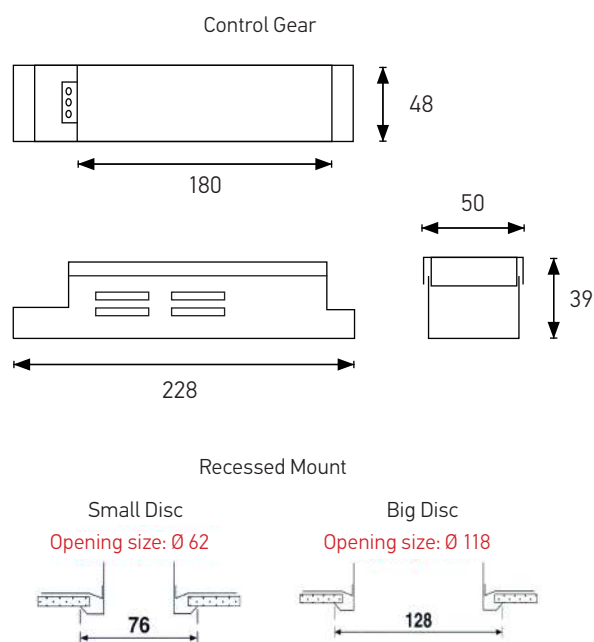
### Features and Application

- Self-contained LED emergency light for recessed installation on ceilings.
- Suitable for various indoor environments such as retail, commercial, hospitality and healthcare industries.
- LED lamps provide high efficiency, durability and low energy consumption.
- Comes with option for small or big disc.

### Technical Data

Mode of Operation	Non-maintained
Lamp	Samsung 2W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	< 1W
Battery	High temperature NICD 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; epoxy powder coating
Weight (Nett/ Gross)	Control gear - 0.5 kg / 0.55 kg Small disc - 0.1 kg / 0.11 kg Big disc - 0.2 kg / 0.22 kg
Compliance	SS 563-2/A1:2013; SS IEC 60598-2-22:2016 SS IEC 60598-1:2016
Installation	Recessed
IP Rating	IP20
Warranty	1 year

### Dimensions (mm)



### Ordering Information

MODEL	LAMP
LED-11NM (Small Disc)	2W Samsung High flux white LED
LED-11NM (Big Disc)	2W Samsung High flux white LED

**NEW**

# LED AUXILIARY EMERGENCY LIGHT LED-11NM AUX / LED-13NM AUX



PLS Listed  
Emergency  
Lighting



PSB Singapore



Class I

## Features and Application

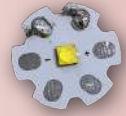
- LED stand-alone self-contained emergency light solution for auxiliary installation with various types of light fittings.
- Easy installation with various types of light fittings.
- LED lamps provide high efficiency, durability and low energy consumption.



AUX GEM



AUX GEM 2



AUX STAR

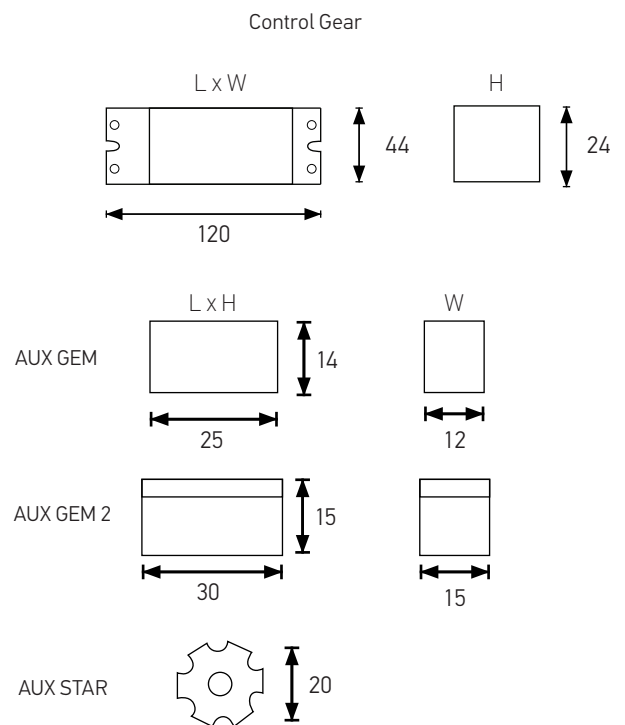


EMERGENCY LIGHT

## 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 NICD battery LED-13NM AUX: High temperature NIMH 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 563-2/A1:2013; SS IEC 60598-2-22:2016 SS IEC 60598-1:2016
IP Rating	IP20
Warranty	1 year

## Dimensions (mm)



## 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

# LED COMPACT EMERGENCY LIGHT

## CEL 11NM / CEL 11NM WP



PLS Listed  
Emergency  
Lighting



PSB Singapore



Class I

EMERGENCY LIGHT



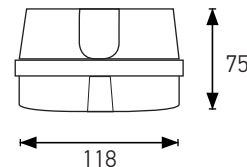
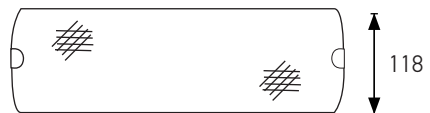
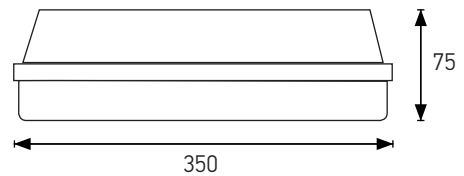
### Features and Application

- Self-contained emergency light.
- Easy installation, no additional brackets required.
- LED lamps provide high efficiency, durability and low energy consumption.
- Weatherproof version 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	1W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	< 1W
Battery	High temperature NICD 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 housing with clear reeded diffuser
Weight (Nett/Gross)	0.8 kg / 0.85 kg
Compliance	SS 563-2/A1:2013; SS IEC 60598-2-22:2016 SS IEC 60598-1:2016
Installation	Ceiling, wall or pendant mounting
Cable Entry	Standard 20mm Ø knockout hole
IP Rating	CEL 11NM: IP20 CEL 11NM WP: IP65 rated TÜV SÜD PSB certified
Warranty	1 year

### Dimensions (mm)



### Ordering Information

MODEL	LAMP
CEL 11NM	1W High flux white LED
CEL 11NM WP	1W High flux white LED

### Options

- Standard
- Weatherproof

# DECORATIVE LED TWIN-FLOOD EMERGENCY LIGHT

## DL 2301NM / DL 2301NM WP



PSB Singapore

### 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.



DL 2301NM



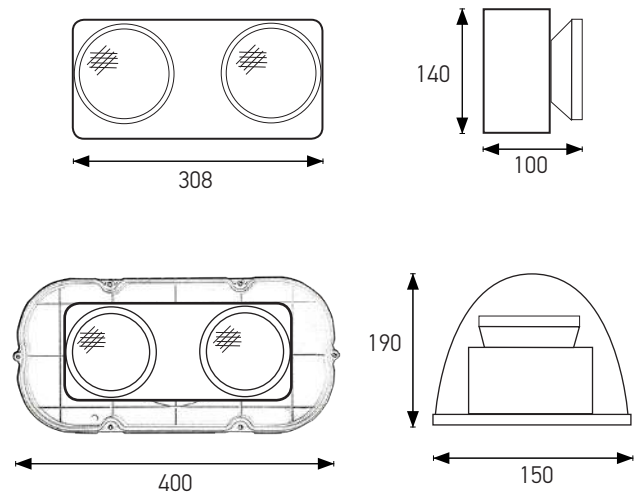
DL 2301NM WP

EMERGENCY LIGHT

### 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 NICD 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 - Injection moulded fire retardant polycarbonate Weatherproof capsule - Polycarbonate
Weight (Nett/ Gross)	DL 2301NM - 1 kg / 1.1 kg DL 2301NM WP - 1.7 kg / 2 kg
Compliance	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

### Dimensions (mm)



### Ordering Information

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

### Options

- Standard
- Weatherproof Capsule

# SAFEWAY LED TWIN EMERGENCY LIGHT DL 2018NM



PSB Singapore

EMERGENCY LIGHT



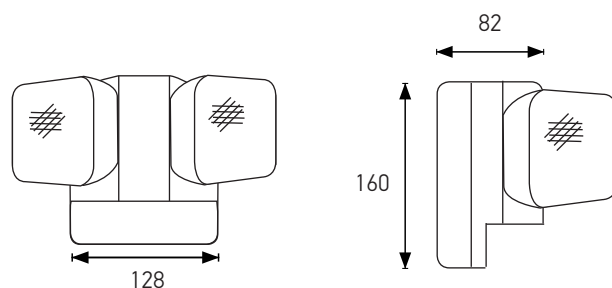
## Features and Application

- 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, carparks, warehouses, etc.

## 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 NICD 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 563-2/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

## Dimensions (mm)



## Ordering Information

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



# LED EMERGENCY CONVERSION KIT

## LED1330-M



PSB Singapore

### Features and Application

- Self-contained emergency conversion kit designed to strike various types of LED lamps.
- High efficiency conversion unit providing long backup duration.

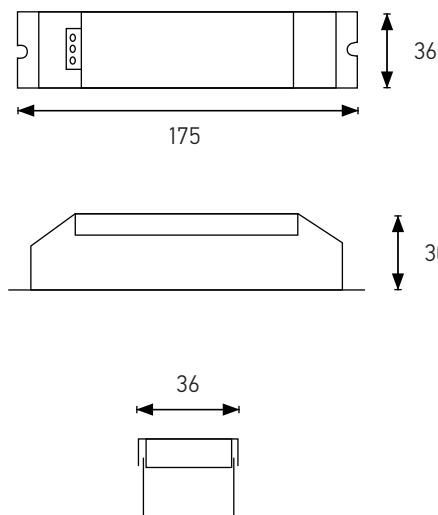


EMERGENCY  
CONVERSION KIT

### Technical Data

Mode of Operation	Maintained
Lamp Compatibility	LED lamps
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50/60Hz, Protection against polarity reversal
Power Consumption	< 3W
Battery	High temperature NICD battery
Charger	Fully automatic
Charging Monitor	Ø 5mm 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)	Module - 0.25 kg / 0.35 kg Battery - 0.3 kg
Compliance	IEC 61347-2-7:2006; IEC 61347-2-13:2006; IEC 62384/A1:2009, SS 563-2:2010
Warranty	1 year

### Dimensions (mm)



### Ordering Information

MODEL	LAMP COMPATIBILITY
LED1330-M	LED lamps

# COMPACT EMERGENCY CONVERSION KIT FL140M-EV58



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EMERGENCY  
CONVERSION KIT



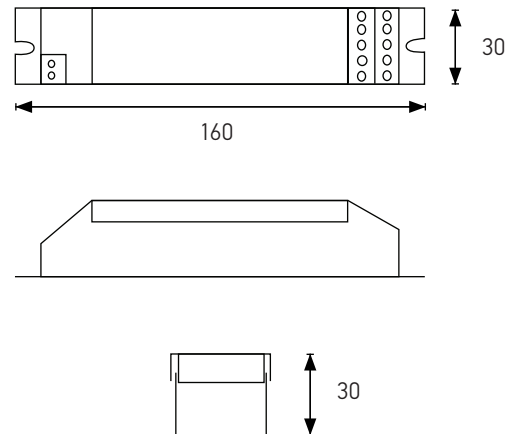
## Features and Application

- 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 NICD 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)	Module - 0.22 kg / 0.32 kg Battery - 0.35 kg
Compliance	IEC 61347-2-7:2011; SS 563-2/A1:2013
Warranty	1 year

## Dimensions (mm)



## Ordering Information

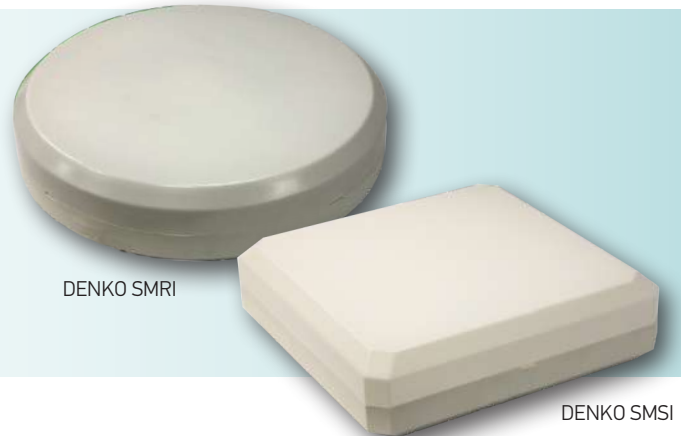
MODEL	LAMP COMPATIBILITY
FL140M-EV58	Fluorescent lamp Compact fluorescent lamp

# STAIRCASE LUMINAIRES IP65 DENKO SMRI / SMSI SERIES



## 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.

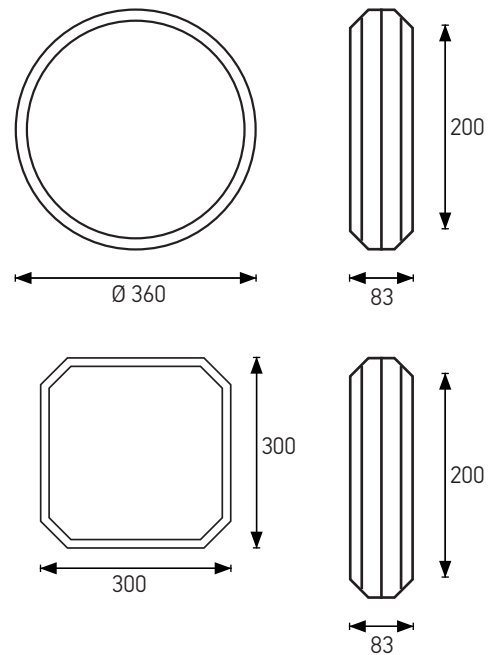


LUMINAIRE

## 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

## Dimensions (mm)



## 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

# DECORATIVE STAIRCASE LUMINAIRES

## DENKO SMRC / SSMRC SERIES



DENKO SMRC



DENKO SSMRC

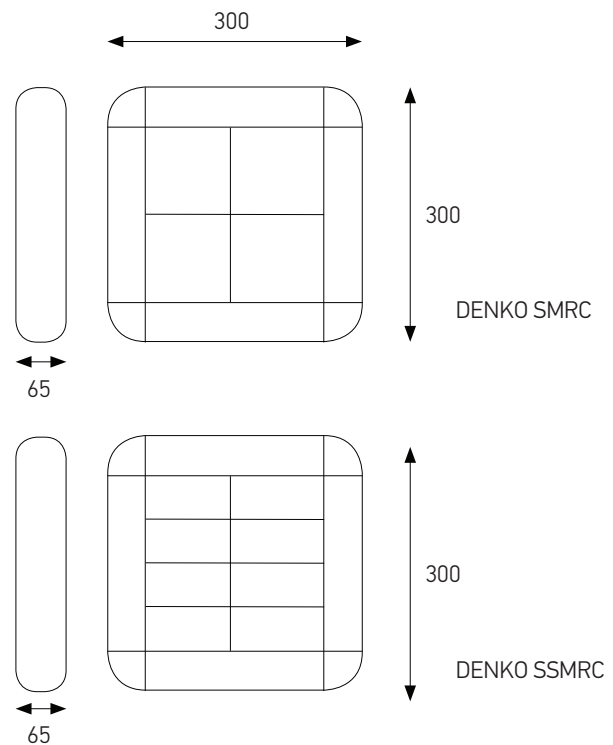
### Features and Application

- 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

### Dimensions (mm)



### 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

# LED SONAR SENSOR LIGHT

## DENKO SONAR ONE SERIES



### Features and Application

- Ceiling mounted LED luminaire with microwave sensor for motion detection.
- Elegant brush finish with spin aluminium housing allows excellent heat dissipation and is anodized for corrosion resistance.
- Preset detection zone (1m to Ø10m) to full brightness upon detection. If there is no further detected motion after a preset hold time (5s / 15s / 300s / 600s), the LED lamp will dim into a preset brightness (0% / 5% / 10% / 30% / 50%).
- Suitable for areas with low human traffic while adhering to safety requirements. E.g. Staircases, washrooms, car parks, corridors, walkways, overhead bridges, underpasses, etc.

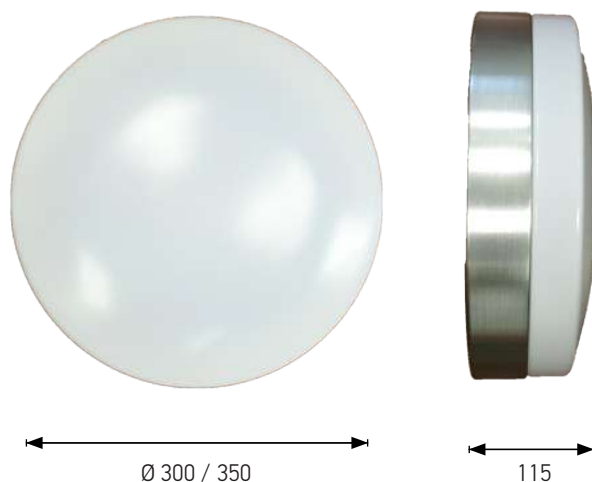


LUMINAIRE

### Technical Data

Housing Material	Spin aluminium with brush finishing	
Mains Supply	230V AC, 50/60Hz	
Model	<b>SONAR ONE 12</b>	<b>SONAR ONE 15</b>
Wattage (Max)	12W	15W
Wattage (Econ dimming mode)	3W	3W
Lumens (lm)	1336	1700
Dimension	300 x 115	350 x 115
LED Lamp Life	30,000 hours	
CCT K	3000K - 6000K	

### Dimensions (mm)



### Ordering Information

MODEL	MODEL W/ EMERGENCY PACK	LAMP
DENKO SONAR ONE 12	DENKO SONAR ONE 12E	12W LED
DENKO SONAR ONE 15	DENKO SONAR ONE 15E	15W LED

### Options

- Emergency Power Pack (Add Suffix "E")  
e.g. DENKO SONAR ONE 12E

# LED SURFACE MOUNT LUMINAIRE DENKO VISTA SERIES



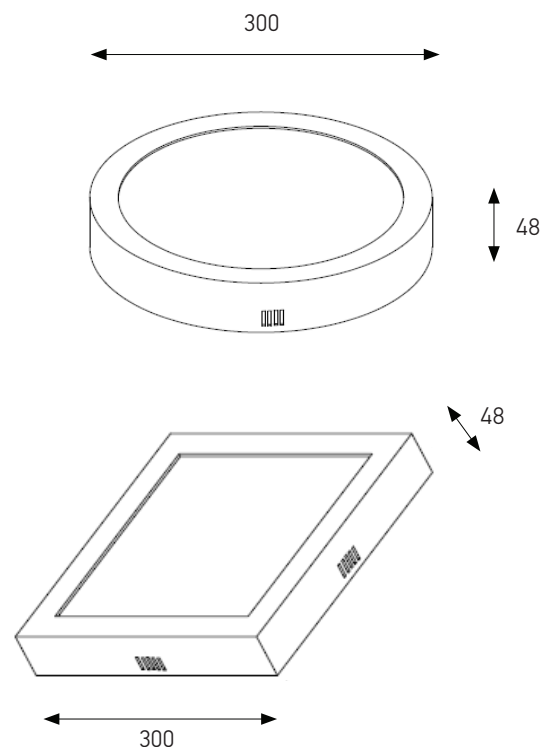
## Features and Application

- Aesthetically pleasant, resilient and innovative product.
- The product provides simple energy-saving solutions for LED surface mount applications.
- The luminaire body is made of Aluminium powder coated with PC diffuser to allow uniform illumination.
- Suitable for mounting on walls and ceilings, walkways, corridors and staircase areas.

## Technical Data

Housing Material	Aluminium
Diffuser Material	PMMA
Mains Supply	230V AC, 50/60Hz
Wattage (Max)	15W (Max) / 4W (Dim down)
Lumens (lm)	1275lm (15W) / 380lm (4W)
Power Factor	≥0.80
Colour Temperature	2700K – 6500K
Colour Rendering	RA ≥80
Dimension	Round: Ø 300 x 48 mm Square: 300 x 300 x 48 mm
IP Rating	IP20

## Dimensions (mm)



## Ordering Information

MODEL	DESCRIPTION
DENKO VISTA ROUND	15W LED
DENKO VISTA SQ	15W LED
With Emergency Power Pack	Add on suffix 'E' - i.e. DENKO VISTA ROUND E
With Motion Sensor	Add on suffix 'MS' - i.e. DENKO VISTA ROUND MS
With Powerpack and Motion Sensor	Add on suffix 'EMS' - i.e. DENKO VISTA ROUND EMS

# LED SURFACE MOUNT LUMINAIRE DENKO SUNLITE 18 SERIES



## 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.

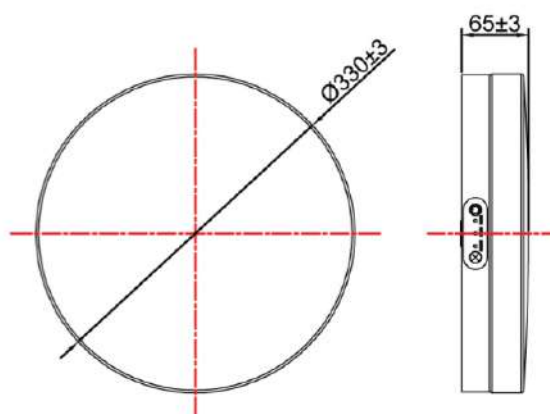


LUMINAIRE

## 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 – 6500K
Colour Rendering	RA ≥80
Dimension	Ø 330 x 65 mm
IP Rating	IP 44

## Dimensions (mm)



## 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



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



PLS Listed



## Denko Lighting Pte Ltd



5004 Ang Mo Kio Ave 5  
#05-10/11 Techplace II  
Singapore 569872



+65 6483 2325



+65 6483 2438



[sales@denkolighting.com.sg](mailto:sales@denkolighting.com.sg)



[www.denkolighting.com.sg](http://www.denkolighting.com.sg)

