



Emergency Lighting **PRODUCT CATALOGUE**



Singapore's Leading Emergency Lighting Manufacturer



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.

Contents

PRODUCT	PAGE
EXIT SIGNS	6 - 10
EMERGENCY LIGHTS	11 - 26
EMERGENCY CONVERSION KITS	27 - 30
LUMINAIRES	31 - 35

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 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.

PRODUCT REFERENCE

EXIT SIGNS



SLED W1201M / RM | PG 6
SSE 18M / RM | PG 7



BLEX W2001M / RM | PG 8



BLEX W2001M / RM RECESSED | PG 9



WLEX 100M / RM | PG 10



EMERGENCY LIGHTS



DL 2018NM | PG 11



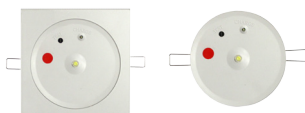
DL 2301NM / DL 2301NM (WP) | PG 12



LED-11NM | PG 13
LED-13NM | PG 17



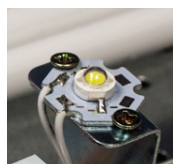
LED-11NM (ESTA) | PG 14
LED-13NM (ESTA) | PG 18



LED-11NM (SURFACE) | PG 15
LED-13NM (SURFACE) | PG 19



AUX GEM



AUX STAR



LED-11NM (AUX) | PG 16

EMERGENCY LIGHTS



HLG 110NM | PG 20



WEL 100NM | PG 21



CEL 28NM / (WP) | PG 24



CEL 11NM / WP | PG 25



DL 210NM | PG 22



DL 210NM (WP) | PG 23



CEL 13NM / WP | PG 26

EMERGENCY CONVERSION KITS



LED1330-M | PG 27



FL 140M-EV58 | PG 28



FL 140M-EV68 | PG 29



NMH5 | PG 30

LUMINAIRES



DENKO SMRI | PG 31



DENKO SMSI | PG 31



DENKO SMRC | PG 32



DENKO SSMRC | PG 32



DENKO SMRC LED | PG 33



DENKO EZE | PG 34



DENKO SONAR | PG 35

WHITE LED SLIM EMERGENCY EXIT SIGN

SLED W1201M / RM SERIES



PLS Listed
Emergency
Exit Sign



PSB Singapore



Class 1



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.

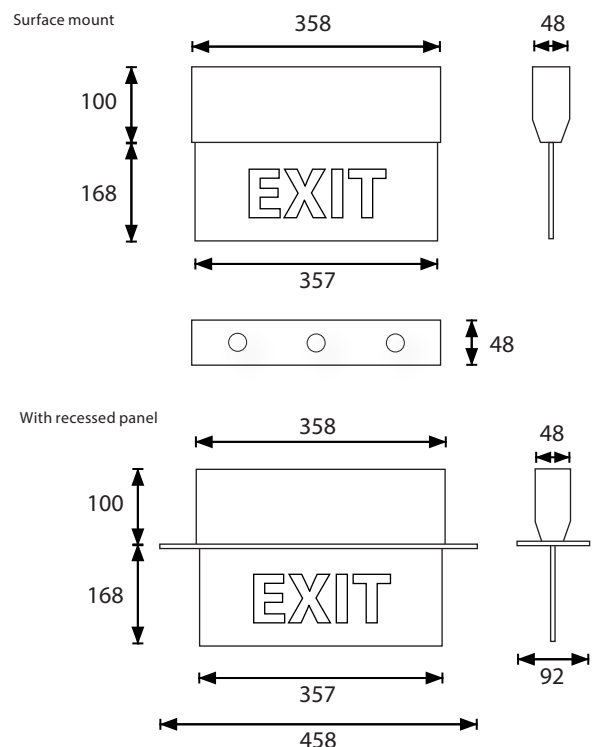
Technical Data

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	3VA
Battery	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	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	IP 20
Legend	White text/graphical symbol over ISO green background
Warranty	1 year

Options

- Recessed panel and bracket

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)	

SLIM EMERGENCY EXIT SIGN

SSE 18M / RM SERIES



PLS Listed
Emergency
Exit Sign



PSB Singapore



Features and Application

- Fluorescent emergency exit signs with option for Exit or Running Man signage.
- Optional recess plate and bracket available.
- Easy installation with wall, ceiling or pendant mounting options.



SSE 18M



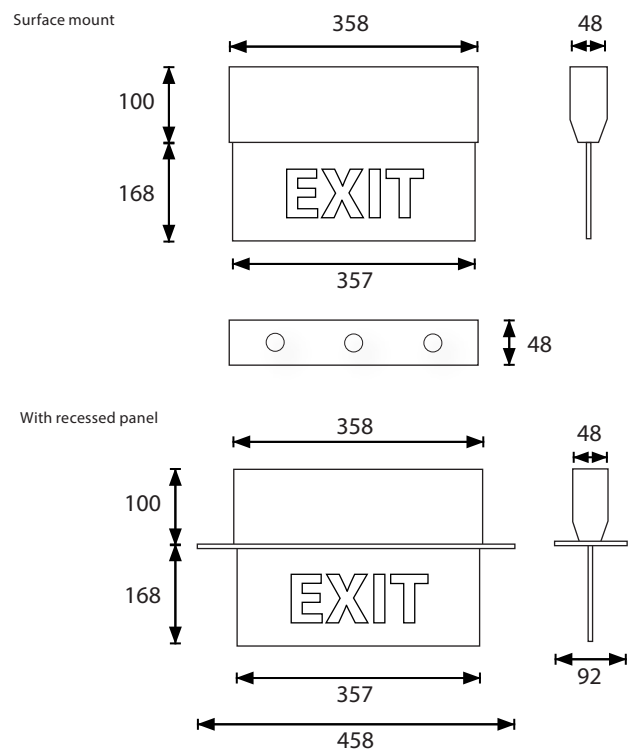
SSE 18RM Recessed

EXIT SIGN

Technical Data

Mode of Operation	Maintained
Lamp	8W Fluorescent
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	12VA
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)	2.4 kg / 2.6 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	IP 20
Legend	White text/graphical symbol over ISO green background
Warranty	1 year

Dimensions (mm)



Ordering Information

EXIT	LEGEND	RUNNING MAN	LEGEND
SSE 18M		SSE 18RM	
SSE 18M-E		SSE 18RM-E	
SSE 18M-T		SSE 18RM-T	
SSE 18M-D (Double-sided)		SSE 18RM-D (Double-sided)	

Options

- Recessed panel and bracket

LED SLIM BOX EMERGENCY EXIT SIGN

BLEX W2001M / RM SERIES



PLS Listed
Emergency
Exit Sign



PSB Singapore



Class 1



BLEX W2001M



BLEX W2001RM

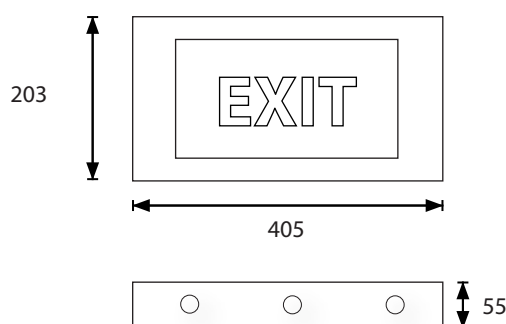
Features and Application

- 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.

Technical Data

Mode of Operation	Maintained
Lamp	1W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50/60Hz
Power Consumption	3VA
Battery	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	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/A1:2013; SS 263-2 (IEC 60598-2-22) /A2:2008
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	IP 20
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



PLS Listed
Emergency
Exit Sign



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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.

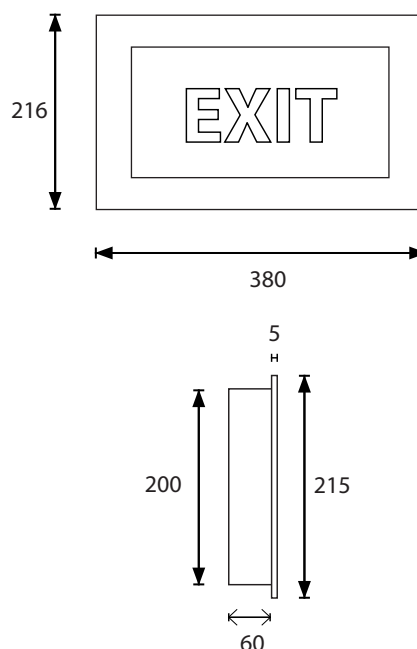


EXIT SIGN

Technical Data

Mode of Operation	Maintained
Lamp	1W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50/60Hz
Power Consumption	3VA
Battery	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	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 263-2 (IEC 60598-2-22) /A2:2008
Installation	Recessed wall mounting
Cable Entry	4 x 20mm Ø knockout hole
Legend	White text/graphical symbol over ISO green background
IP Rating	IP 20
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 1



WLEX 100M



WLEX 100RM

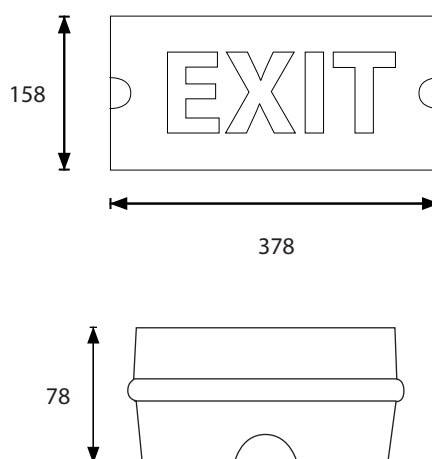
Features and Application

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

Technical Data

Mode of Operation	Maintained
Lamp	2W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50/60Hz
Power Consumption	3VA
Battery	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	Injection moulded fire retardant polycarbonate housing
Weight (Nett/Gross)	1.2 kg / 1.3 kg
Compliance	SS 563-1:2010; SS 563-2:2010; SS 263-2 (IEC 60598-2-22) /A2:2008
Installation	Wall or pendant mounting
Legend	White text/graphical symbol over ISO green background
IP Rating	IP 65
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	

SAFEGWAY LED TWIN EMERGENCY LIGHT

DL 2018NM



PLS Listed
Emergency
Lighting



F Class 2

PSB Singapore

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.

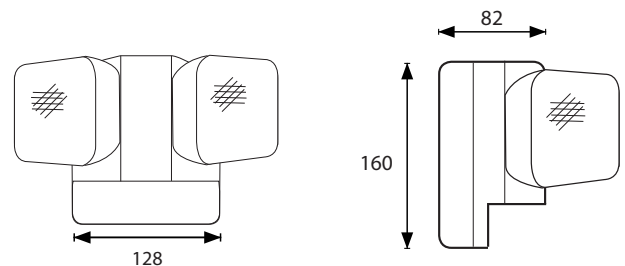


EMERGENCY LIGHT

Technical Data

Mode of Operation	Non-maintained
Lamp	2 x 1W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	2VA
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 563-2:2010; SS 263-2 (IEC 60598-2-22) /A2:2008
Installation	Wall or pendant mounting
Cable Entry	Standard 20mm Ø knockout hole
IP Rating	IP 20
Warranty	1 year

Dimensions (mm)



Ordering Information

MODEL	LAMP
DL 2018NM	2 x 1W High flux white LED

DECORATIVE LED TWIN-FLOOD EMERGENCY LIGHT

DL 2301NM / DL 2301NM (WP)



PLS Listed
Emergency
Lighting



PSB Singapore



Class 1



DL 2301NM



DL 2301NM (WP)

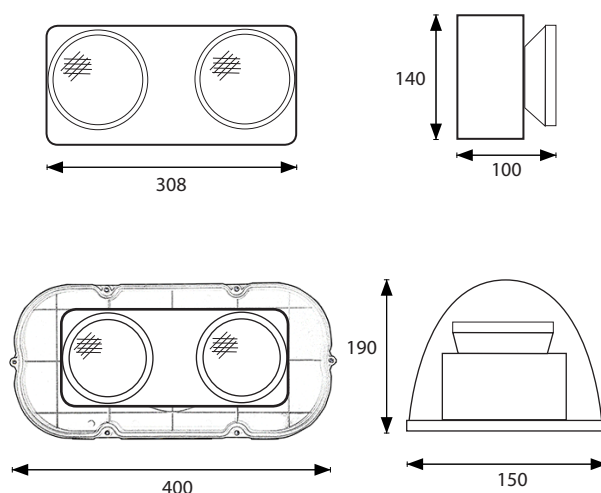
Features and Application

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

Technical Data

Mode of Operation	Non-maintained
Lamp	2 x 1W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	2VA
Battery	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	2 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 563-2:2010; SS 263-2 (IEC 60598-2-22) /A2:2008
Installation	Wall or pendant mounting
Cable Entry	Standard 20mm Ø knockout hole
IP Rating	IP 20 - DL 2301NM IP 65 - DL 2301NM WP
Warranty	1 year

Dimensions (mm)



Ordering Information

MODEL	LAMP
DL 2301NM	1W High flux white LED
DL 2301NM (WP)	1W High flux white LED

Options

- Standard
- Weatherproof
- Capsule

LED RECESSED EMERGENCY LIGHT

LED-11NM



PLS Listed
Emergency
Lighting



PSB Singapore



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.

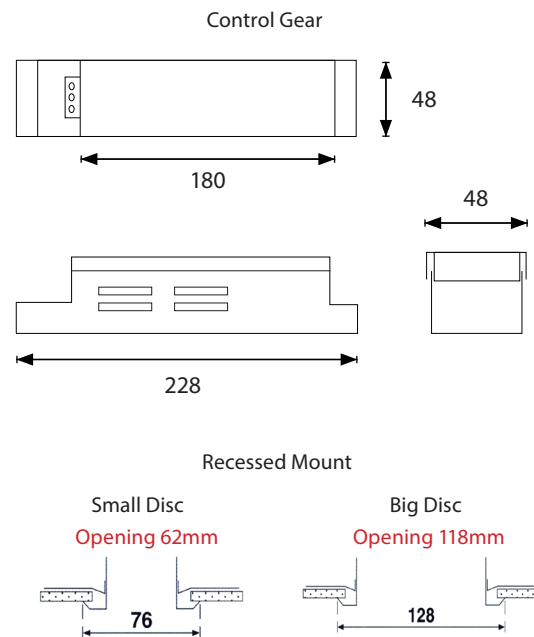


EMERGENCY LIGHT

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	2VA
Battery	High temperature NIMH/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 563-2:2010; SS 263-2 (IEC 60598-2-22) /A2:2008
Installation	Recessed
IP Rating	IP 20
Warranty	1 year

Dimensions (mm)



Ordering Information

MODEL	LAMP
LED-11NM (Small Disc)	1W High flux white LED
LED-11NM (Big Disc)	1W High flux white LED

LED RECESSED EMERGENCY LIGHT

LED-11NM (ESTA)



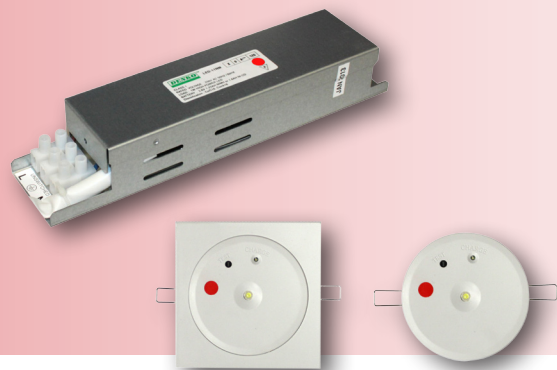
PLS Listed
Emergency
Lighting



PSB Singapore



Class 1



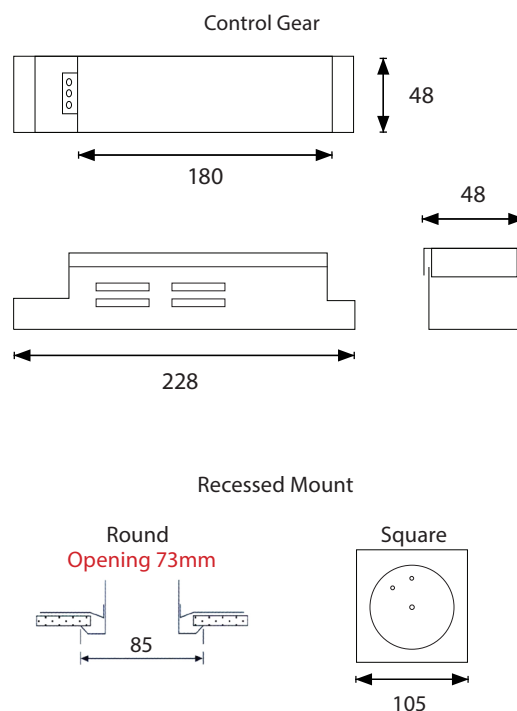
Features and Application

- Recessed mounted self-contained LED emergency light for easy installation on ceilings.
- Ideal for indoor areas where aesthetics are important.
- LED lamps provide high efficiency, durability and low energy consumption.
- Comes with an optional square adaptor for an alternative outlook.

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	2VA
Battery	High temperature NIMH/NICD battery
Charger	Fully automatic
Charging Monitor	Ø 3mm 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 Disc - Polycarbonate
Weight (Nett/Gross)	Control gear - 0.5 kg / 0.55 kg Disc - 0.1 kg / 0.15 kg
Compliance	SS 563-2:2010; SS 263-2 (IEC 60598-2-22) /A2:2008
Installation	Recessed
IP Rating	IP 20
Warranty	1 year

Dimensions (mm)



Ordering Information

MODEL	LAMP
LED-11NM (ESTA)	1W High flux white LED

LED SURFACE EMERGENCY LIGHT

LED-11NM (SURFACE)



PLS Listed
Emergency
Lighting



PSB Singapore



Features and Application

- Surface mounted self-contained LED emergency light.
- LED lamps provide high efficiency, durability and low energy consumption.
- Control gear and lamp are encased in aluminium casing for easy installation.

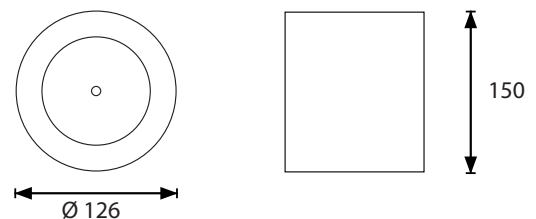


EMERGENCY LIGHT

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	2VA
Battery	High temperature NIMH/NICD battery
Charger	Fully automatic
Charging Monitor	Ø 3mm 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	Aluminium casing with epoxy powder coating
Weight (Nett/Gross)	0.8 kg / 0.85 kg
Compliance	SS 563-2:2010; SS 263-2 (IEC 60598-2-22) /A2:2008
Installation	Ceiling or pendant mounting
Cable Entry	Standard 20mm Ø knockout hole
IP Rating	IP 20
Warranty	1 year

Dimensions (mm)



Ordering Information

MODEL	LAMP
LED-11NM (SURFACE)	1W High flux white LED

LED AUXILLIARY EMERGENCY LIGHT

LED-11NM (AUX GEM) / (AUX STAR)



PLS Listed
Emergency
Lighting



PSB Singapore



Class 1



AUX GEM



AUX STAR



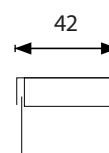
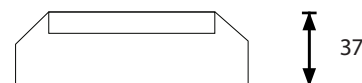
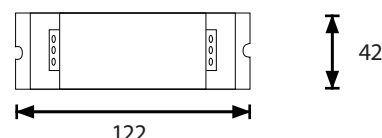
Features and Application

- 1W high flux white LED stand-alone self-contained emergency light solution.
- Easy installation with various types of light fittings.
- LED lamps provide high efficiency, durability and low energy consumption.

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	2VA
Battery	High temperature NIMH/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	Control gear - Electro-galvanised steel casing with epoxy powder coating AUX GEM - Aluminium AUX STAR - Aluminium based PCB
Weight (Nett/Gross)	Control gear - 0.25 kg / 0.35 kg Battery - 0.35 kg
Compliance	SS 563-2:2010; SS 263-2 (IEC 60598-2-22) /A2:2008
IP Rating	IP 20
Warranty	1 year

Dimensions (mm)



Ordering Information

MODEL	LAMP
LED-11NM (AUX GEM)	1W High flux white LED
LED-11NM (AUX STAR)	1W High flux white LED

LED RECESSED EMERGENCY LIGHT

LED-13NM



PLS Listed
Emergency
Lighting



F Class 1

PSB Singapore

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.

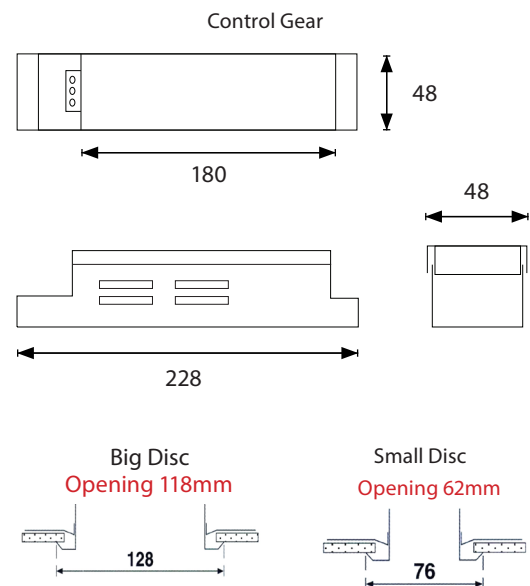


EMERGENCY LIGHT

Technical Data

Mode of Operation	Non-maintained
Lamp	3W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	2VA
Battery	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	Electro-galvanised steel casing with 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 563-2:2010; SS 263-2 (IEC 60598-2-22) / A2:2008
Installation	Recessed
IP Rating	IP 20
Warranty	1 year

Dimensions (mm)



Ordering Information

MODEL	LAMP
LED-13NM (Big disc)	3W High flux white LED
LED-13NM (Small disc)	3W High flux white LED

LED RECESSED EMERGENCY LIGHT

LED-13NM (ESTA)



PLS Listed
Emergency
Lighting



PSB Singapore



Class 1



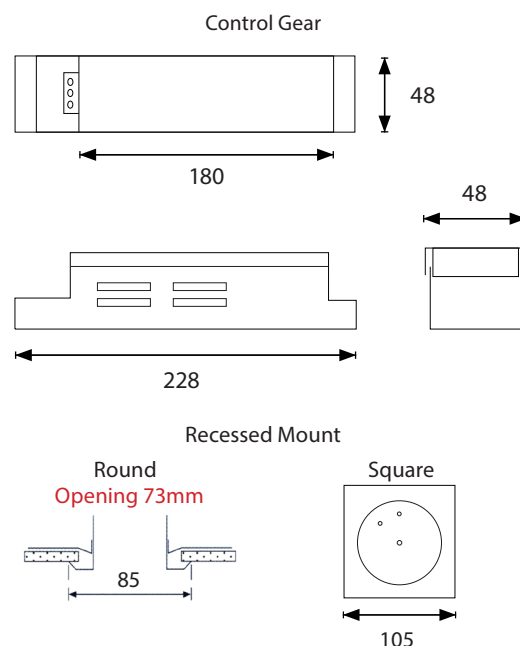
Features and Application

- Recessed mounted self-contained LED emergency light for easy installation on ceilings.
- Ideal for indoor areas where aesthetics are important.
- LED lamps provide high efficiency, durability and low energy consumption.
- Comes with an optional square adaptor for an alternative outlook.

Technical Data

Mode of Operation	Non-maintained
Lamp	3W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	2VA
Battery	High temperature NIMH battery
Charger	Fully automatic
Charging Monitor	Ø 3mm 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 Disc - Polycarbonate
Weight (Nett/Gross)	Control gear - 0.5 kg / 0.55 kg Disc - 0.1 kg / 0.15 kg
Compliance	SS 563-2:2010; SS 263-2 (IEC 60598-2-22) /A2:2008
Installation	Recessed
IP Rating	IP 20
Warranty	1 year

Dimensions (mm)



Ordering Information

MODEL	LAMP
LED-13NM (ESTA)	3W High flux white LED

LED SURFACE EMERGENCY LIGHT

LED-13NM (SURFACE)



PLS Listed
Emergency
Lighting



F Class 1

PSB Singapore

Features and Application

- Surface mounted self-contained LED emergency light.
- LED lamps provide high efficiency, durability and low energy consumption.
- Control gear and lamp are encased in aluminium casing for easy installation.

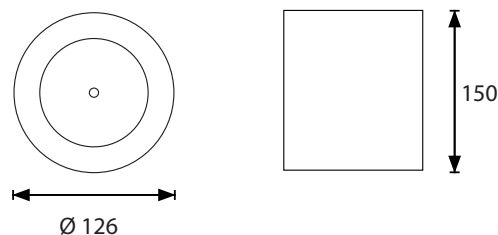


EMERGENCY LIGHT

Technical Data

Mode of Operation	Non-maintained
Lamp	3W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	2VA
Battery	High temperature NIMH battery
Charger	Fully automatic
Charging Monitor	Ø 3mm 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	Aluminium casing with epoxy powder coating
Weight (Nett/Gross)	0.8 kg / 0.9 kg
Compliance	SS 563-2:2010; SS 263-2 (IEC 60598-2-22) /A2:2008
Installation	Ceiling or pendant mounting
Cable Entry	Standard 20mm Ø knockout hole
IP Rating	IP 20
Warranty	1 year

Dimensions (mm)



Ordering Information

MODEL	LAMP
LED-13NM (SURFACE)	3W High flux white LED

RECESSED HALOGEN EMERGENCY LIGHT

HLG 110NM



PLS Listed
Emergency
Lighting



PSB Singapore



Class 1



Features and Application

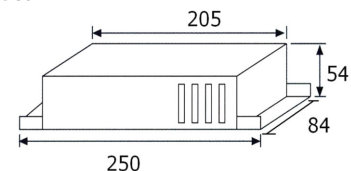
- Self-contained tungsten halogen emergency light for recessed installation on ceilings.
- Suitable for various types of indoor environments.
- Comes with option for small or big disc.

Technical Data

Mode of Operation	Non-maintained
Lamp	10W Tungsten Halogen lamp
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	3VA
Battery	Lead acid 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	2 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing with epoxy powder coating
Weight (Nett/Gross)	Control gear - 1.4 kg / 1.5 kg Small disc - 0.1 kg / 0.15 kg Big disc - 0.2 kg / 0.25 kg
Compliance	SS 563-2:2010; SS 263-2 (IEC 60598-2-22) / A2:2008
Installation	Recessed
IP Rating	IP 20
Warranty	1 year

Dimensions (mm)

Control Gear

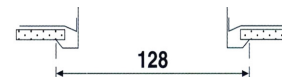


Recessed Mount

Small Disc
Opening 62mm



Big Disc
Opening 118mm



Ordering Information

MODEL	LAMP
HLG 110NM (Small disc)	10W Tungsten Halogen
HLG 110NM (Big disc)	10W Tungsten Halogen

WEATHERPROOF LED EMERGENCY LIGHT

WEL 100NM



PLS Listed
Emergency
Lighting



PSB Singapore

F Class 1

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 is ideal for high humidity or marine environments and highly recommended for outdoor use.

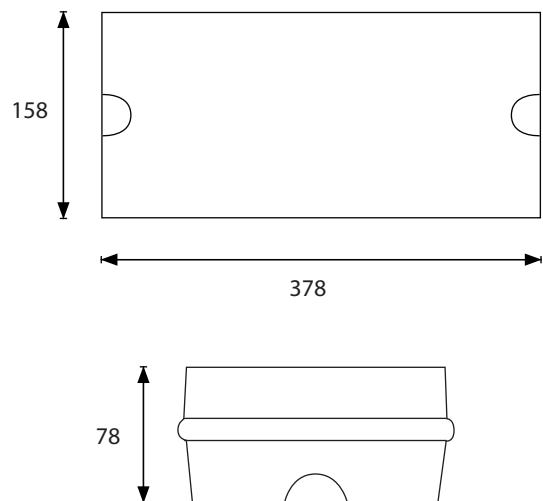


EMERGENCY LIGHT

Technical Data

Mode of Operation	Non-maintained
Lamp	2W High flux white LED
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	2VA
Battery	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	Injection moulded fire retardant polycarbonate housing
Weight (Nett/Gross)	1.2 kg / 1.4 kg
Compliance	SS 563-2/A1:2013 SS 263-2 (IEC 60598-2-22) /A2:2008
Cable Entry	Standard 20mm Ø knockout hole
IP Rating	IP 65
Warranty	1 year

Dimensions (mm)



Ordering Information

MODEL	LAMP
WEL 100NM	2W High flux white LED

TWIN-FLOOD EMERGENCY LIGHT

DL 210NM



PLS Listed
Emergency
Lighting



PSB Singapore



Class 1



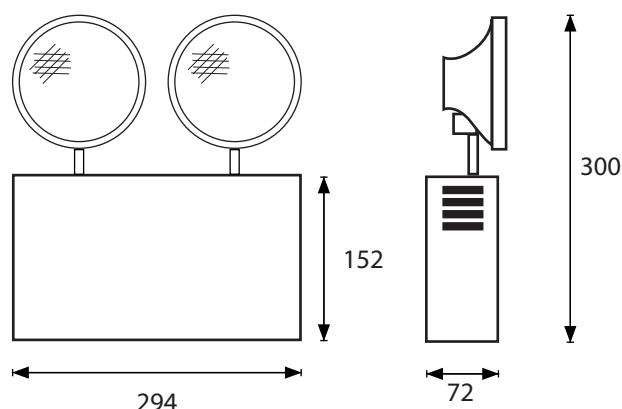
Features and Application

- Dual 10W tungsten halogen self-contained emergency light.
- Adjustable lamp heads to project light in desired position.
- Robust steel housing to provide good protection.

Technical Data

Mode of Operation	Non-maintained
Lamp	2 x 10W Tungsten Halogen lamp
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	4VA
Battery	Lead acid 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	2 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 (Nett/Gross)	2.3 kg / 2.45 kg
Compliance	SS 563-2:2010; SS 263-2 (IEC 60598-2-22) /A2:2008
Installation	Wall or pendant mounting
Cable Entry	1 x 20mm Ø knockout hole
IP Rating	IP 20
Warranty	1 year

Dimensions (mm)



Ordering Information

MODEL	LAMP
DL 210NM	2 x 10W Tungsten Halogen

TWIN-FLOOD WEATHERPROOF EMERGENCY LIGHT

DL 210NM (WP)



PLS Listed
Emergency
Lighting



F Class 1

PSB Singapore



EMERGENCY LIGHT

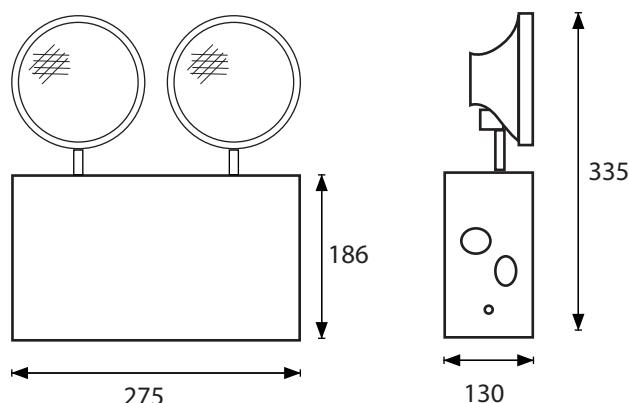
Features and Application

- Weatherproof housing with dual 10W tungsten halogen self-contained emergency light.
- Adjustable lamp heads to project light in desired position.
- Robust, fire-retardant and weatherproof polycarbonate housing ideal for outdoor operation.
- Ideal for outdoor areas such as dusty, humid and corrosive environments including car parks, loading bays, workshops, laboratories and corridor areas.

Technical Data

Mode of Operation	Non-maintained
Lamp	2 x 10W Tungsten Halogen lamp
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	4VA
Battery	Lead acid 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	2 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	High impact polycarbonate
Weight (Nett/Gross)	3.5 kg / 3.7 kg
Compliance	SS 563-2:2010; SS 263-2 (IEC 60598-2-22) /A2:2008
Installation	Wall or pendant mounting
Cable Entry	1 x 20mm Ø knockout hole
IP Rating	IP 65
Warranty	1 year

Dimensions (mm)



Ordering Information

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

COMPACT EMERGENCY LIGHT

CEL 28NM / CEL 28NM (WP)



PLS Listed
Emergency
Lighting



PSB Singapore



Class 1



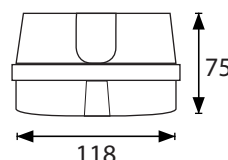
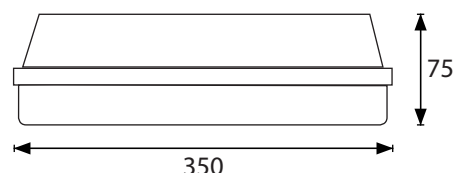
Features and Application

- Self-contained emergency light with fluorescent lamp.
- 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	2 x 8W Fluorescent lamp
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	3VA
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	Injection moulded fire retardant housing with clear reeded diffuser
Weight (Nett/Gross)	1.3 kg / 1.5 kg
Compliance	SS 563-2/A1:2013; SS 263-2 (IEC 60598-2-22) /A2:2008
Installation	Ceiling, wall or pendant mounting
Cable Entry	Standard 20mm Ø knockout hole
IP Rating	IP 20 - CEL 28NM IP 65 - CEL 28NM (WP)
Warranty	1 year

Dimensions (mm)



Ordering Information

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

Options

- Standard
- Weatherproof

LED COMPACT EMERGENCY LIGHT

CEL 11NM / CEL 11NM WP



PLS Listed
Emergency
Lighting

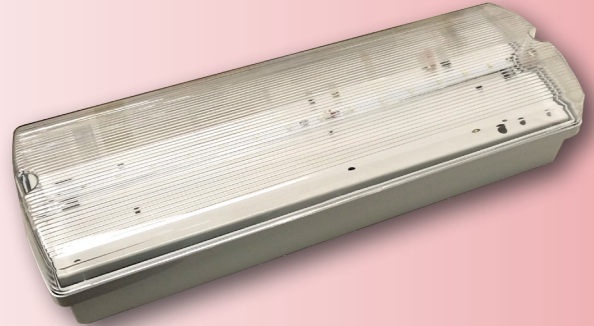


PSB Singapore



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.

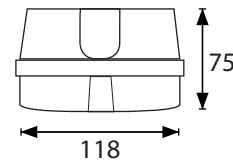
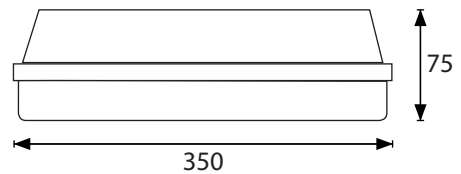


EMERGENCY LIGHT

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	2VA
Battery	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	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 263-2 (IEC 60598-2-22) /A2:2008
Installation	Ceiling, wall or pendant mounting
Cable Entry	Standard 20mm Ø knockout hole
IP Rating	IP 20 - CEL 11NM IP 65 - CEL 11NM WP
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

LED COMPACT EMERGENCY LIGHT

CEL 13NM / CEL 13NM WP



PLS Listed
Emergency
Lighting



PSB Singapore



Class 1



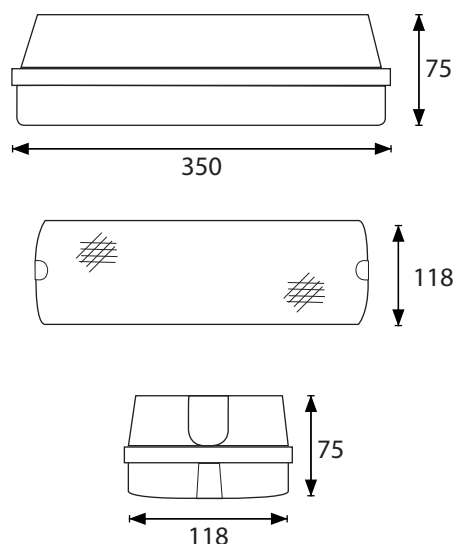
Features and Application

- 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	3W High flux white LED tube
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	2VA
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)	1.05 kg / 1.15 kg
Compliance	SS 563-2/A1:2013; SS 263-2 (IEC 60598-2-22) / A2:2008
Installation	Ceiling, wall or pendant mounting
Cable Entry	Standard 20mm Ø knockout hole
IP Rating	IP 20 - CEL 13NM IP 65 - CEL 13NM WP
Warranty	1 year

Dimensions (mm)



Ordering Information

MODEL	LAMP
CEL 13NM	3W High flux white LED
CEL 13NM WP	3W High flux white LED

Options

- Standard
- Weatherproof

LED EMERGENCY CONVERSION KIT

LED1330-M



PLS Listed

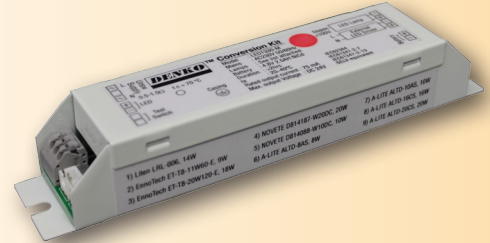


Class 1

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.

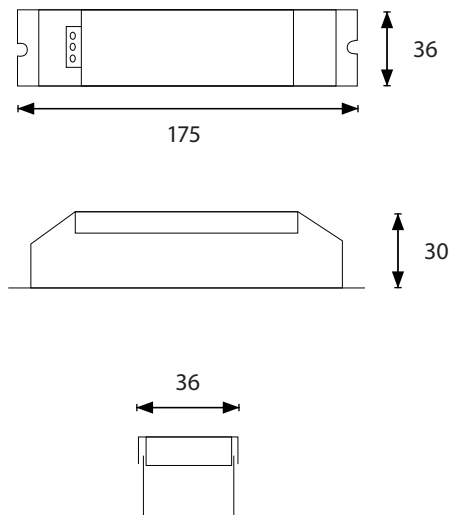


EMERGENCY
CONVERSION KIT

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	3VA
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



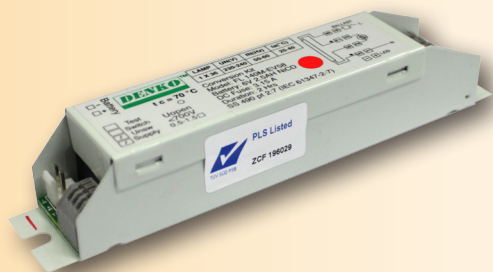
PLS Listed



PSB Singapore



Class 1



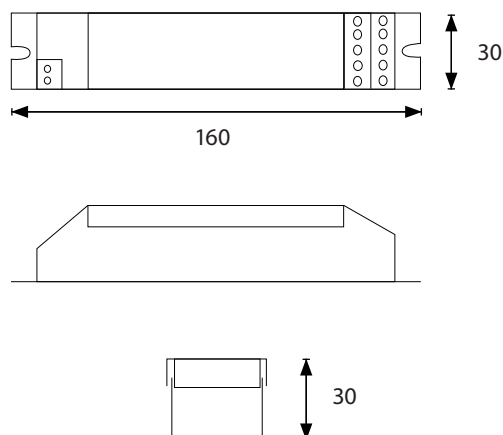
Features and Application

- 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	3VA
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

COMPACT EMERGENCY CONVERSION KIT

FL140M-EV68



PLS Listed



Class 1

PSB Singapore

Features and Application

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

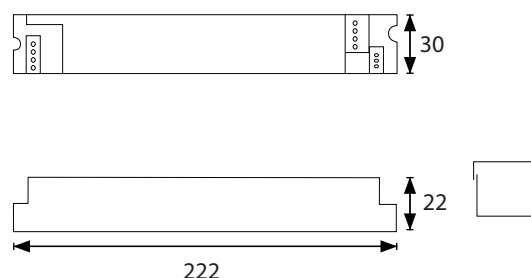


EMERGENCY
CONVERSION KIT

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	4VA
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)	Control gear - 0.2 kg / 0.3 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-EV68	Fluorescent lamp Compact fluorescent lamp

HALOGEN EMERGENCY BATTERY PACK

NMH5



PLS Listed



PSB Singapore



Class 1



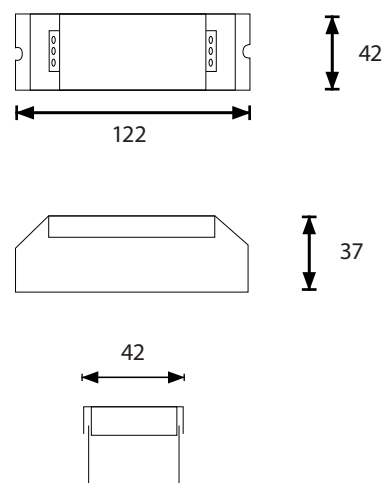
Features and Application

- Designed for use in light fittings with a 5 watt tungsten halogen lamp.
- Compact size suitable for use in various environments.

Technical Data

Mode of Operation	Non-maintained
Lamp	5W Tungsten Halogen lamp
Operating Temperature	ta 0°C ~ 50°C
Mains Supply	230V AC 50Hz/60Hz
Power Consumption	3VA
Battery	High temperature NICD battery
Charger	Fully automatic
Lamp Circuit Continuity Monitor	Ø 5mm green LED
Charging Monitor	Ø 5mm green LED
Recharge Period	24 hours
Testing Facility	Test-switch for independent testing
Emergency Duration	2 hours
Safety Feature	Low-voltage cut-off to prevent over-discharge of battery
Construction	Electro-galvanised steel casing with epoxy powder coating
Weight (Nett/Gross)	Control gear - 0.25 kg / 0.35 kg Battery - 0.35 kg
Compliance	SS 563-2:2010; SS 263-2 (IEC 60598-2-22) /A2:2008
IP Rating	IP 20
Warranty	1 year

Dimensions (mm)



Ordering Information

MODEL	LAMP
NMH5	5W Tungsten Halogen lamp

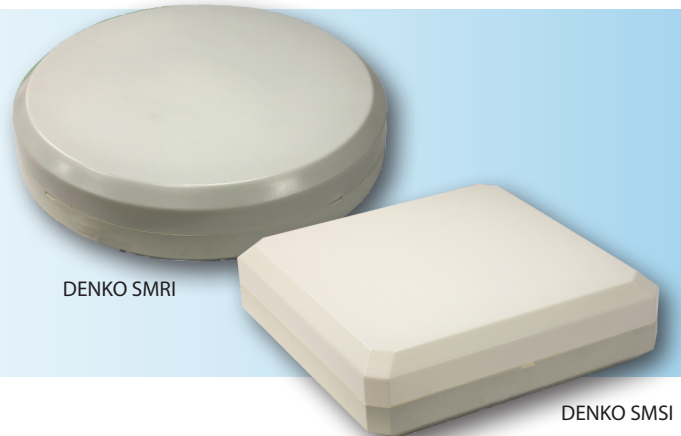
STAIRCASE LUMINAIRES IP65

DENKO SMRI / SMSI SERIES



Features and Application

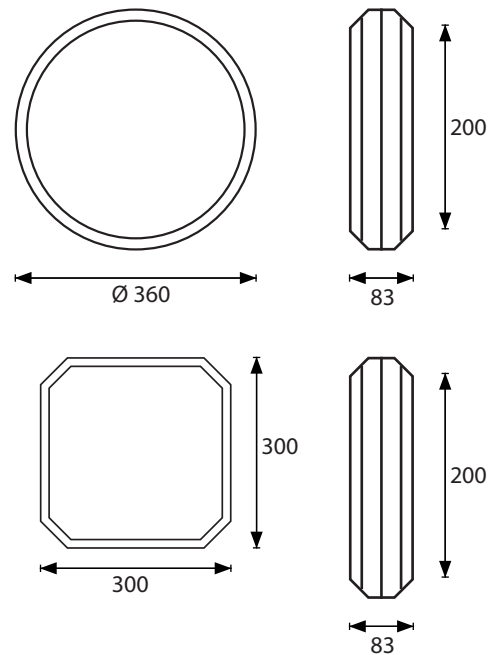
- IP65 weatherproof, aesthetic and resilient luminaire made of polycarbonate base and PMMA diffuser.
- Ideal for outdoor areas such as dusty, humid and corrosive environments including car parks, loading bays, workshops, laboratories and corridor areas.
- Can be installed with optional High Frequency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



Technical Data

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

Dimensions (mm)



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

Options

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

DECORATIVE STAIRCASE LUMINAIRES

DENKO SMRC / SSMRC SERIES



DENKO SMRC



DENKO SSMRC

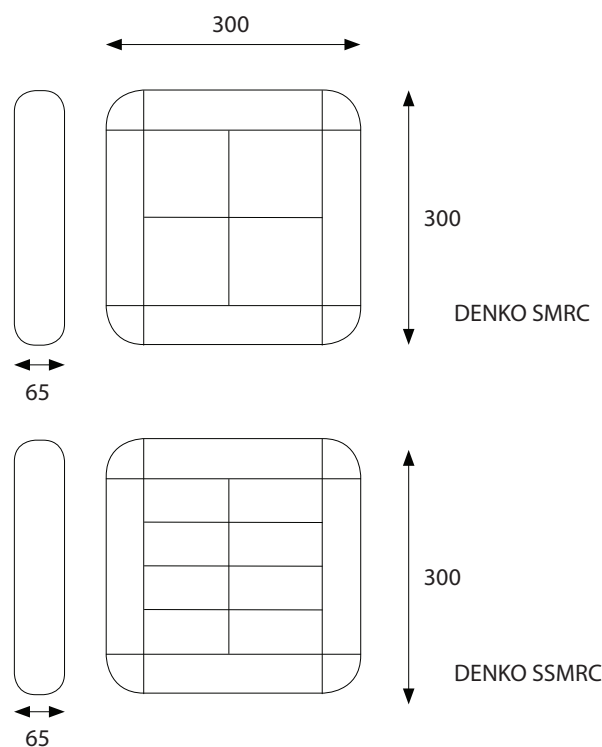
Features and Application

- 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	IP 20 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

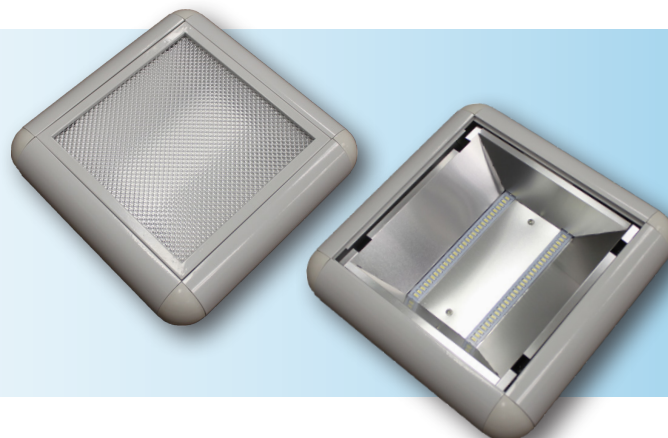
DECORATIVE STAIRCASE LUMINAIRES

DENKO SMRC LED



Features and Application

- Robust and resilient, the Denko SMRC LED is a LED decorative luminaire encased in extruded aluminium material.
- Suitable for mounting on walls and ceilings, walkways, corridors and staircase areas.
- Optional emergency power pack is available.

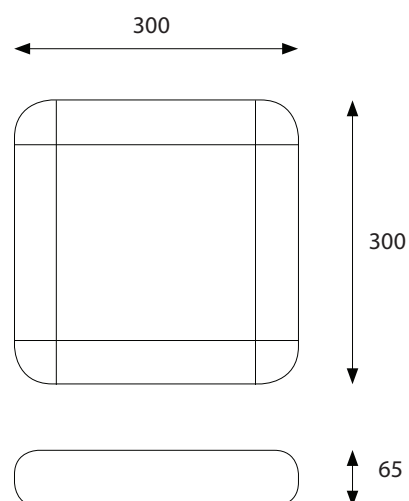


LUMINAIRE

Technical Data

Housing Material	Aluminium housing with powder coating
Diffuser Material	Prismatic diffuser
Light Source	Epistar LED chips 5630 SMD
Lamp	2 x 10W LED
Mains Supply	230V AC 50/60Hz
Luminous Flux	1920 - 2250 lm
CCT	2700 - 6500K
Beam Angle	120°
CRI	85%
Weight	1.5kg
Protection	IP 20 Rating

Dimensions (mm)



Options

- Emergency Power Pack (Add Suffix "E")
e.g. DENKO SMRC LED-E
- Microwave sensor

Ordering Information

MODEL	MODEL W/ EMERGENCY PACK	LAMP
DENKO SMRC LED	DENKO SMRC LED-E	2 x 10W LED

T5 SENSOR LIGHT WITH INTELLIGENT AUTO DIMMING DENKO EZE SERIES



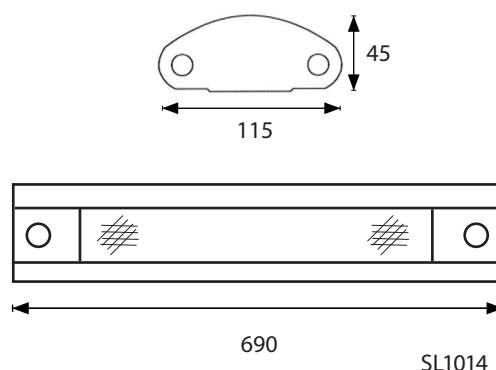
Features and Application

- Sensor and Intelligent Auto Dimming System integrated with T5 fluorescent lamp for energy saving.
- 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 with low human traffic such as staircases, corridors, walkways, underpasses 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%

Dimensions (mm)



	SL1014	SL2014	SL1028	SL2028
Lumens	1250	2500	2600	5200
Average Lamp Life (Hours)	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

Options

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

LED SONAR SENSOR LIGHT

DENKO SONAR 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.

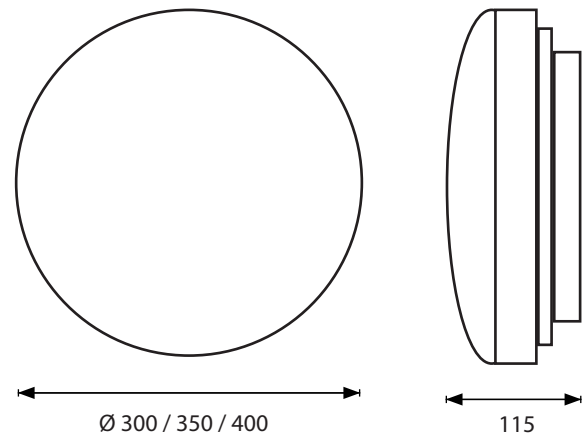


LUMINAIRE

Technical Data

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

Dimensions (mm)



Ordering Information

MODEL	MODEL W/EMERGENCY PACK	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

Options

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

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