

## EMERGENCY LIGHTING LUMINAIRES – LED RINA / DALI

### PRODUCT LIST



- 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
- Remote control and test with DALI interface
- 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 or Ni-MH battery application

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

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

### 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/DALI/1W	3,6V / 900mAh	1,45	0,018	0,35	Spot: 100 x 100 x 25	0,065	1
					Unit: 41 x 169,5 x 31,5	0,080	
					Battery: 39 x 221 x 34	0,100	
AA104-RINA/DALI/2W	3,6V / 1800mAh	1,65	0,019	0,37	Spot: 100 x 100 x 25	0,065	1
					Unit: 41 x 169,5 x 31,5	0,080	
					Battery: 39 x 221 x 34	0,165	
AA104-RINA/DALI/3W	3,6V / 3000mAh	2,60	0,024	0,45	Spot: 100 x 100 x 25	0,065	1
					Unit: 41 x 169,5 x 31,5	0,080	
					Battery: 39 x 221 x 34	0,255	
AA104-RINA/DALI/4W	3,6V / 4000mAh	3,15	0,027	0,48	Spot: 100 x 100 x 25	0,065	1
					Unit: 41 x 169,5 x 31,5	0,080	
					Battery: 39 x 221 x 34	0,390	

\* Measured under 230 V mains.



In accordance with EN 60598-1, EN 60598-2-22, EN 62386 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		

### 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

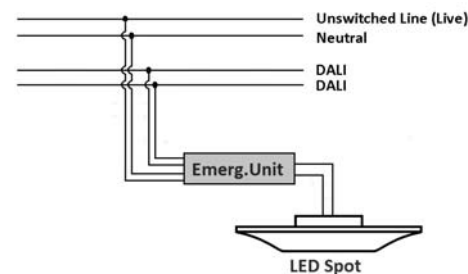
Short press (<1s)	Starts the function test or terminate the all tests.
Long press (>5s)*	Starts the duration test.

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

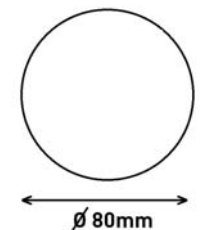
### BATTERY DATA

VOLTAGE	CAPACITY	CELL TYPE	CELL SIZE (mm)	QTY OF CELLS	DIMENSIONS (mm)	WEIGHT (kg)
3,6V	900mAh	AA	15	3	15 x 153±3 x 15	0,085
3,6V	1800mAh	SC	23	3	23 x 129±3 x 23	0,150
3,6V	3000mAh	C	26	3	26 x 150±3 x 26	0,240
3,6V	4000mAh	D	33	3	33 x 180±3 x 33	0,375

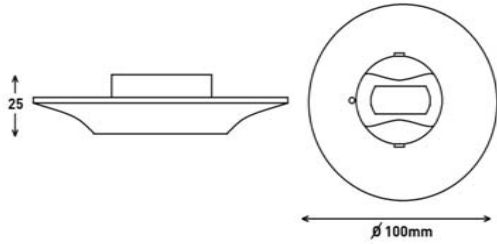
### WIRING DIAGRAM



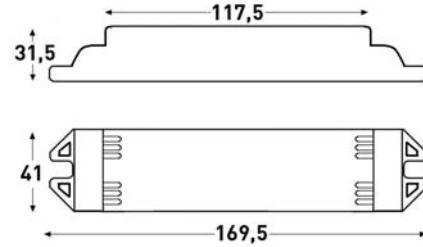
### RECESSED MOUNTING HOLE SIZE



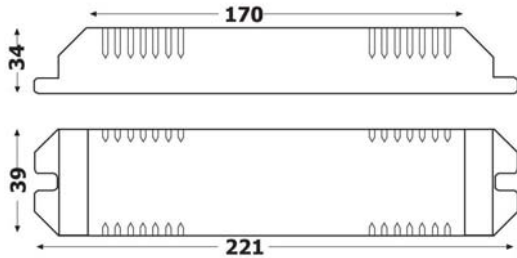
#### TECHNICAL DRAWING (LED SPOT)



#### TECHNICAL DRAWING (EMERGENCY UNIT)



#### TECHNICAL DRAWING (BATTERY BOX)

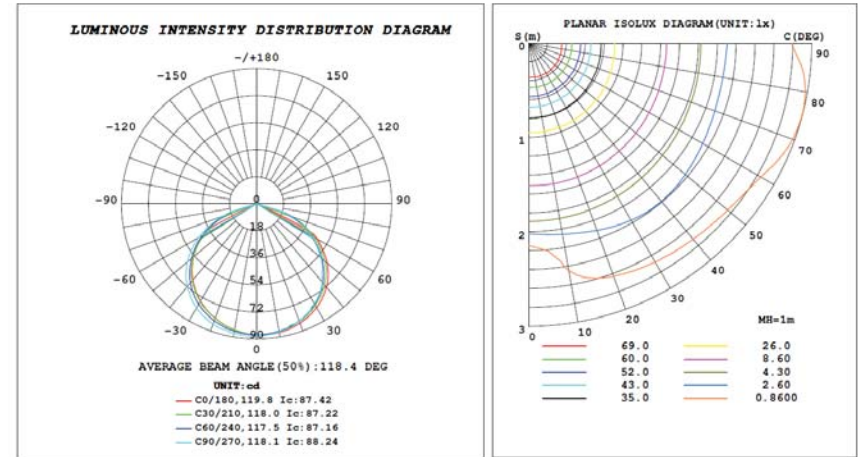


### PHOTOMETRY DATA (1W)

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)			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	3,00	5,50	2,00	6,50	11,50
2,50	4,00	7,50	2,50	8,00	15,50
3,00	4,50	8,50	3,00	9,50	18,50
3,50	4,50	10,00	3,50	10,50	21,50
4,00	5,00	11,00	4,00	11,00	24,00

### LIGHT DISTRIBUTION CURVE (SYMMETRIC LENS)



### LIGHT DISTRIBUTION CURVE (ASYMMETRIC LENS)

