

EMERGENCY LIGHTING LUMINAIRES – LED RINA / WELCO

PRODUCT LIST



Wireless communication, Wi-Fi (802.11 b/g/n)
Possible to access from anywhere in the world with cloud technology
Remote monitoring and testing with WELCO software
SMD power LED application
Long life-time (50.000 hours)
Emergency lighting function by interruption of the unswitched phase
Emergency lighting function in case of low-voltage
3 hours duration in case of emergency
Status display with green and red LEDs
Test switch
High-temperature Ni-Cd battery cells
Overcharge and deep discharge protection
Polycarbonate case
Recessed mounted
Asymmetric lens
Optional - Symmetric lens application
Optional - Surface mounted application
Optional - LiFePO4 battery application

PRODUCT CODE	RATED DURATION	OPERATING MODE*	LIGHT SOURCE	LIGHT INTENSITY on EMERGENCY**	TYPE OF MOUNTING	BATTERY CHARGING TIME
AA104-RINA/WELCO/1W	3 h	Non-Maintained	Power LED	105->82 lm	Recessed / Surface Mounted	24 h
AA104-RINA/WELCO/2W	3 h	Non-Maintained	Power LED	205->160 lm	Recessed / Surface Mounted	24 h
AA104-RINA/WELCO/3W	3 h	Non-Maintained	Power LED	305->238 lm	Recessed / Surface Mounted	24 h
AA104-RINA/WELCO/4W	3 h	Non-Maintained	Power LED	405->316 lm	Recessed / Surface Mounted	24 h

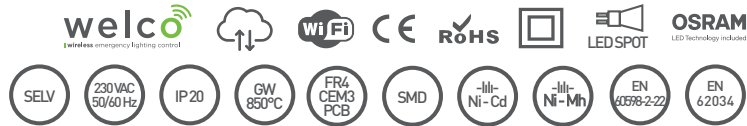
* Non-maintained : Lights in case of the mains failure.

** In lumen values, the larger value indicates the measurement in 60 seconds, the smaller value indicates the value at the end of 3 h.

MAINS DATA

PRODUCT CODE	BATTERY CAPACITY	RATED POWER (W) *	MAINS CURRENT (A) *	POWER FACTOR (PF)*	DIMENSIONS (mm)	WEIGHT (kg)	QTY in CARTON BOX
AA104-RINA/WELCO/1W	3,6V / 900mAh	1,45	0,018	0,35	Spot: 100 x 100 x 25 Unit: 41 x 169,5 x 31,5 Battery: 39 x 221 x 34	0,065 0,080 0,100	1
AA104-RINA/WELCO/2W	3,6V / 1800mAh	1,65	0,019	0,37	Spot: 100 x 100 x 25 Unit: 41 x 169,5 x 31,5 Battery: 39 x 221 x 34	0,065 0,080 0,165	1
AA104-RINA/WELCO/3W	3,6V / 3000mAh	2,60	0,024	0,45	Spot: 100 x 100 x 25 Unit: 41 x 169,5 x 31,5 Battery: 39 x 221 x 34	0,065 0,080 0,255	1
AA104-RINA/WELCO/4W	3,6V / 4000mAh	3,15	0,027	0,48	Spot: 100 x 100 x 25 Unit: 41 x 169,5 x 31,5 Battery: 39 x 221 x 34	0,065 0,080 0,390	1

* Measured under 230 V mains.



In accordance with EN 60598-1, EN 60598-2-22, EN 62034 standards.

TECHNICAL DATA

SUPPLY VOLTAGE :	230 VAC 50/60 Hz	LIGHT SOURCE :	Power LED
AMBIENT TEMPERATURE (ta) :	0 °C ... +40 °C	DIFFUSER :	Symmetric / Asymmetric LENS
RATED DURATION :	3 h	PROTECTION CLASS :	IP 20
BATTERY CHARGING TIME :	24 h	INSULATION CLASS :	II
BATTERY TYPE :	3,6V Ni-Cd/Ni-Mh		

LED INDICATION FUNCTIONS

Permanent GREEN	Charge mode
Fast flashing GREEN (0,1s on - 0,1s off)	Function test
Slow flashing GREEN (1s on - 1s off)	Duration test
Permanent RED	Load failure
Slow flashing RED (1s on - 1s off)	Battery failure
Fast flashing RED (0,1s on - 0,1s off)	Charging failure
Double pulsing GREEN	Inhibit mode
Binary transmission of address via GREEN/RED	Addressing or identification
GREEN and RED off	Emergency mode

TEST SWITCH FUNCTIONS

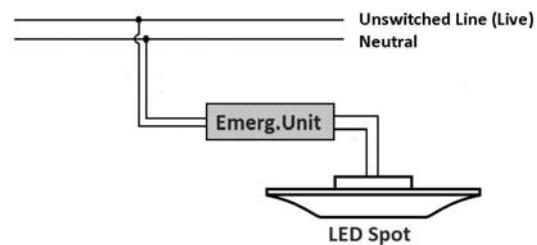
Short press (<1s)	Starts the function test or terminate the all tests.
Long press (>5s)*	Starts the duration test.

* The battery must be 100% full before the duration test can be started.

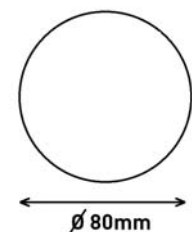
BATTERY DATA

VOLTAGE	CAPACITY	CELL TYPE	CELL SIZE (mm)	QTY OF CELLS	DIMENSIONS (mm)	WEIGHT (kg)
3,6V	900mAh (Ni-Cd)	AA	15	3	15 x 153±3 x 15	0,085
3,6V	1800mAh (Ni-Cd)	SC	23	3	23 x 129±3 x 23	0,150
3,6V	3000mAh (Ni-Cd)	C	26	3	26 x 150±3 x 26	0,240
3,6V	4000mAh (Ni-Mh)	C	26	3	26 x 150±3 x 26	0,240

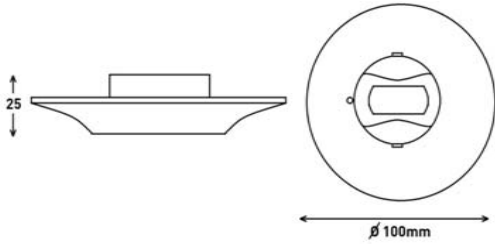
WIRING DIAGRAM



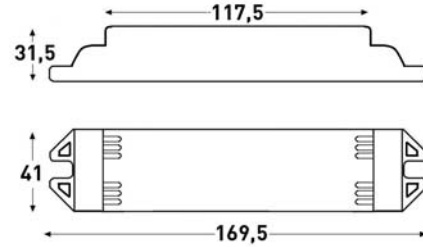
RECESSED MOUNTING HOLE SIZE



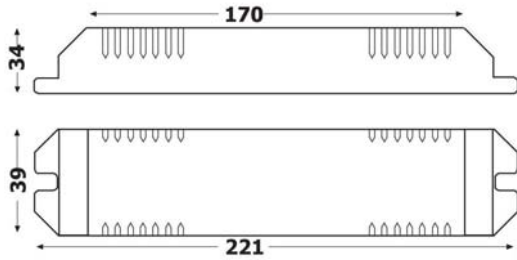
TECHNICAL DRAWING (LED SPOT)



TECHNICAL DRAWING (EMERGENCY UNIT)



TECHNICAL DRAWING (BATTERY BOX)



PHOTOMETRY DATA (1W)

Open Area (Anti-Panic) Lighting (for min. 0,5 lux) (Symmetric Lens)			Escape Route Lighting (for min. 1 lux) (Asymmetric Lens)		
Mounting Height (m)	Distance Between Luminaire and Wall (m)	Distance Between Luminaires (m)	Mounting Height (m)	Distance Between Luminaire and Wall (m)	Distance Between Luminaires (m)
2,00	2,00	4,00	2,00	5,50	10,50
2,50	2,50	5,00	2,50	7,00	13,50
3,00	2,50	5,00	3,00	6,50	16,00
3,50	3,00	6,00	3,50	6,00	16,50
4,00	3,00	6,50	4,00	3,50	11,50

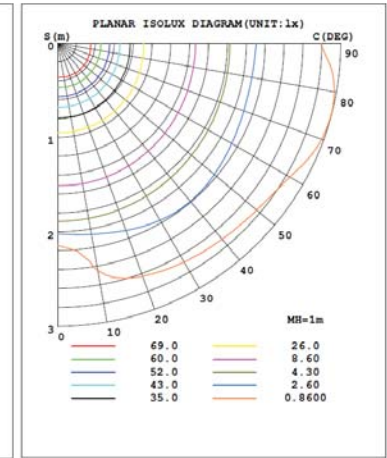
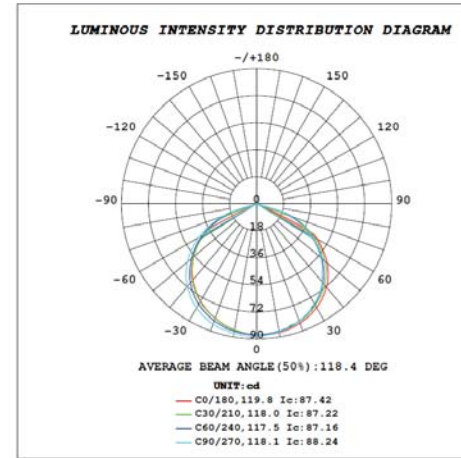
Open Area (Anti-Panic) Lighting (for min. 0,5 lux) (Symmetric Lens)

Mounting Height (m)	Distance Between Luminaire and Wall (m)	Distance Between Luminaires (m)
2,00	3,00	5,50
2,50	4,00	7,50
3,00	4,50	8,50
3,50	4,50	10,00
4,00	5,00	11,00

Escape Route Lighting (for min. 1 lux) (Asymmetric Lens)

Mounting Height (m)	Distance Between Luminaire and Wall (m)	Distance Between Luminaires (m)
2,00	6,50	11,50
2,50	8,00	15,50
3,00	9,50	18,50
3,50	10,50	21,50
4,00	11,00	24,00

LIGHT DISTRIBUTION CURVE (SYMMETRIC LENS)



LIGHT DISTRIBUTION CURVE (ASYMMETRIC LENS)

