



# PRODUCT CATALOGUE

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SPECIALIST IN EMERGENCY LIGHTING AND EXIT SIGN



## COMPANY PROFILE

Established in 1992, Denko Lighting Pte Ltd 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 TÜV SÜD PSB Singapore – which bears the mark of excellence as required by international standards.

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.

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# QUICK PRODUCT REFERENCE

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**SPECIALLY DESIGNED  
FOR LED LAMPS**

**NEW!**



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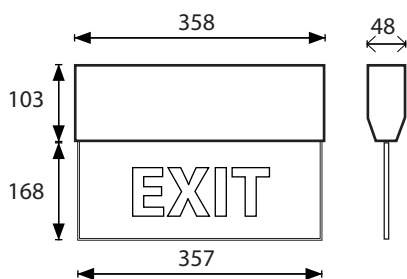
# WHITE LED SLIM EMERGENCY EXIT SIGN

## SLED W1201M series

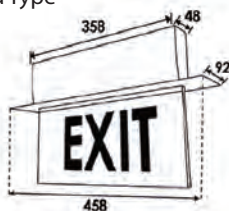


SLED W1201M

### Dimensions (mm)



Recessed Type



### Optional Accessories



Recessed Panel



### Features and Application

With a sleek and attractive finish, the White LED Slim Emergency Exit Sign series can be seamlessly integrated in hotels, commercial buildings and retail malls. They can be easily installed with ceiling, wall or pendant mounting. The High Flux White LED has low power consumption and is environmentally friendly.



### Technical Data

Mode of Operation	Maintained
Lamp	High Flux White LED
Mains Supply	230V AC 50/60Hz
Power Consumption	3VA
Battery	Maintenance-free High Temperature Nickel Cadmium
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Micro-switch for independent testing
Emergency Duration	3 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing; epoxy powder coating
Weight (Nett/Gross)	2 kg / 2.2 kg
Compliance	CP 19 ; SS263 pt.2 ; IEC 60598-2-22
Installation	Ceiling, wall or pendant mounting
Cable Entry	3 x 20mm Ø knockout hole
Legend	White text over ISO green background
Warranty	1 year

### Ordering Information

MODEL	LEGEND
SLED W1201M	EXIT
SLED W1201M-E	◀ EXIT
SLED W1201M-T	EXIT ▶
SLED W1201M-D (Double-sided version)	EXIT ▶ ◀ EXIT

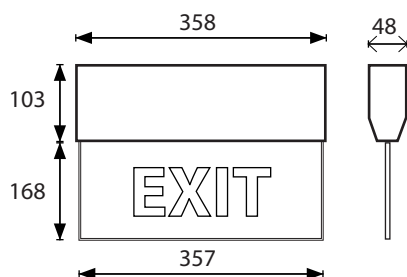
# SLIM EMERGENCY EXIT SIGN

## SSE 18M series

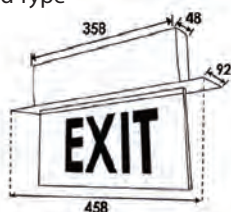


SSE 18M

### Dimensions (mm)



Recessed Type



### Optional Accessories



Recessed Panel

### Features and Application

The Slim Emergency Exit Sign series can be easily installed with ceiling, wall or pendant mounting. With a sleek and small footprint, the exit sign can be seamlessly integrated in hotels, commercial buildings, and retail malls. The 8W fluorescent lamp is powered by a highly efficient, high frequency inverter during interruption of mains supply.



### Technical Data

Mode of Operation	Maintained
Lamp	8 watt Fluorescent Lamp
Mains Supply	230V AC 50/60Hz
Power Consumption	12 VA
Battery	Maintenance-free High Temperature Nickel Cadmium
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Micro-switch for independent testing
Emergency Duration	2 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing; epoxy powder coating
Weight (Nett/Gross)	2.45 kg / 2.6 kg
Compliance	CP 19 ; SS263 pt.2 ; IEC 60598-2-22
Installation	Ceiling, wall or pendant mounting
Cable Entry	3 x 20mm Ø knockout hole
Legend	White text over ISO green background
Warranty	1 year

### Ordering Information

MODEL	LEGEND
SSE 18M	EXIT
SSE 18M-E	◀ EXIT
SSE 18M-T	EXIT ▶
SSE 18M-D (Double-sided version)	EXIT ▶ ◀ EXIT

# WHITE LED SLIM BOX EMERGENCY EXIT SIGN

## BLEX W2001M series PICTO W2001M series

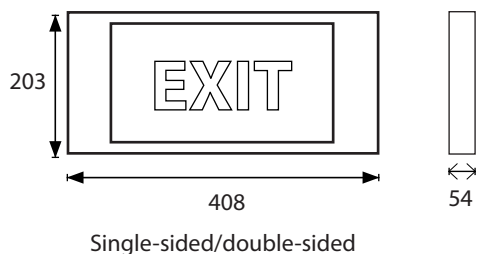


BLEX W2001M



PICTO W2001M

### Dimensions (mm)



### Features and Application

The White LED Slim Box Emergency Exit Sign series is a self-contained unit of rigid-steel construction and attractively finished. Ideal for public locations such as industrial, commercial buildings, factories and warehouses, the exit sign is available in standard and pictorial signage, single or double-sided face. The High Flux White LED has low power consumption and is environmentally friendly.



### Technical Data

Mode of Operation	Maintained
Lamp	High Flux White LED
Mains Supply	230V AC 50/60Hz
Power Consumption	3VA
Battery	Maintenance-free High Temperature Nickel Cadmium
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Push-off Test-switch for independent testing
Emergency Duration	3 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing; epoxy powder coating
Weight (Nett/Gross)	1.9 kg / 2.1 kg
Compliance	CP 19 ; SS263 pt.2 ; IEC 60598-2-22
Installation	Ceiling, wall or pendant mounting
Cable Entry	4 x 20mm Ø knockout hole
Legend	White text/graphical symbol over ISO green background
Warranty	1 year

### Ordering Information

MODEL	LEGEND	MODEL	LEGEND
BLEX W2001M	EXIT	PICTO W2001M	
BLEX W2001M-E	◀ EXIT	PICTO W2001M-E	◀
BLEX W2001M-T	EXIT ▶	PICTO W2001M-T	▶
BLEX W2001M-D (Double-sided)	EXIT ▶ ◀ EXIT	PICTO W2001M-D (Double-sided)	▶ ◀

SPECIFICATIONS SUBJECT TO CHANGES WITHOUT PRIOR NOTICE.



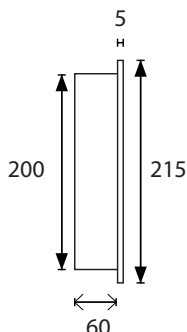
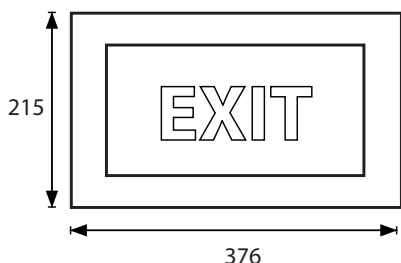
# WHITE LED RECESSED BOX EMERGENCY EXIT SIGN

## BLEX W2001M Recessed Series



BLEX W2001M-E Recessed

### Dimensions (mm)



### Features and Application

The White LED Recessed Box Emergency Exit Sign series is a self-contained unit of rigid-steel construction and attractively finished. The recessed exit sign design is ideal for locations such as industrial buildings, factories and warehouses. The High Flux White LED has low power consumption and is environmentally friendly.



### Technical Data

Mode of Operation	Maintained
Lamp	High Flux White LED
Mains Supply	230V AC 50/60Hz
Power Consumption	3VA
Battery	Maintenance-free High Temperature Nickel Cadmium
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Push-off Test-switch for independent testing
Emergency Duration	3 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing; epoxy powder coating
Weight (Nett/Gross)	2.52 kg / 2.72 kg
Compliance	CP 19 ; SS263 pt.2 ; IEC 60598-2-22
Installation	Recessed wall
Cable Entry	4 x 20mm Ø knockout hole
Legend	White text/graphical symbol over ISO green background
Warranty	1 year

### Ordering Information

MODEL	LEGEND
BLEX W2001M Recessed	EXIT
BLEX W2001M-E Recessed	◀ EXIT
BLEX W2001M-T Recessed	EXIT ▶

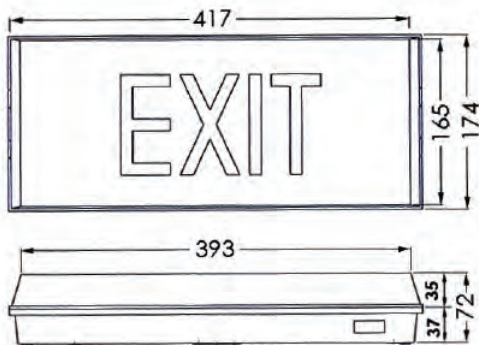
# WEATHERPROOF EMERGENCY EXIT SIGN

## TBJ 100A WP Series



TBJ 100A WP

### Dimensions (mm)



### Features and Application

This is a corrosion resistant, weatherproof self-contained exit light of polycarbonate material. It is ideal for high humidity or marine environment and highly recommended for outdoor use. The unit is easily installed as there are no additional brackets required. The 8W fluorescent lamp is powered by a highly efficient, high frequency inverter during interruption of main supply.



### Technical Data

Mode of Operation	Maintained
Lamp	1 x 8 watt Fluorescent tube
Mains Supply	230V AC 50/60Hz
Power Consumption	12VA
Battery	3.6V 1.6AH High Temperature Nickel Cadmium battery
Charger	Constant current, Dual-rate
Charging Monitor	LED - Red - Indicates charging. Equipped with push test switch to simulate power failure
Recharge Period	24 hrs
Testing Facility	Push-off test-switch for independent testing
Emergency Duration	2 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge
Construction	Injection moulded fire retardant ABS housing and acrylic diffuser
Weight (Nett/Gross)	2.2 kg / 2.48 kg
Compliance	CP19 : 2000, SS 263 PART 2 : 1998
Installation	Surface mounted direct to wall
IP Rating	IP 65
Warranty	1 year

### Ordering Information

MODEL	LEGEND
Single Face	
TBJ 100A WP	EXIT
TBJ 100A WP-E	◀ EXIT
TBJ 100A WP-T	EXIT ▶

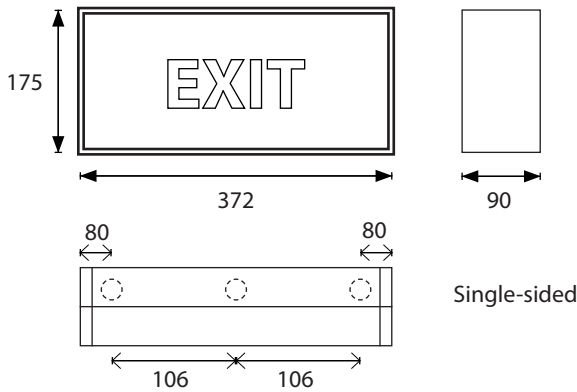
# BOX EMERGENCY EXIT SIGN

## BEX 28S series



BEX 28S

### Dimensions (mm)



### Features and Application

The Box Emergency Exit Sign series is a self-contained unit of rigid-steel construction and attractively finished. Ideal for public locations such as industrial buildings, factories and warehouses, the exit sign is easily installed as there are no additional brackets required. The 8W fluorescent lamps are powered by a highly efficient pushpull, high frequency inverter.



### Technical Data

Mode of Operation	Combined non-maintained
Lamp	2 x 8 watt Fluorescent Lamp
Operating Temperature	ta 40°C
Mains Supply	230V AC 50/60Hz
Power Consumption	12VA
Battery	Maintenance-free High Temperature Nickel Cadmium
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Micro-switch for independent testing
Emergency Duration	2 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing; epoxy powder coating
Flammability Class	Self-extinguishing
Weight	Single-sided - 2.5kg
Compliance	CP 19 ; SS263 pt.2 ; IEC 60598-2-22
Installation	Ceiling, wall or pendant mounting
Cable Entry	Single-sided - 4 x 20mm Ø knockout hole
Legend	White over ISO green background
Warranty	1 year

### Ordering Information

MODEL	LEGEND
BEX 28S	EXIT
BEX 28S-E	◀ EXIT
BEX 28S-T	EXIT ▶

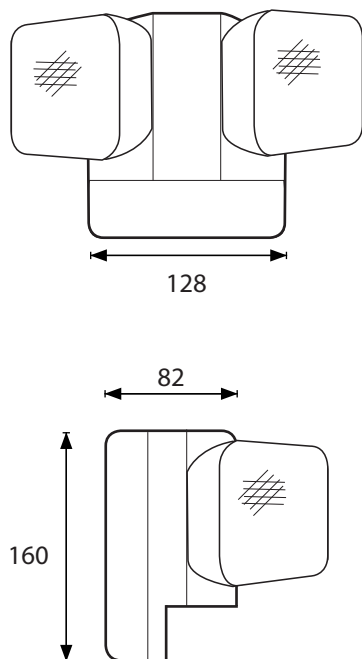
# SAFEGWAY LED TWIN EMERGENCY LIGHT



## DL 2018NM



### Dimensions (mm)



### Features and Application

The self-contained Safeway LED Twin Emergency light is ideal for indoor installations. Utilising LED lamps, the compact fixture is energy saving and can be easily installed in public areas such as staircase landings, walkways, etc. Its twin head lamps can be easily rotated 360 degrees and allows flexible positioning of the lights into various directions.



### Technical Data

Mode of Operation	Non-maintained
Lamp	2 x 1 watt High Flux White LED
Mains Supply	220V AC 50/60Hz
Power Consumption	2VA
Battery	Maintenance-free High Temperature Nickel Cadmium
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Test-switch for independent testing
Emergency Duration	2 hrs
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 / 0.9 kg
Compliance	SS563; SS263 pt.2; IEC 61347-2-7; IEC 61347-2-13; IEC 61347-1; IEC 62384; IEC 62301; IEC 62471
Installation	Wall or pendant mounting
Cable Entry	Standard 20mm Ø knockout hole
Warranty	1 year

### Ordering Information

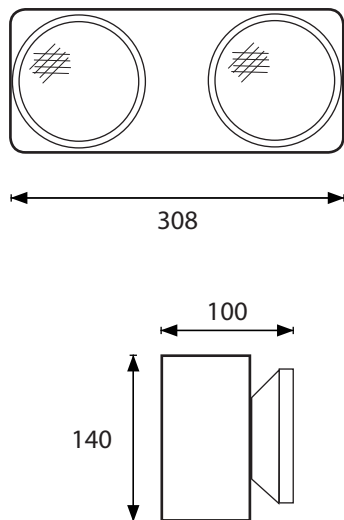
MODEL	LAMP
DL 2018NM	2 x 1 watt High Flux White LED

# DECORATIVE WHITE LED TWIN-FLOOD EMERGENCY LIGHT

## DL 2301NM



### Dimensions (mm)



### Features and Application

The self-contained DL 2301NM Twin-Flood Emergency Light is attractively designed for indoor installations. Utilising LED lamps, the compact DL 2301NM is energy saving and can be easily installed in public areas such as staircase landings, walkways and escape routes. Housed in injection moulded thermoplastic casing, the unit is lightweight yet sturdy.



### Technical Data

Mode of Operation	Non-maintained
Lamp	2 x 1 watt High Flux White LED
Mains Supply	230V AC 50/60Hz
Power Consumption	3VA
Battery	Maintenance-free High Temperature Nickel Cadmium
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Push-off Test-switch for independent testing
Emergency Duration	2 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Injection moulded thermoplastic housing
Weight (Nett/Gross)	1.2 kg / 1.3 kg
Compliance	SS563; SS263 pt.2; IEC 61347-2-7; IEC 61347-2-13; IEC 61347-1; IEC 62384; IEC 62301; IEC 62471
Installation	Wall or pendant mounting
Cable Entry	1 x 20mm Ø knockout hole
Warranty	1 year

### Ordering Information

MODEL	LAMP
DL 2301NM	2 x 1 watt High Flux White LED

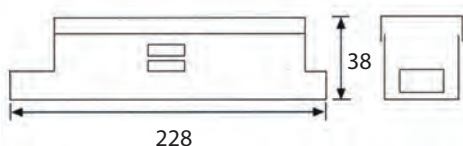
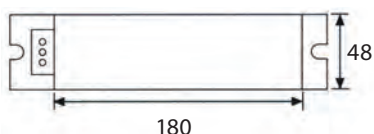
# LED RECESSED EMERGENCY LIGHT

## LED-11NM



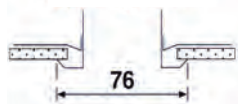
### Dimensions (mm)

#### Conversion Kit

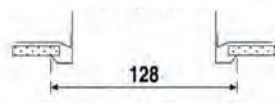


#### Recessed Mount

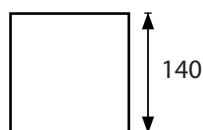
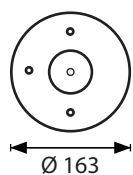
Small Disc  
Opening 62mm



Big Disc  
Opening 118mm



#### Surface Mount



## Features and Application

The LED-11NM Recessed Emergency Light is a miniature emergency system that is mounted flush on ceilings and blends seamlessly into various indoor environments including retail, office, hotels, etc. Surface mount is also available.



## Technical Data

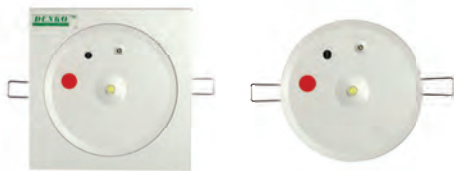
Mode of Operation	Non-maintained
Lamp	1 x 1 watt High Flux LED
Operating Temperature	ta 40°C
Mains Supply	230V AC 50/60 Hz
Power Consumption	2VA
Battery	3.6V/1.25 AH Maintenance-free High Temperature NiMH
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Push-off Test-switch for independent testing
Emergency Duration	3 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing; epoxy powder coating
Flammability Class	Self-extinguishing
Weight (Nett/Gross)	0.52 kg / 0.66 kg
Compliance	SS563; SS263 pt.2; IEC 61347-2-7; IEC 61347-2-13; IEC 61347-1; IEC 62384; IEC 62301; IEC 62471
Warranty	1 year

## Ordering Information

MODEL	LAMP
LED-11NM (Recessed mount c/w small/big disc)	1 x 1 watt High Flux LED Lamp
LED-11NM (Surface mount)	1 x 1 watt High Flux LED Lamp

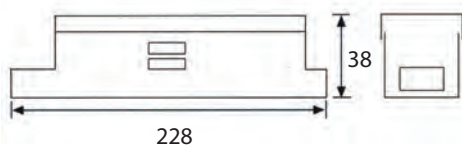
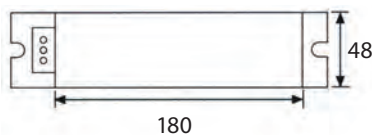
# LED RECESSED EMERGENCY LIGHT

## LED-11NM ESTA



### Dimensions (mm)

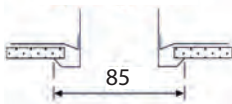
#### Conversion Kit



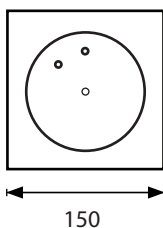
#### Recessed Mount

##### Round

Opening 58mm



##### Square



### Features and Application

The LED-11NM ESTA LED Emergency Light is a miniature emergency system that is mounted flush on ceilings and blends seamlessly into various indoor environments including retail, office, hotels, etc. The ESTA version comes with the disc made of polycarbonate material in a sleek and clean finish.



### Technical Data

Mode of Operation	Non-maintained	
Lamp	1 x 1 watt High Flux LED	
Operating Temperature	ta 40°C	
Mains Supply	230V AC 50/60 Hz	
Power Consumption	2VA	
Battery	3.6V/1.25 AH Maintenance-free High Temperature NiMH	
Charger	Fully automatic	
Charging Monitor	Ø 5mm Green LED	
Recharge Period	24 hrs	
Testing Facility	Push-off Test-switch for independent testing	
Emergency Duration	3 hrs	
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery	
Construction	Disc	Polycarbonate
	Control Gear	Electro-galvanised steel casing
Flammability Class	Self-extinguishing	
Weight (Nett/Gross)	0.52 kg / 0.66 kg	
Compliance	SS563; SS263 pt.2; IEC 61347-2-7; IEC 61347-2-13; IEC 61347-1; IEC 62384; IEC 62301; IEC 62471	
Warranty	1 year	

### Ordering Information

MODEL	LAMP
LED-11NM ESTA (Round)	1 x 1 watt High Flux LED Lamp
LED-11NM ESTA (Square)	1 x 1 watt High Flux LED Lamp

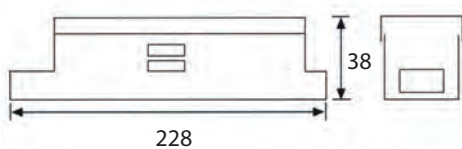
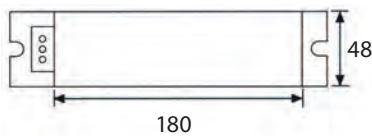
# LED RECESSED EMERGENCY LIGHT

## LED-13NM



### Dimensions (mm)

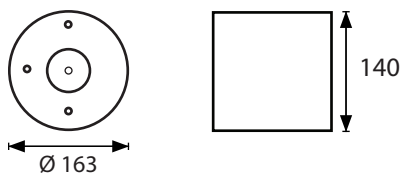
#### Conversion Kit



#### Recessed Mount



#### Surface Mount



## Features and Application

The LED-13NM Recessed Emergency Light is a miniature emergency system that is mounted flush on ceilings and blends seamlessly into various indoor environments including retail, office, hotels, etc. Surface mount is also available.



## Technical Data

Mode of Operation	Non-maintained
Lamp	1 x 3 watt High Flux LED
Operating Temperature	ta 40°C
Mains Supply	230V AC 50/60 Hz
Power Consumption	2VA
Battery	3.6V/1.6 AH Maintenance-free High Temperature NiCad
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Push-off Test-switch for independent testing
Emergency Duration	3 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing; epoxy powder coating
Flammability Class	Self-extinguishing
Weight (Nett/Gross)	0.52 kg / 0.66 kg
Compliance	SS563; SS263 pt.2; IEC 61347-2-7; IEC 61347-2-13; IEC 61347-1; IEC 62384; IEC 62301; IEC 62471
Warranty	1 year

## Ordering Information

MODEL	LAMP
LED-13NM (Recessed mount)	1 x 3 watt High Flux LED Lamp
LED-13NM (Surface mount)	1 x 3 watt High Flux LED Lamp



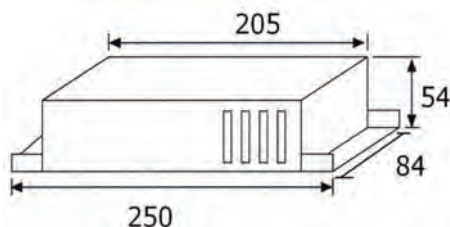
# RECESSED HALOGEN EMERGENCY LIGHT

## HLG 110NM



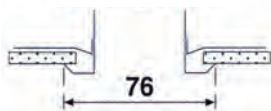
### Dimensions (mm)

#### Conversion Kit

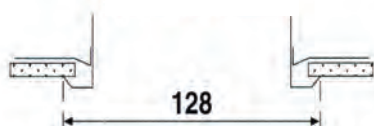


#### Recessed Mount

Small Disc  
Opening 62mm



Big Disc  
Opening 118mm



### Features and Application

The HLG 110NM is a miniature emergency system that blends inconspicuously into existing decor arrangements of indoor locations including hotels, offices, homes and retail environments. It fits naturally into accessible and inaccessible ceilings by snapping the disc and flush mounted firmly.



PLS Listed



Class 1

### Technical Data

Mode of Operation	Non-maintained
Lamp	1 x 6V 10 watt Tungsten Halogen Lamp
Mains Supply	230V AC 50/60Hz
Power Consumption	3VA
Battery	Maintenance-free Sealed Lead Acid Battery
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Lamp Circuit Continuity Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Push-off Test-switch for independent testing
Emergency Duration	2 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing; epoxy powder coating
Weight (Nett/Gross)	1.74 kg / 1.84 kg
Compliance	SS563; SS263 pt.2 ; IEC 60598-2-22; IEC 61347-2-7
Installation	Recess mounting
Warranty	1 year

### Ordering Information

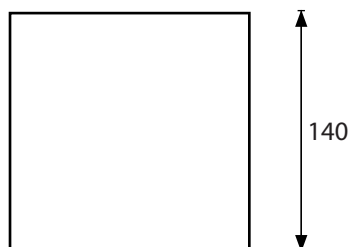
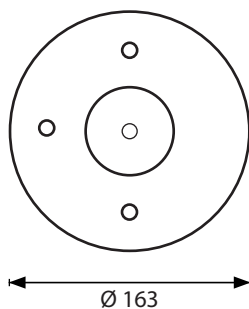
MODEL	LAMP
HLG 110NM (Recessed mount c/w small/big disc)	1 x 6V 10 watt Tungsten Halogen

# SURFACE HALOGEN EMERGENCY LIGHT

## SHLG 110NM



### Dimensions (mm)



### Features and Application

The SHLG 110NM is a miniature emergency system that is surface mounted and is ideal for existing decor arrangements of indoor locations including hotels, offices, homes and retail environments.



### Technical Data

Mode of Operation	Non-maintained
Lamp	1 x 6V 10 watt Tungsten Halogen Lamp
Operating Temperature	ta 40°C
Mains Supply	230V AC 50/60Hz
Power Consumption	3VA
Battery	Maintenance-free Sealed Lead Acid Battery
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Lamp Circuit Continuity Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Push-off Test-switch for independent testing
Emergency Duration	2 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing; epoxy powder coating
Flammability Class	Self-extinguishing
Classification	C <sub>0</sub> /C16, C <sub>90</sub> /A16
Weight (Nett/Gross)	1.9 kg / 2.18 kg
Compliance	SS563; SS263 pt.2 ; IEC 60598-2-22; IEC 61347-2-7
Installation	Ceiling or pendant mounting
Cable Entry	1 x 20mm Ø knockout hole
Warranty	1 year

### Ordering Information

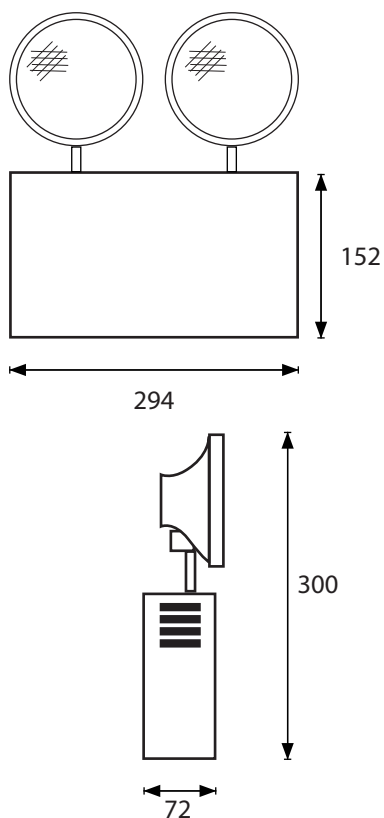
MODEL	LAMP
SHLG 110NM	1 x 6V 10 watt Tungsten Halogen

# TWIN-FLOOD EMERGENCY LIGHT

## DL 210NM



### Dimensions (mm)



### Features and Application

The DL 210NM is a self-contained and robust and economical model. It is fire-retardant and adjustable for range of optimum projection in upmarket retail stores, supermarkets, factories and all escape routes. The housing is poly-carbonate with a beige finish.



### Technical Data

Mode of Operation	Non-maintained
Lamp	2 x 6V 10 watt Tungsten Halogen lamp
Operating Temperature	ta 40°C
Mains Supply	230V AC 50/60Hz
Power Consumption	4VA
Battery	Maintenance-free Sealed Lead Acid Battery
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Lamp Circuit Continuity Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Push-off Test-switch for independent testing
Emergency Duration	>2 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing; epoxy powder coating
Flammability Class	Self-extinguishing
Weight (Nett/Gross)	2.3 kg / 2.5 kg
Compliance	SS563 ; SS263 pt.2 ; IEC 60598-2-22; IEC 61347-2-7; IEC 61347-1
Installation	Wall or pendant mounting
Cable Entry	1 x 20mm Ø knockout hole
Warranty	1 year

### Ordering Information

MODEL	LAMP
DL 210NM	2 x 10 watt Tungsten Halogen

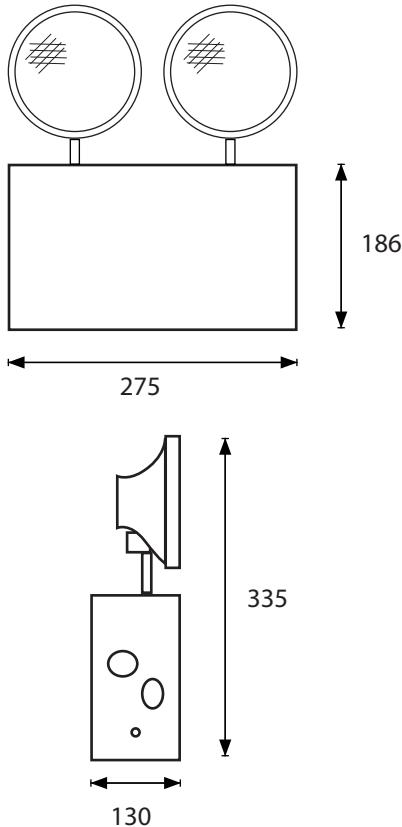
SPECIFICATIONS SUBJECT TO CHANGES WITHOUT PRIOR NOTICE.

# TWIN-FLOOD EMERGENCY LIGHT WEATHERPROOF TYPE

## DL 210NM (WP)



### Dimensions (mm)



### Features and Application

The robust and self-contained DL 210NM (WP) Twin-Flood Emergency Light weatherproof type is perfect for outdoor installations. The DL 210NM (WP) is durable, fire-retardant and adjustable for range of optimum projection in upmarket retail stores, supermarkets, factories and all escape routes. The housing is poly-carbonate with a beige finish.



### Technical Data

Mode of Operation	Non-maintained
Lamp	2 x 6V 10 watt Tungsten Halogen lamp
Operating Temperature	ta 40°C
Mains Supply	230V AC 50/60Hz
Power Consumption	4VA
Battery	Maintenance-free Sealed Lead Acid Battery
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Push-off Test-switch for independent testing
Emergency Duration	>2 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	High-impact plastic housing
Flammability Class	Self-extinguishing
Weight (Nett/Gross)	3.5 kg / 3.7 kg
Compliance	SS563 ; SS263 pt.2 ; IEC 60598-2-22; IEC 61347-2-7; IEC 61347-1
Installation	Wall or pendant mounting
Cable Entry	1 x 20mm Ø knockout hole
Warranty	1 year

### Ordering Information

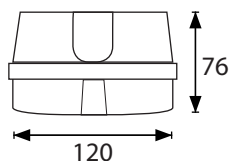
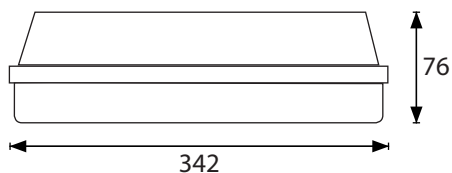
MODEL	LAMP
DL 210NM (WP)	2 x 10 watt Tungsten Halogen

# COMPACT EMERGENCY LIGHT

## CEL 28NM



### Dimensions (mm)



### Options

- Standard
- Weatherproof

### Features and Application

This is a corrosion resistant and self-contained emergency light of polycarbonate material. The unit is easily installed as there are no additional brackets required. The control gear mounting plate can be simply removed for ease of maintenance. The lamp is powered by a highly efficient pushpull inverter during interruption of main supply.



### Technical Data

Mode of Operation	Non-maintained
Lamp	2 x 8 watt Fluorescent lamp
Operating Temperature	ta 40°C
Mains Supply	230V AC 50/60Hz
Power Consumption	3VA
Battery	Maintenance-free High Temperature Nickel Cadmium
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Push-off test-switch for independent testing
Emergency Duration	2 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Injection moulded fire retardant polycarbonate housing; clear reeded diffuser
Weight (Nett/Gross)	1.3 kg / 1.4 kg
Compliance	CP 19 ; SS263 pt.2 ; IEC 60598-2-22
Installation	Ceiling, wall or pendant mounting
Cable Entry	1 x 20mm Ø knockout hole
Warranty	1 year

### Ordering Information

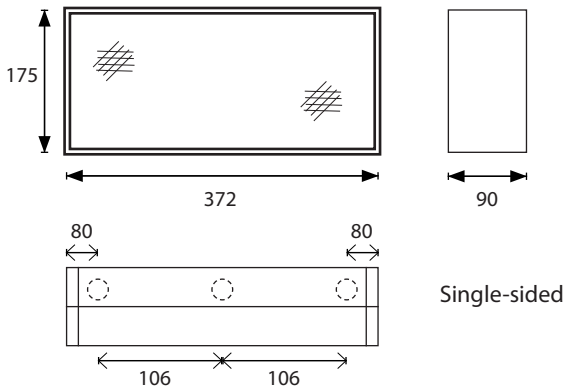
MODEL	LAMP
CEL 28NM	2 x 8 watt Fluorescent
CEL 28NM (WP)	2 x 8 watt Fluorescent

# BOX EMERGENCY LIGHT

## BEL 28NM



### Dimensions (mm)



### Features and Application

The BEL 28NM is designed with a clean and modern finish with an opal or clear prismatic diffuser. A versatile and rugged emergency light box, the BEL 28NM can be used in a variety of locations including walkways, carparks, warehouses, schools and offices. The control gear mounting plate can be easily removed for hassle-free maintenance.



### Technical Data

Mode of Operation	Non-maintained
Lamp	2 x 8 watt Fluorescent lamp
Operating Temperature	ta 40°C
Mains Supply	230V AC 50/60Hz
Power Consumption	3VA
Battery	Maintenance-free High Temperature Nickel Cadmium
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Micro-switch for independent testing
Emergency Duration	2 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing; epoxy powder coating
Flammability Class	Self-extinguishing
Classification	C <sub>0</sub> /C50, C <sub>90</sub> /B50
Weight (Nett/Gross)	2.1 kg / 2.2 kg
Compliance	CP 19 ; SS263 pt.2 ; IEC 60598-2-22
Installation	Ceiling, wall or pendant mounting
Cable Entry	4 x 20mm Ø knockout hole
Warranty	1 year

### Ordering Information

MODEL	LAMP
BEL 28NM	2 x 8 watt Fluorescent

# LED EMERGENCY CONVERSION KIT

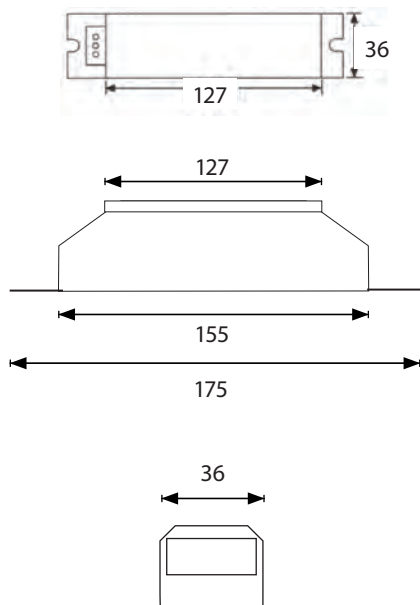


## LED1330-M

**SPECIALLY DESIGNED FOR LED LAMPS**



### Dimensions (mm)



### Features and Application

The LED1330-M LED conversion kit is a new product designed meticulously by our engineering team for LED lamps. Different from incandescent, fluorescent or any other types of lamps, LED lamps have their own energy supply technique (known as driving technique), and are configured using high efficiency constant voltage or constant current source. LED1330-M uses customised compact modules, ensure safe, stable and meets LED lamp specific driving requirement with no damage to LED lamps. It provides a backup to many types of LED lamps during emergency.



PLS Listed



Class 1

### Technical Data

Mode of Operation	Maintained
Lamp	LED Lamps
Min.and Max. DC Voltage	DC 5 to 27 Volts
Operating Temperature	ta 20-40°C
Mains Supply	230V AC 50/60Hz, Protection against polarity reversal
Power Consumption	3VA
Battery	Maintenance-free High Temperature Nickel Cadmium. 4.8V 2.5AH / 4.8V 1.8AH
DC Supply Current	0.4 to 0.5 Amps
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Push-off Test-switch for independent testing
Emergency Duration	3 hrs / 2 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing; epoxy powder coating
Flammability Class	Self-extinguishing
Weight	Module - 0.24 kg; Battery - 0.37 kg
Compliance	IEC 61347-2-7, IEC 61347-2-13, IEC 62384, SS563-2
Warranty	1 year

### Ordering Information

MODEL	LAMP
LED1330-M	LED Lamps

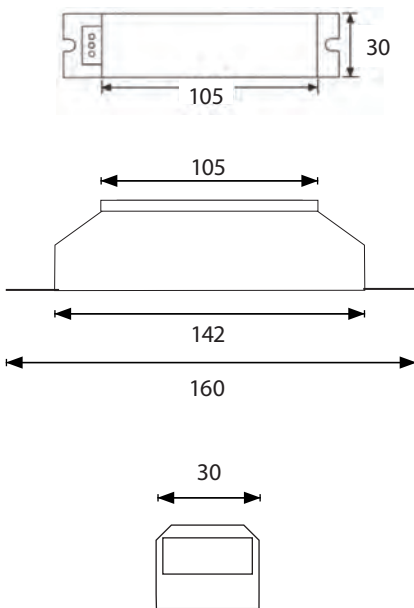
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# COMPACT EMERGENCY CONVERSION KIT

## FL 140M-EV58



### Dimensions (mm)



### Features and Application

The FL 140M-EV58 Compact Emergency Conversion Kit is designed for use in light fittings from 18 to 36 watt fluorescent lamps. With its compact size, it is versatile to be used in various environments with space constraints. It is available in compact 20 and 40 watt charger/inverter units with a highly efficient, high frequency inverter complete with stand-by battery.



PLS Listed



Class 1

### Technical Data

Mode of Operation	Maintained
Lamp	4-pin Fluorescent lamp
Operating Temperature	ta 40°C
Mains Supply	230V AC 50/60Hz
Power Consumption	3VA
Battery	Maintenance-free High Temperature Nickel Cadmium
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Push-off Test-switch for independent testing
Emergency Duration	2 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing; epoxy powder coating
Flammability Class	Self-extinguishing
Weight	Module - 0.22 kg; Battery - 0.37 kg
Compliance	IEC 61347-2-7
Warranty	1 year

### Ordering Information

MODEL	LAMP
FL 140M-EV58	Fluorescent Lamp

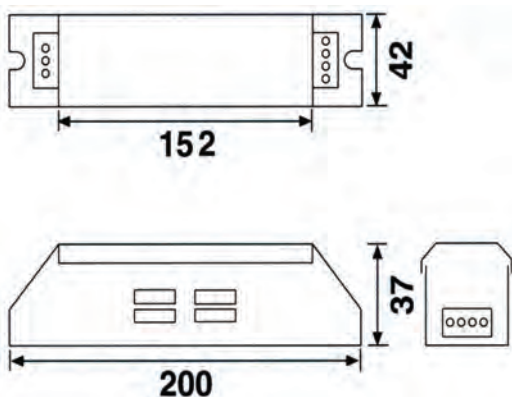


# EMERGENCY CONVERSION KIT

## FL 120M / FL 140M



### Dimensions (mm)



### Features and Application

The FL 120M and FL 140M Emergency Conversion Kits are designed for use in light fittings from 18 to 36 watt fluorescent lamps. Its applications are wide ranging as it can be used in various environments. It is available in compact 18 and 36 watt charger/inverter units with a highly efficient, high frequency inverter complete with stand-by battery.



PLS Listed



Class 1

### Technical Data

Mode of Operation	Maintained.
Lamp	4-pin Fluorescent lamp
Operating Temperature	ta 40°C
Mains Supply	230V AC 50/60Hz
Power Consumption	3VA
Battery	Maintenance-free High Temperature Nickel Cadmium
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Push-off Test-switch for independent testing
Emergency Duration	2 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing; epoxy powder coating
Flammability Class	Self-extinguishing
Weight	Module - 0.42 kg; Battery - 0.37 kg
Compliance	IEC 61347-2-7
Warranty	1 year

### Ordering Information

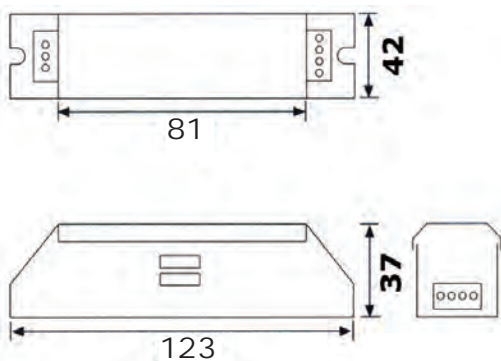
MODEL	LAMP
FL 120M	18 watt fluorescent lamp
FL 140M	36 watt fluorescent lamp

# HALOGEN EMERGENCY BATTERY PACK

## NMH5



### Dimensions (mm)



### Features and Application

The NMH5 Halogen Emergency Battery Pack is designed for use in light fittings with a 5 watt tungsten halogen lamp. With its compact size, it is versatile to be used in various environments where installation space is a concern. The 6V 5 watt tungsten halogen lamp is powered with a highly efficient, high frequency inverter complete with stand-by battery.



PLS Listed



Class 1

### Technical Data

Mode of Operation	Non-maintained
Lamp	1x 6V 5 watt Tungsten Halogen lamp
Mains Supply	230V AC 50/60Hz
Power Consumption	3VA
Battery	Maintenance-free High Temperature Nickel Cadmium
Charger	Fully automatic
Charging Monitor	Ø 5mm Green LED
Lamp Circuit Continuity Monitor	Ø 5mm Green LED
Recharge Period	24 hrs
Testing Facility	Push-off Test-switch for independent testing
Emergency Duration	2 hrs
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing; epoxy powder coating
Weight	Module - 0.26 kg; Battery - 0.37 kg
Compliance	SS563; SS263 pt.2 ; IEC 60598-2-22; IEC 61347-2-7
Warranty	1 year

### Ordering Information

MODEL	LAMP
NMH5	1 x 6V 5 watt Tungsten Halogen

# STAIRCASE LUMINAIRES IP65

## DENKO SMRI series DENKO SMSI series

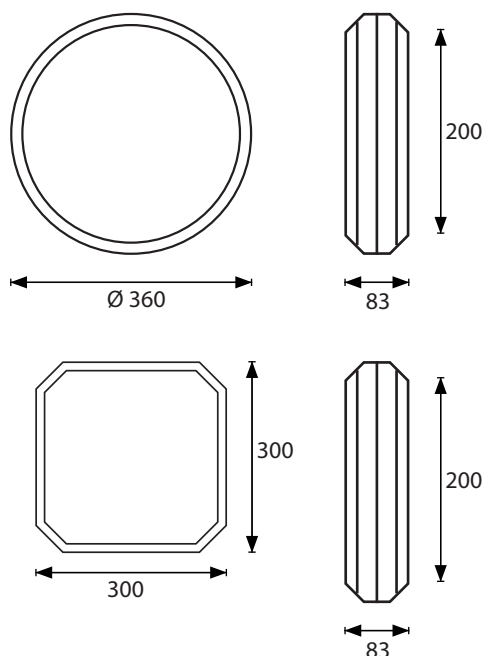


DENKO SMRI



DENKO SMSI

### Dimensions (mm)



### Optional

- High Frequency Electronic Ballast
- Emergency Power Pack (Add Suffix "E")  
e.g. DENKO SMRI 2008E

### Features and Application

Aesthetic and resilient, the SMRI and SMSI staircase luminaire series are IP65 certified and are housed in polycarbonate base and PMMA diffuser. Ideal for outdoor applications, the SMRI and SMSI series are suitable for dusty, humid and corrosive environments such as car parks, loading bays, workshops, laboratories and corridor areas. The unit can be incorporated with optional High Frequency Electronic Ballast and/or Emergency Power Pack. It is easily installed by wall or ceiling mounting.

### Technical Data

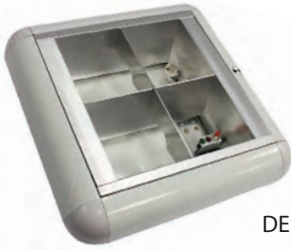
Housing Material	Polycarbonate Base
Diffuser Material	PMMA Opal Polycarbonate
Light Source	PL, PLL, PLS, 2D Lamp and PLC (LED)
Mains Supply	230V AC, 50/60Hz
Ballast	Magnetic ballast
Lampholder	Moulded from Polycarbonate Material
Protection	IP 65 Rating

### Ordering Information

MODEL		LAMP
CIRCULAR MODEL	SQUARE MODEL	
DENKO SMRI 2008	DENKO SMSI 2008	2 x PLC 8W (LED)
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 2008E	DENKO SMSI 2008E	2 x PLC 8W (LED)
DENKO SMRI 2009E	DENKO SMSI 2009E	2 x PLS 9W
DENKO SMRI 2011E	DENKO SMSI 2011E	2 x PLS 11W

# DECORATIVE STAIRCASE LUMINAIRES

## DENKO SMRC series DENKO SSMRC series

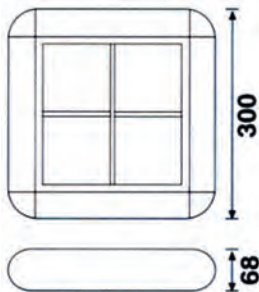


DENKO SMRC

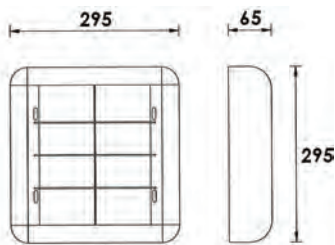


DENKO SSMRC

### Dimensions (mm)



DENKO SMRC



DENKO SSMRC

### Optional

- High Frequency Electronic Ballast
- Emergency Power Pack (Add Suffix "E")  
e.g. DENKO SMRC 218E

### Features and Application

Robust and resilient, the SMRC and SSMRC series are decorative luminaires encased in extruded aluminium material and suitable for wall and ceiling mounting, walkway, corridor and staircase areas. Ideal for outdoor applications, the unit can be ordered with optional High Frequency Electronic Ballast and/or Emergency Power Pack.

### Technical Data

Housing Material	Extruded aluminium
Diffuser Material	Gloss Mirror Louvre
Light Source	PLC and PLC (LED)
Mains Supply	230V AC 50/60Hz
Ballast	Magnetic ballast
Lampholder	Moulded from Polycarbonate Material
Protection	IP 20 Rating

### Ordering Information

MODEL	w/Emergency Power 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 8W (LED)
DENKO SSMRC 2008	DENKO SSMRC 2008E	2 x PLC 8W (LED)

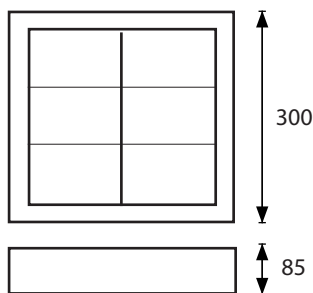
# DECORATIVE STAIRCASE LUMINAIRES

## DENKO SQMRC series



DENKO SQMRC

### Dimensions (mm)



DENKO SQMRC

### Optional

- High Frequency Electronic Ballast
- Emergency Power Pack (Add Suffix "E")  
e.g. DENKO SQMRC 218E

### Features and Application

Robust and resilient, the SQMRC series is a decorative luminaire encased in extruded aluminium material and suitable for wall and ceiling mounting, walkway, corridor and staircase areas. Ideal for outdoor applications, the unit can be ordered with optional High Frequency Electronic Ballast and/or Emergency Power Pack.

### Technical Data

Housing Material	Extruded aluminium
Diffuser Material	Gloss Mirror Louvre
Light Source	PLC and PLC (LED)
Mains Supply	230V AC 50/60Hz
Ballast	Magnetic ballast
Lampholder	Moulded from Polycarbonate Material
Protection	IP 20 Rating

### Ordering Information

MODEL	w/Emergency Power Pack	LAMP
DENKO SQMRC 218	DENKO SQMRC 218E	2 x PLC 18W
DENKO SQMRC 2008	DENKO SQMRC 2008E	2 x PLC 8W (LED)

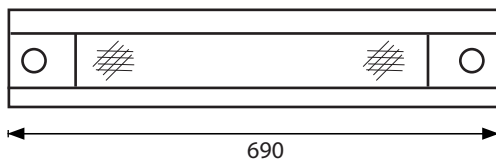
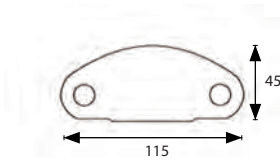
# T5 SENSOR LIGHT WITH INTELLIGENT AUTO DIMMING CIRCUITRY LUMINAIRES

## DENKO EZE series



SL1014

### Dimensions (mm)



SL1014

### Optional

- Emergency Power Pack (Add Suffix "E")  
e.g. DENKO EZE T5-SL1014E

### Features and Application

The Denko Eze series incorporate sensor technology and Intelligent Auto Dimming Circuitry into a compact surface luminaire that combines the cost effectiveness and energy saving characteristics of T5 fluorescent lamp. The single infra-red motion sensor provides a 6m x 4m area of coverage and auto dimming activates after 90 seconds of last detected movement to save energy. It is suitable for installations in low human traffic that staircase, corridor, walkway, underpass and overhead bridges.

### Technical Data

Housing Material	High Quality Gauge Sheet Steel With Epoxy Powder Coated			
Diffuser Material	Prismatic Type			
Light Source	Fluorescent TL5 lamp of 14W/28W			
Mains Supply	230V AC, 50/60Hz			
Ballast	Auto Dimming Electronic Ballast			
Lampholder	Moulded from Polycarbonate Material			
Protection	IP 40 Rating			
Detection Zone	8mm Diameter			
Number Of Sensor	2			
Input Voltage	220-240VAC, 50-60Hz			
Power Factor	>95%			
THD	<20 Degree			
	<b>SL1014</b>	<b>SL2014</b>	<b>SL1028</b>	<b>SL2028</b>
Lumens	1250	2500	2600	5200
Average Lamp Life (Hrs)	12000	12000	12000	12000
Colour Rendering Index	>85%	>85%	>85%	>85%
Maximum Power Consumption	14W	28W	28W	56W
Power Consumption Without Detection	9W	18W	18W	36W
Dimension (L x W x H)	690 x 115 x 45	690 x 162 x 54	1230 x 115 x 45	1230 x 162 x 54

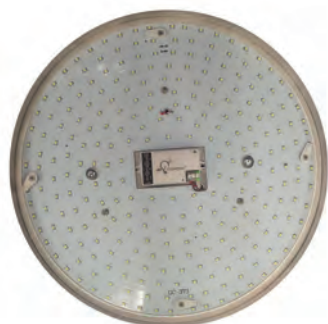
### Ordering Information

MODEL	MODEL (w/Emergency Pack)	LAMP
DENKO EZE T5-SL1014	DENKO EZE T5-SL1014E	1 x 14W
DENKO EZE T5-SL2014	DENKO EZE T5-SL2014E	2 x 14W
DENKO EZE T5-SL1028	DENKO EZE T5-SL1028E	1 x 28W
DENKO EZE T5-SL2028	DENKO EZE T5-SL2028E	2 x 28W

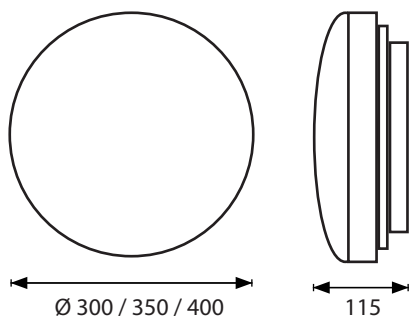
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# LED SONAR SENSOR LIGHT

## DENKO SONAR series



### Dimensions (mm)



### Optional

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

### Features and Application

The Denko Sonar is a new ceiling mounted LED luminaire that combines a state of the art microwave sensor for motion detection and an elegant brush finish for a modern and highly efficient light fixture. The spin aluminium housing allows excellent heat dissipation and is anodized for corrosion resistance. The double isolation circuit design prevents any LED failure from affecting the entire string, and helps eliminate current instability that causes main luminaire failure.

The intelligent motion detection sensor works by continuously scanning for motion within its preset detection zone (1m to Ø10m) and will go to full brightness upon detection. If there is no further detected motion after a preset hold time (5s / 15s / 600s / etc), the LED lamp will dim into a preset brightness (0% / 5% / 10% / 30% / 50%).

It is suitable for areas with low human traffic but needs to be lighted up in order to meet safety requirements. These areas include staircases, car parks, corridors, walkways, overhead bridges, underpass, etc.

### Technical Data

Housing Material	Spin aluminium with brush finishing		
Mains Supply	230V AC, 50/60Hz		
Model	<b>SONAR 12</b>	<b>SONAR 15</b>	<b>SONAR 18</b>
Wattage (Max)	12W	15W	18W
Wattage (Econ dimming mode)	3W	3W	3W
Lumens (1m)	1336	1700	1944
Dimension	300 x 115	350 x 115	400 x 115
LED Lamp Life	30,000 hours		
CCT K	3000K - 6000K		

### Ordering Information

MODEL	w/Emergency Powerpack	LAMP
DENKO SONAR 12	DENKO SONAR 12E	12W LED
DENKO SONAR 15	DENKO SONAR 15E	15W LED
DENKO SONAR 18	DENKO SONAR 18E	18W LED

# STANDARD MODES OF OPERATION

## **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(s) 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.