

# 9110 Series

## LED EXIT Light



### General Description

9110 series of EXIT lights are sleek LED luminaire, decorative and suitable for wall mounting and also wall semi flush mounting. The 3.5 w power consumption is another added feature.

This range has self-contained models with manual or auto test options, and has battery option of 1 hr or 3 hrs standby time. The DALI models come with 3 hrs of battery stand by time. These EXIT luminaire are single & double face universal type, making it suitable for installation at multiple locations.

The batteries for this range are fully sealed, maintenance free, and safety tested as per EN standards. The luminaire has TUV approval, and has RoHS (Restriction of Hazardous Substances) compliance.

This series of luminaires will maintain the same lux output during the entire emergency mode operation as specified (only the battery being used to power the lamp and fitting controls). This is achieved as our luminaires are working with "constant current" technology. The same current output is maintained even if the battery voltage goes down. The luminaire lamp current is totally cut off when the battery voltage falls below a certain pre-determined voltage. Leaving enough charge to power the control module.

### AUTO Test

Auto-Test Option provides automatic testing of light fitting when used without DALI central monitoring option, and provides continuous monitoring of the unit and indicates service alert using dual-color LED lamp

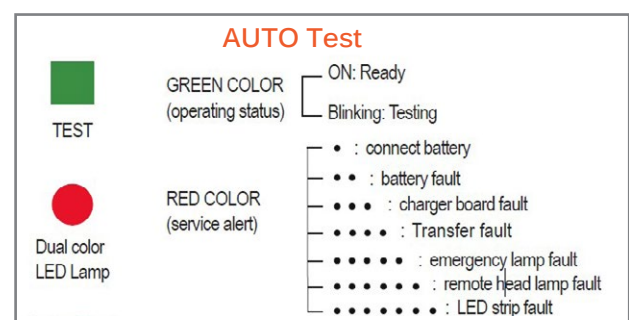
**The unit will automatically initiate a Self-Test and Self-Diagnostics test as follows:**

- Verifies battery disconnection, charger failure, lamp failure and transformer
- failure at every 5 seconds.
- One minute self-testing every month.
- 30 minutes self-testing on the 6th month of the year after installation.
- 90 minutes self-testing on the 12th month of the year after installation.
- Automatically indicates lamp, battery and charger status by dual-color
- LED lamp.
- Factory preset - does not need field adjustment.



### Main Features

- Compact and decorative design.
- LED self contained luminaire with options for manual test, AUTO test, and DALI monitoring.
- Ni-MH battery.
- Single and double face universal.
- Replaceable pictogram design, including right arrow, left arrow, and no arrow pictograms in package.
- High luminance model optional.
- Low operation cost via low power consumption.
- Maintained and non-maintained operation changeable.
- Material of luminaire compliant with the glow wire test at temperature of 850C.
- RoHS compliance.



## Manual Test

Tests are initiated manually, and can be initiated by the following action:

Press test button once	30 seconds test
Press test button twice (within 2 seconds)	3 minutes test
Press test button 3 times (within 2 seconds)	30 minutes test
Press test button 4 times (within 2 seconds)	1 hour or 3 hours test

## Service Alert code for Manual Testing:

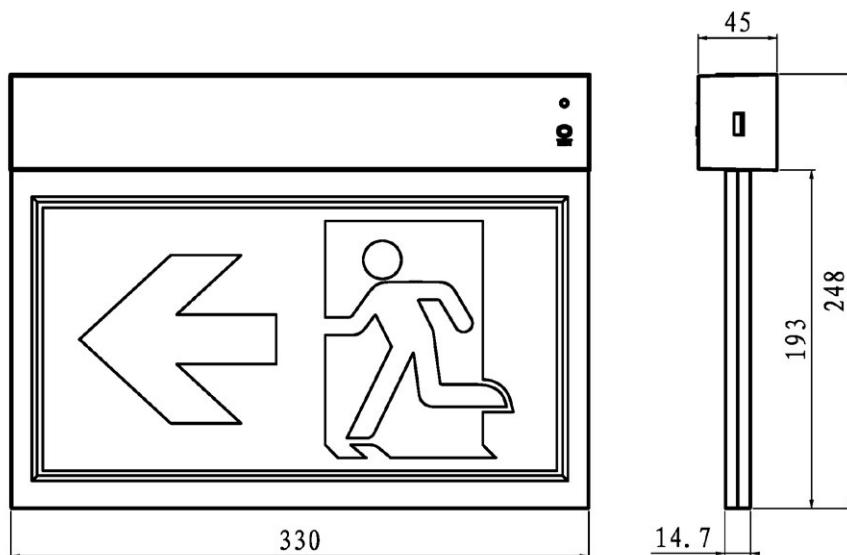
One blink ON/pause (4 seconds)	Battery is not connected
Two blink ON/pause (4 seconds)	Battery is shorted or Battery voltage drops below than acceptable value
Three blink ON/pause (4 seconds)	Charger board circuit fault
Four blink ON/pause (4 seconds)	Transfer fault
Five blink ON/pause (4 seconds)	Emergency lamp fault

## TECHNICAL SPECIFICATION

Rated Power Supply	220-240VAC 50/60Hz
Power consumption	Max. 3.5W
Charge time	24 hours
Discharge duration	1hour/3hours
Changeover voltage	144-187VAC
Test facility	Manual test and AUTO test, DALI interface available
Viewing distance	30m
Operation	Maintained and Non-maintained
Mounting	Wall mounting and Ceiling mounting
LED	SMD 2835, CCT 6000K, CRI>70
Luminance of white area on pictogram	Normal luminance 200cd/m <sup>2</sup> high luminance 500cd/m <sup>2</sup>
Safe color of Pictogram	Pantone 336C or Pantone 348C optional
Degree of protection	IP20
Insulation Class	Class II
Housing material	ABS
Ambient temperature	0C...+40C
Certification	CE, CB,TUV



## DIMENSIONS (mm)



## PICTOGRAM PACK



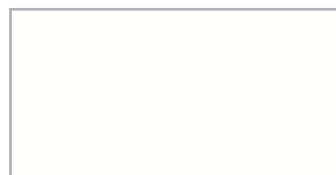
Arrow right 1pc



Without Arrow 1pc



Arrow left 1pc



Blank 1pc

## MODEL LIST

Part number	Alternative part number	Alternative part number	Discharge Duration	Power Consumption	Battery	LED
9110-1MH	ESA10/1H/MT/MH	Manual	1h	3.5W Max	Ni-Mh 3.6V 0.6Ah	SMD 2835 6000K 14PCS
9110-3MH	ESA10/3H/MT/MH	Manual	3h	3.5W Max	Ni-Mh 3.6V 0.9Ah	SMD 2835 6000K 14PCS
9110-1AH	ESA10/1H/AT/MH	Auto	1h	3.5W Max	Ni-Mh 3.6V 0.6Ah	SMD 2835 6000K 14PCS
9110-3AH	ESA10/3H/AT/MH	Auto	3h	3.5W Max	Ni-Mh 3.6V 0.9Ah	SMD 2835 6000K 14PCS
9110-3DH	ESA10/3H/DA/MH	DALI	3H	3.5W Max	Ni-Mh 3.6V 2Ah	SMD 2835 6000K 14PCS
9110-1MC	ESA10/1H/MT/CD	Manual	1H	3.5W Max	Ni-Cd	SMD 2836 6000K 14PCS
9110-1AC	ESA10/1H/AT/CD	Auto	1H	3.5W Max	Ni-Cd	SMD 2837 6000K 14PCS
9110-3MC	ESA10/3H/MT/CD	Manual	3H	3.5W Max	Ni-Cd	SMD 2838 6000K 14PCS
9110-3AC	ESA10/3H/AT/CD	Auto	3H	3.5W Max	Ni-Cd	SMD 2839 6000K 14PCS

## ORDER GUIDE

X-Y-Z ARE THE THREE ALPHABETS AFTER THE SERIES NUMBER OF THE MODEL

X		Y		Z	
Battery stand-by Duration		Type of test		Battery Type	
1	For 1 Hr	M	Manual testing	L	Lithium Iron Phosphate
3	For 3 Hrs	A	Auto Testing	C	Nickle cadmium
		D	DALI	H	Nickel metal Hydride