

LED Emergency Lighting



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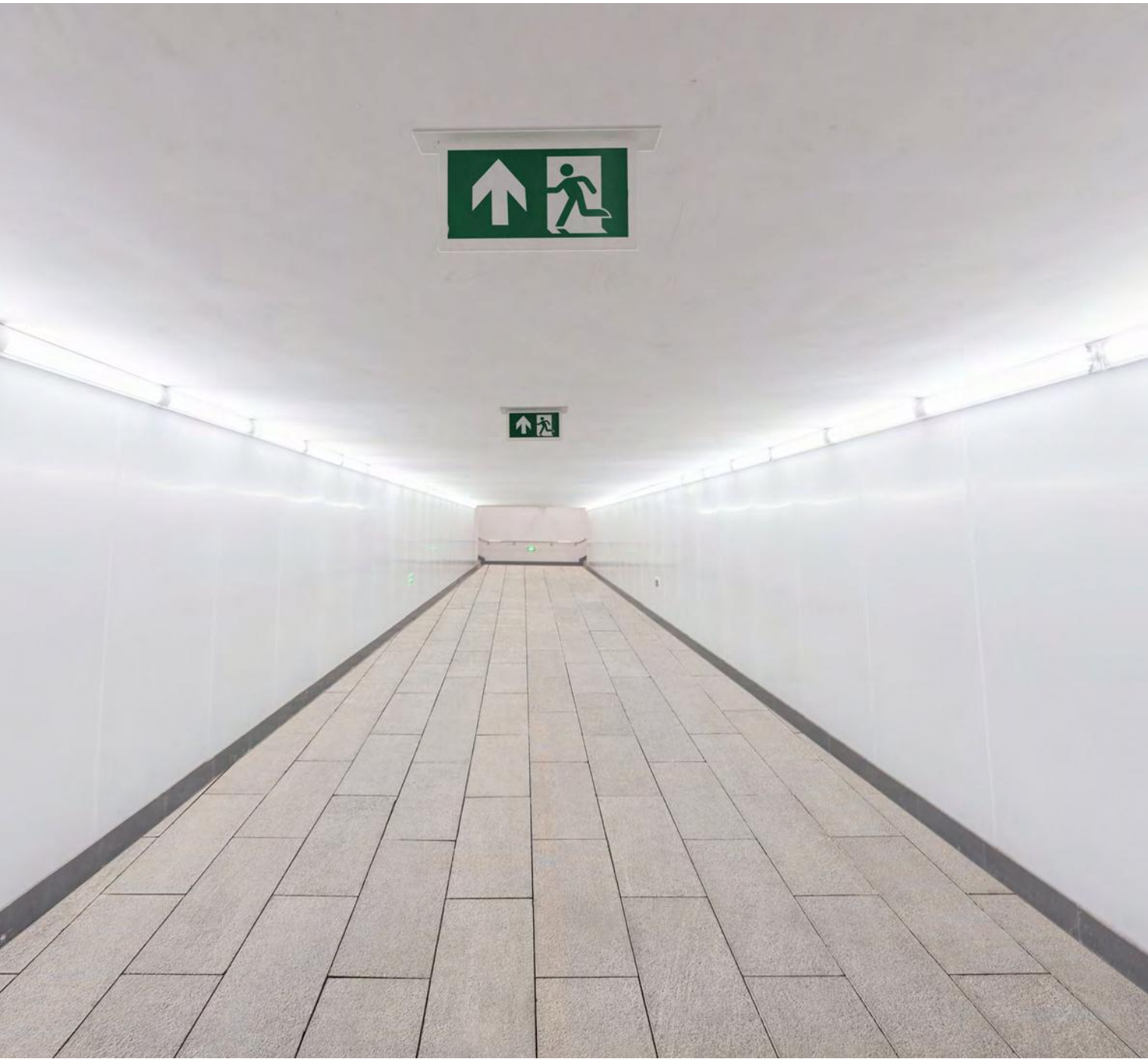
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2019-2020

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ESA6 Series



Rotatable design



Flame retardant material

Injection molded flame retardant ABS housing



Bi-color indicator

Working/fault status bi-color indicator and test button



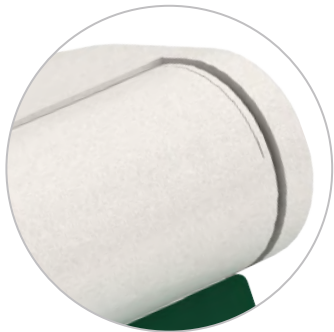
Fault self-diagnostics

Fault self- diagnostics test and alert function



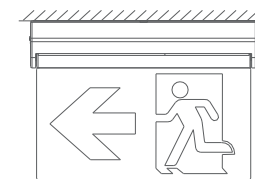
Overcharge protection

Over charge and over discharge protection

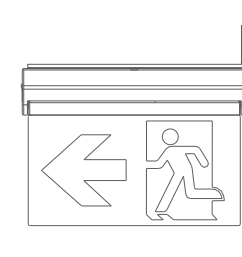




Installation



Ceiling mounting



Wall bracket mounting

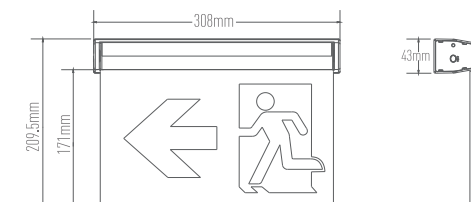


Wall mounting

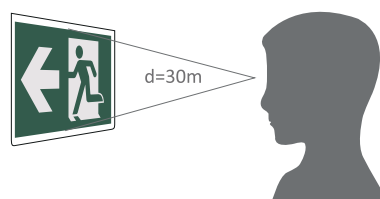
Parameter

Input voltage:	220-240VAC 50/60Hz	Test facility:	Button self-test +Auto self-test
Luminaire power consumption:	2.5-3.0W(AC)/1.2W(DC)	Operation:	Maintained,Non-Maintained
LED power consumption:	0.9W(AC&DC)	Viewing distance:	30m
LED source:	2.8W(0.2WX14)	Flux:	50lm
Charge time:	24 hours (16 hours for SAA)	Luminance of safety sign:	>15cd/m ²
Discharge duration:	1 hour, 2 hours, 3 hours	Degree of protection:	IP20

Unit:mm



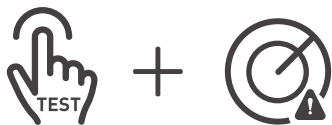
Pictogram replaceable



Ordering Guide

Model No	Duration	Battery	Test	Type	Face plate	Lamp	Viewing distance
ESA6/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained / Non-Maintained	Universal	LED	30m
ESA6/2H/AT	2 hours	3.7V,1200mAH	Auto self-test+ /				
ESA6/3H/AT	3 hours	3.7V,1200mAH	Fault self-diagnostics test				

ESA7/ESA10 Series



Intelligent test modes

Button self-test + Auto self-test



Flame retardant material

Injection molded flame retardant
ABS housing



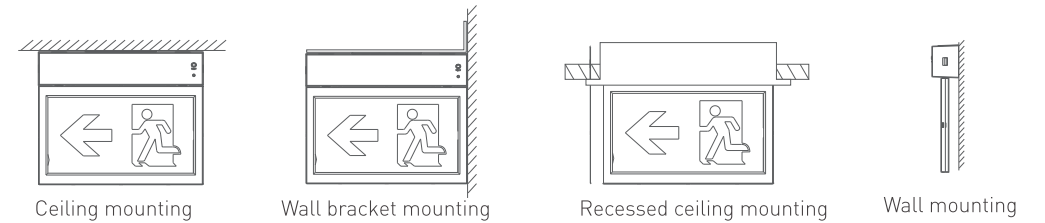
Double-face universal

Single and double face universal



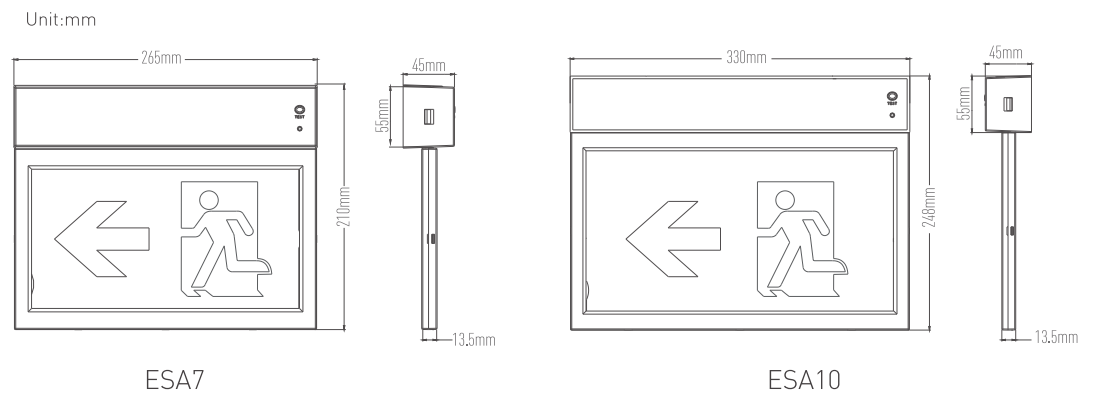


Installation



Parameter

Input voltage:	220-240VAC 50/60Hz	Test facility:	Button self-test +Auto self-test
Luminaire power consumption:	2.5-3.0W(AC)/1.2W(DC)	Operation:	Maintained,Non-Maintained,ACEG
LED power consumption:	0.9W(AC&DC)	Viewing distance:	24m(ESA7) / 30m(ESA10)
LED source:	2.4W(0.2WX12)/3.2W(0.2W*16)	Flux:	32lm(ESA7) / 50lm(ESA10)
Charge time:	24 hours (16 hours for SAA)	Luminance of safety sign:	>15cd/m²(ESA7) / >20cd/m²(ESA10)
Discharge duration:	1hour, 2hours, 3hours	Degree of protection:	IP20



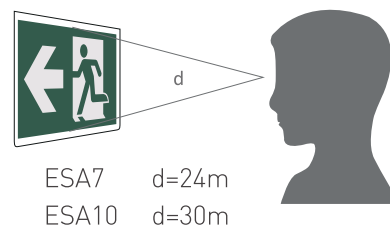
ESA7

ESA10

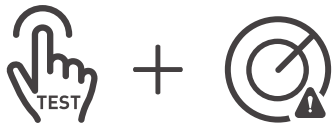
Ordering Guide

Model No	Duration	Battery	Test	Type	Face plate	Lamp	Viewing distance
ESA7/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained / Non-Maintained	Universal	LED	24m
ESA7/2H/AT	2 hours	3.7V,1200mAH	Auto self-test+ /				
ESA7/3H/AT	3 hours	3.7V,1200mAH	Fault self-diagnostics test				
ESA10/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained / Non-Maintained	Universal	LED	30m
ESA10/2H/AT	2 hours	3.7V,1200mAH	Auto self-test+ /				
ESA10/3H/AT	3 hours	3.7V,1200mAH	Fault self-diagnostics test				

Pictogram replaceable



ESA8/ESA11 Series



Intelligent test modes

Button self-test + Auto self-test



Flame retardant material

Injection molded flame retardant ABS housing



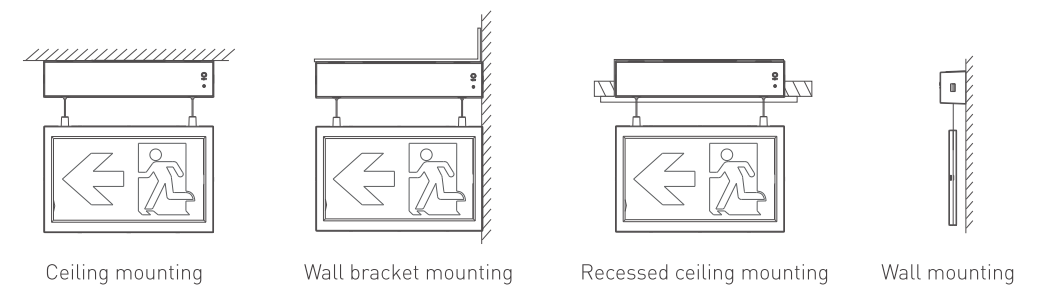
Double-face universal

Single and double face universal



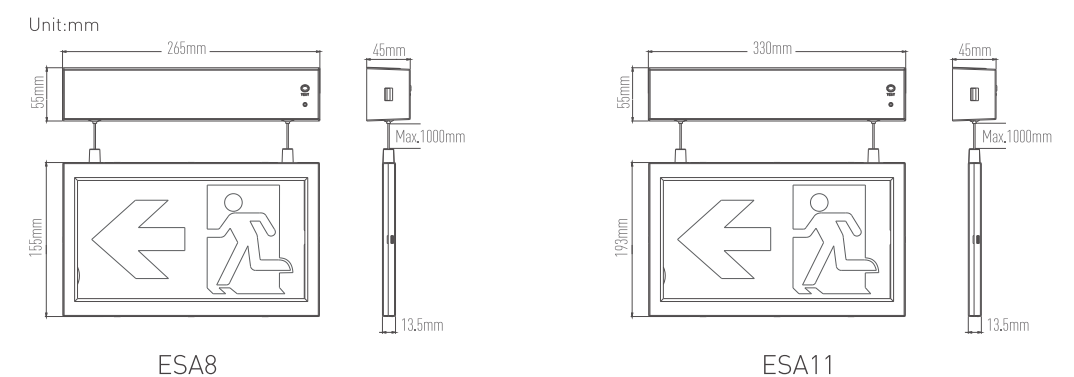


Installation

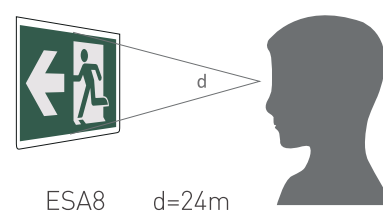


Parameter

Input voltage:	220-240VAC 50/60Hz	Test facility:	Button self-test +Auto self-test
Luminaire power consumption:	2.5-3.0W(AC)/1.2W(DC)	Operation:	Maintained,Non-Maintained,ACEG
LED power consumption:	0.9W(AC&DC)	Viewing distance:	24m(ESA8) / 30m(ESA11)
LED source:	2.4W(0.2WX12)/3.2W(0.2W*16)	Flux:	32lm(ESA8) / 50lm(ESA11)
Charge time:	24 hours (16 hours for SAA)	Luminance of safety sign:	>15cd/m²(ESA8) / >20cd/m²(ESA11)
Discharge duration:	1hour, 2hours, 3hours	Degree of protection:	IP20



Pictogram replaceable



ESA8 d=24m
ESA11 d=30m

Ordering Guide

Model No	Duration	Battery	Test	Type	Face plate	Lamp	Viewing distance
ESA8/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained / Non-Maintained	Universal	LED	24m
ESA8/2H/AT	2 hours	3.7V,1200mAH	Auto self-test+ /				
ESA8/3H/AT	3 hours	3.7V,1200mAH	Fault self-diagnostics test				
ESA11/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained / Non-Maintained	Universal	LED	30m
ESA11/2H/AT	2 hours	3.7V,1200mAH	Auto self-test+ /				
ESA11/3H/AT	3 hours	3.7V,1200mAH	Fault self-diagnostics test				

ESA9/ESA12 Series

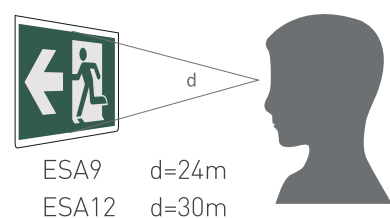


Flame retardant material
Injection molded flame retardant
ABS housing



Intelligent test modes
Button self-test + Auto self-test

Pictogram replaceable



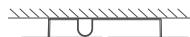
Installation



Flush mounting



Recessed ceiling mounting

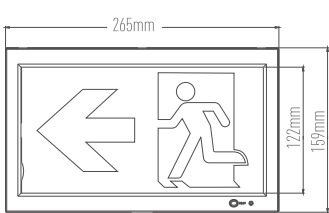


Wall mounting

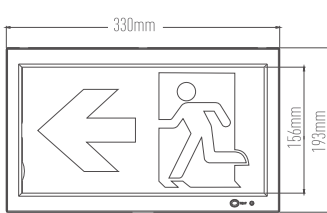
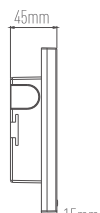
Parameter

Input voltage:	220-240VAC 50/60Hz	Test facility:	Button self-test +Auto self-test
Luminaire power consumption:	2.5-3.0W(AC)/1.2W(DC)	Operation:	Maintained,Non-Maintained,ACEG
LED power consumption:	0.9W(AC&DC)	Viewing distance:	24m(ESA9) / 30m(ESA12)
LED source:	2.4W(0.2WX12)/3.2W(0.2W*16)	Flux:	32lm(ESA9) / 50lm(ESA12)
Charge time:	24 hours (16 hours for SAA)	Luminance of safety sign:	>15cd/m²(ESA9) / >20cd/m²(ESA12)
Discharge duration:	1 hour, 2hours, 3hours	Degree of protection:	IP20

Unit:mm



ESA9



ESA12



Ordering Guide

Model No	Duration	Battery	Test	Type	Face plate	Lamp	Viewing distance
EMA9/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained / Non-Maintained	Universal	LED	24mm
EMA9/2H/AT	2 hours	3.7V,1200mAH	Auto self-test+ /				
EMA9/3H/AT	3 hours	3.7V,1200mAH	Fault self-diagnostics test				
EMA12/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained / Non-Maintained	Universal	LED	30m
EMA12/2H/AT	2 hours	3.7V,1200mAH	Auto self-test+ /				
EMA12/3H/AT	3 hours	3.7V,1200mAH	Fault self-diagnostics test				

EMD6S/EMD8S Series



Flame retardant material
Injection molded flame retardant
ABS housing



Bi-color indicator
Working/fault status bi-color
indicator and test button



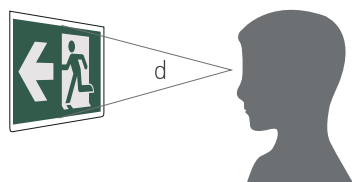
Fault self-diagnostics
Fault self- diagnostics test and
alert function



Overcharge protection
Over charge and over discharge
protection



Repalceable pictograms



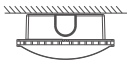
EMD6S d=24m
EMD8S d=32m



Installation



Wall mounting



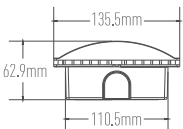
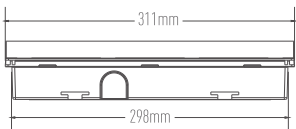
Flush mounting

Parameter

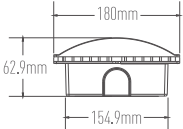
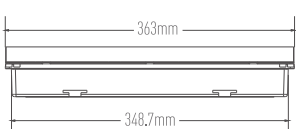
Input voltage:	220-240VAC 50/60Hz	Test facility:	Button self-test +Auto self-test
Luminaire power consumption:	5.0W(AC)/3.0W(DC)	Operation:	Maintained and Non-Maintained
LED power consumption:	2.4W(AC&DC)	Viewing distance:	24m(EMD6S) /32m (EMD8S)
LED source:	12W(0.2WX60)	Flux:	100lm
Charge time:	24 hours (16 hours for SAA)	Luminance of safety sign:	>15cd/m²
Discharge duration:	1hour, 2hours, 3hours	Degree of protection:	IP65

Unit:mm

EMD6S



EMD8S



Ordering Guide

Model No	Duration	Battery	Test	Type	Face plate	Lamp	Viewing distance
EMD6S/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained / Non-Maintained	Single	LED	24m
EMD6S/2H/AT	2 hours	3.7V,2000mAH	Auto self-test+ /				
EMD6S/3H/AT	3 hours	3.7V,2600mAH	Fault self-diagnostics test				
EMD8S/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained / Non-Maintained	Single	LED	32m
EMD8S/2H/AT	2 hours	3.7V,2000mAH	Auto self-test+ /				
EMD8S/3H/AT	3 hours	3.7V,2600mAH	Fault self-diagnostics test				

EMD6D/EMD8D Series



Flame retardant material
Injection molded flame retardant ABS housing



Bi-color indicator
Working/fault status bi-color indicator and test button



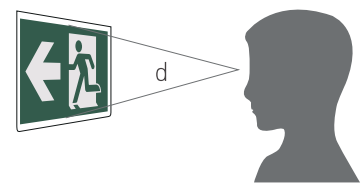
Fault self-diagnostics
Fault self- diagnostics test and alert function



Overcharge protection
Over charge and over discharge protection



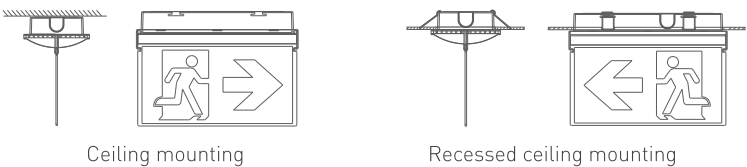
Repalceable pictograms



EMD6D d=30m
EMD8D d=36m



Installation

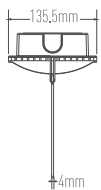
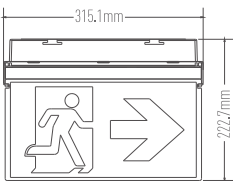


Parameter

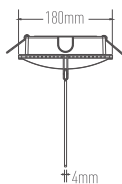
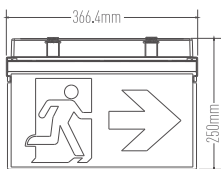
Input voltage:	220-240VAC 50/60Hz	Test facility:	Button self-test + Auto self-test
Luminaire power consumption:	5.0W(AC)/3.0W(DC)	Operation:	Maintained and Non-Maintained
LED power consumption:	2.4W(AC&DC)	Viewing distance:	30m(EMD6D) / 36m(EMD8D)
LED source:	12W(0.2WX60)	Flux:	260lm
Charge time:	24 hours (16 hours for SAA)	Luminance of safety sign:	>15cd/m ²
Discharge duration:	1 hour, 2hours, 3hours	Degree of protection:	IP65

Unit:mm

EMD6D



EMD8D



Ordering Guide

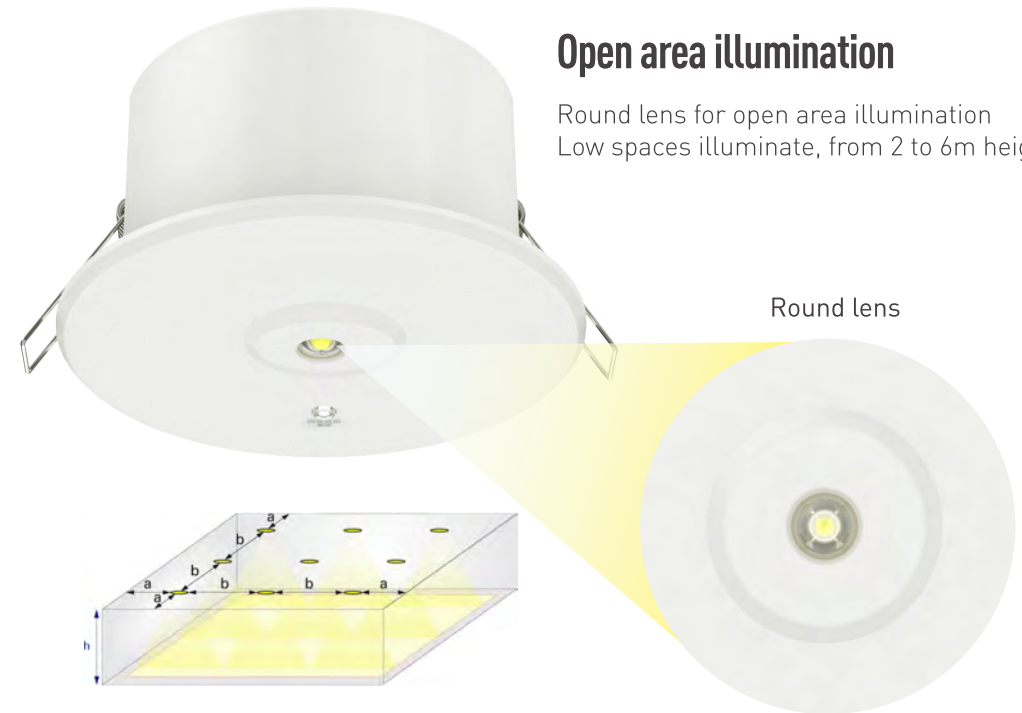
Model No	Duration	Battery	Test	Type	Face plate	Lamp	Viewing distance
EMD6D/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained / Non-Maintained	Universal	LED	30m
EMD6D/2H/AT	2 hours	3.7V,2000mAH	Auto self-test+ /				
EMD6D/3H/AT	3 hours	3.7V,2600mAH	Fault self-diagnostics test				
EMD8D/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained / Non-Maintained	Universal	LED	36m
EMD8D/2H/AT	2 hours	3.7V,2000mAH	Auto self-test+ /				
EMD8D/3H/AT	3 hours	3.7V,2600mAH	Fault self-diagnostics test				

EMD1N/EMD1W Series



Open area illumination

Round lens for open area illumination
Low spaces illuminate, from 2 to 6m height



Round lens

Escape route illumination

Oval Lens for escape route illumination
Low spaces illuminate, from 2 to 5m height



Oval Lens





Thermoplastic housing

Flame retardant ABS housing and polycarbonate lens



Bi-color indicator

Working/fault status bi-color indicator and test button



Fault self- diagnostics

Fault self- diagnostics test and alert function

Installation

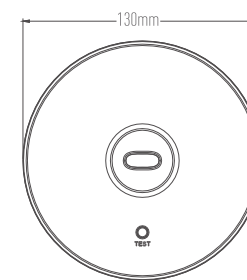


Recessed ceiling mounting

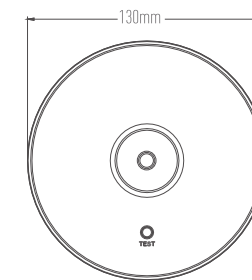
Parameter

Input voltage:	220-240VAC 50/60Hz	Discharge duration:	1 hour, 2 hours, 3 hours
Luminaire power consumption:	5.0W(AC)/3.0W(DC)	Test facility:	Button self-test +Auto self-test
LED power consumption:	2.4W(AC&DC)	Operation:	Maintained,Non-Maintained,ACEG
LED source:	12W(3WX4)	Battery:	Self contained Li-ion
Charge time:	24 hours (16 hours for SAA)	Degree of protection:	IP20

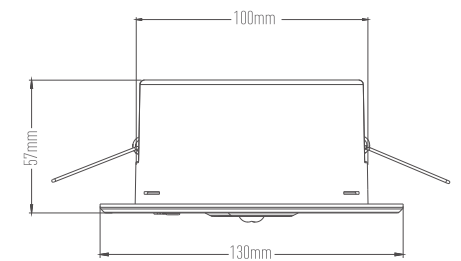
Unit:mm



EMD1N



EMD1W



Ordering Guide

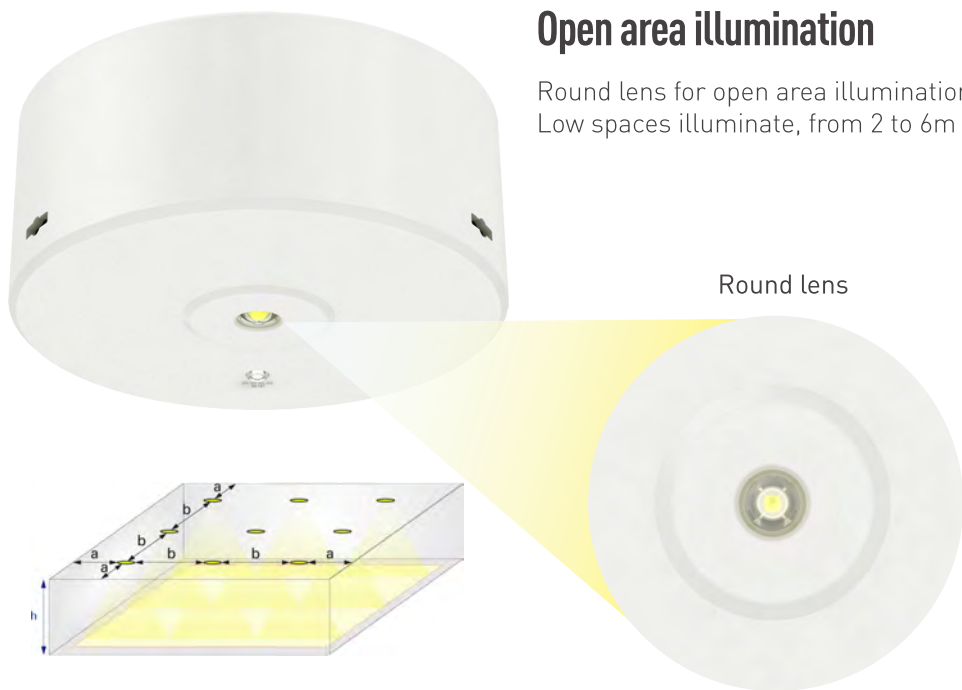
Model No	Duration	Battery	Test	Type	Flux(AC/DC)	Illumination
EMD1N/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained /		
EMD1N/2H/AT	2 hours	3.7V,2000mAH	Auto self-test+ /	Non-Maintained /	220lm	Escape route
EMD1N/3H/AT	3 hours	3.7V,2600mAH	Fault self-diagnostics test	Switchable Maintained		
EMD1W/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained /		
EMD1W/2H/AT	2 hours	3.7V,2000mAH	Auto self-test+ /	Non-Maintained /	220lm	Open area
EMD1W/3H/AT	3 hours	3.7V,2600mAH	Fault self-diagnostics test	Switchable Maintained		

EMD2N/EMD2W Series



Open area illumination

Round lens for open area illumination
Low spaces illuminate, from 2 to 6m height



Escape route illumination

Oval Lens for escape route illumination
Low spaces illuminate, from 2 to 5m height





Thermoplastic housing

Flame retardant ABS housing and polycarbonate lens



Bi-color indicator

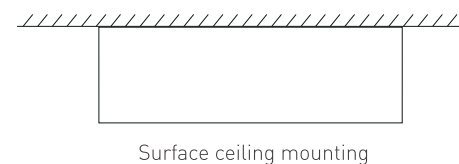
Working/fault status bi-color indicator and test button



Fault self- diagnostics

Fault self- diagnostics test and alert function

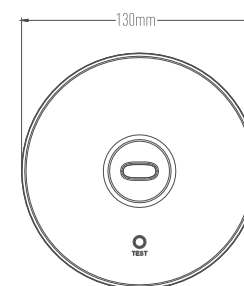
Installation



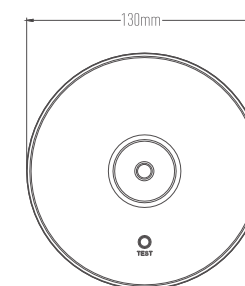
Parameter

Input voltage:	220-240VAC 50/60Hz	Discharge duration:	1 hour, 2hours, 3hours
Luminaire power consumption:	5.0W(AC)/3.0W(DC)	Test facility:	Button self-test +Auto self-test
LED power consumption:	2.4W(AC&DC)	Operation:	Maintained,Non-Maintained,ACEG
LED source:	12W(3WX4)	Battery:	Self contained Li-ion
Charge time:	24 hours (16 hours for SAA)	Degree of protection:	IP20

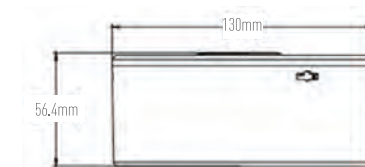
Unit:mm



EMD2N



EMD2W



Ordering Guide

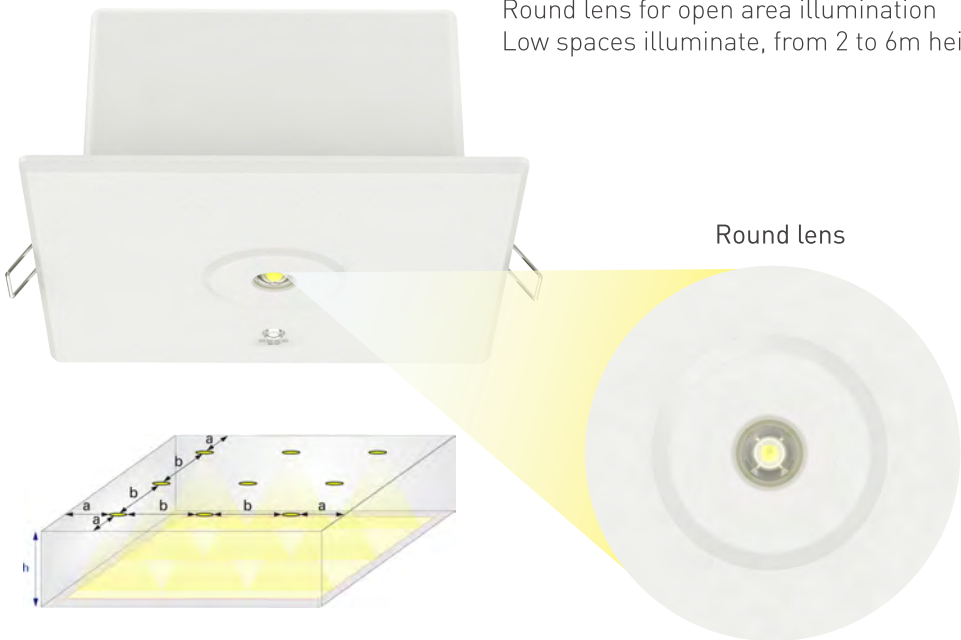
Model No	Duration	Battery	Test	Type	Flux(AC/DC)	Illumination
EMD2N/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained /		
EMD2N/2H/AT	2 hours	3.7V,2000mAH	Auto self-test+ /	Non-Maintained /	220lm	Escape route
EMD2N/3H/AT	3 hours	3.7V,2600mAH	Fault self-diagnostics test	Switchable Maintained		
EMD2W/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained /		
EMD2W/2H/AT	2 hours	3.7V,2000mAH	Auto self-test+ /	Non-Maintained /	220lm	Open area
EMD2W/3H/AT	3 hours	3.7V,2600mAH	Fault self-diagnostics test	Switchable Maintained		

EMD3N/EMD3W Series



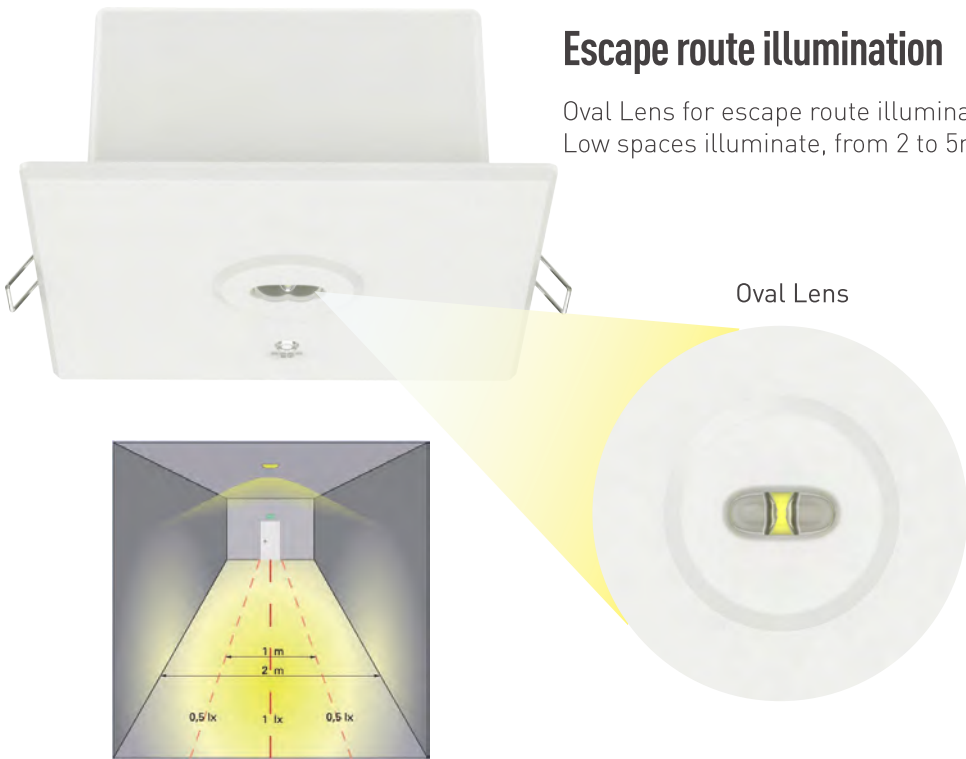
Open area illumination

Round lens for open area illumination
Low spaces illuminate, from 2 to 6m height



Escape route illumination

Oval Lens for escape route illumination
Low spaces illuminate, from 2 to 5m height





Installation

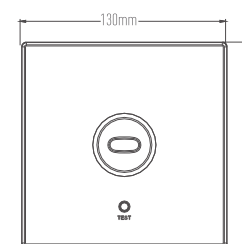


Recessed ceiling mounting

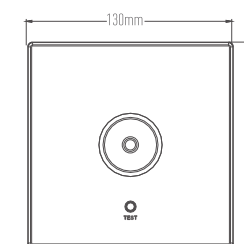
Parameter

Input voltage:	220-240VAC 50/60Hz	Discharge duration:	1 hour, 2 hours, 3 hours
Luminaire power consumption:	5.0W(AC)/3.0W(DC)	Test facility:	Button self-test +Auto self-test
LED power consumption:	2.4W(AC&DC)	Operation:	Maintained,Non-Maintained,ACEG
LED source:	12W(3WX4)	Battery:	Self contained Li-ion
Charge time:	24 hours (16 hours for SAA)	Degree of protection:	IP20

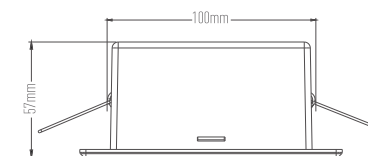
Unit:mm



EMD3N



EMD3W



Thermoplastic housing

Flame retardant ABS housing and polycarbonate lens



Bi-color indicator

Working/fault status bi-color indicator and test button



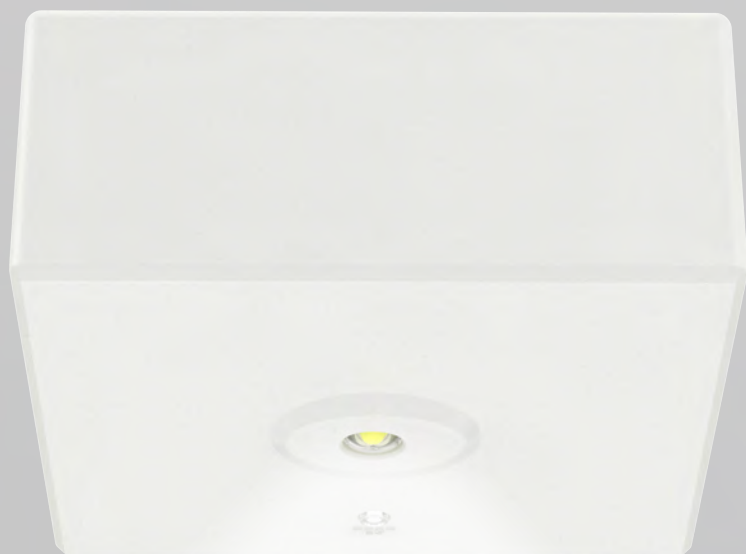
Fault self- diagnostics

Fault self- diagnostics test and alert function

Ordering Guide

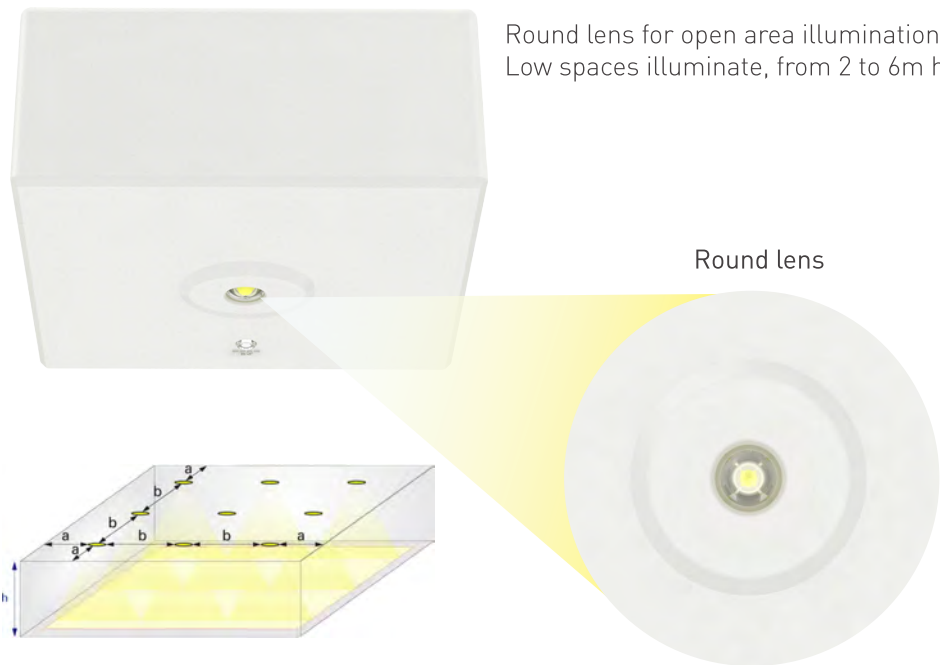
Model No	Duration	Battery	Test	Type	Flux(AC/DC)	Illumination
EMD3N/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained /		
EMD3N/2H/AT	2 hours	3.7V,2000mAH	Auto self-test+ /	Non-Maintained /	220lm	Escape route
EMD3N/3H/AT	3 hours	3.7V,2600mAH	Fault self-diagnostics test	Switchable Maintained		
EMD3W/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained /		
EMD3W/2H/AT	2 hours	3.7V,2000mAH	Auto self-test+ /	Non-Maintained /	220lm	Open area
EMD3W/3H/AT	3 hours	3.7V,2600mAH	Fault self-diagnostics test	Switchable Maintained		

EMD4N/EMD4W Series



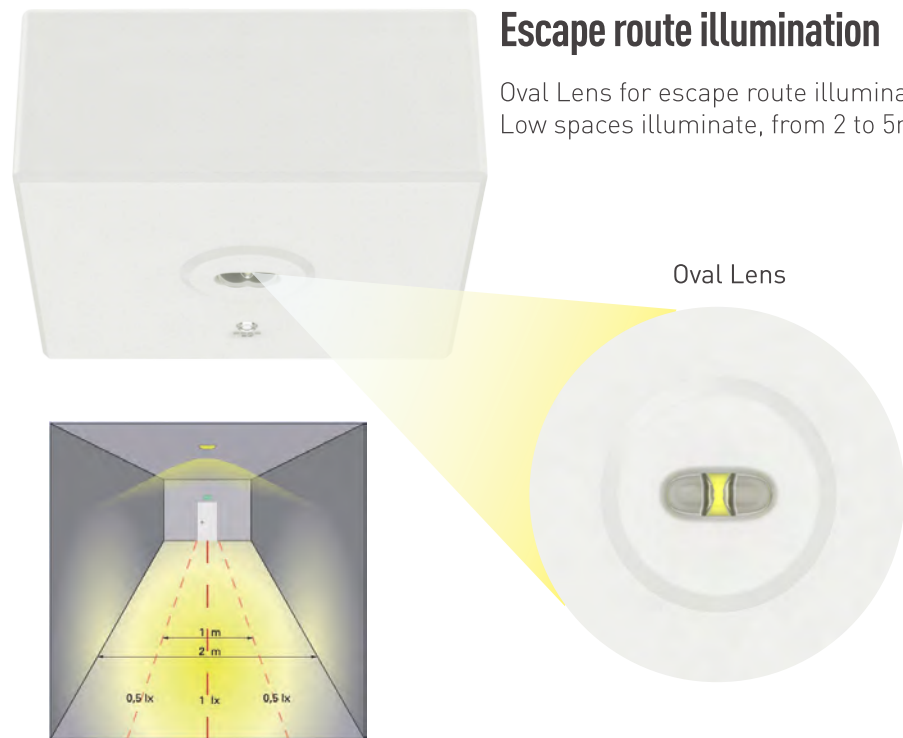
Open area illumination

Round lens for open area illumination
Low spaces illuminate, from 2 to 6m height



Escape route illumination

Oval Lens for escape route illumination
Low spaces illuminate, from 2 to 5m height





Thermoplastic housing

Flame retardant ABS housing and polycarbonate lens



Bi-color indicator

Working/fault status bi-color indicator and test button



Fault self- diagnostics

Fault self- diagnostics test and alert function



Installation

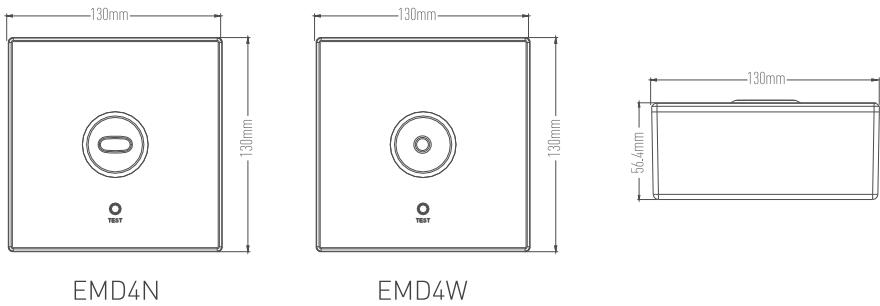


Surface ceiling mounting

Parameter

Input voltage:	220-240VAC 50/60Hz	Discharge duration:	1 hour, 2hours, 3hours
Luminaire power consumption:	5.0W(AC)/3.0W(DC)	Test facility:	Button self-test +Auto self-test
LED power consumption:	2.4W(AC&DC)	Operation:	Maintained,Non-Maintained,ACEG
LED source:	12W(3WX4)	Battery:	Self contained Li-ion
Charge time:	24 hours (16 hours for SAA)	Degree of protection:	IP20

Unit:mm



Ordering Guide

Model No	Duration	Battery	Test	Type	Flux(AC/DC)	Illumination
EMD4N/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained /		
EMD4N/2H/AT	2 hours	3.7V,2000mAH	Auto self-test+ /	Non-Maintained /	220lm	Escape route
EMD4N/3H/AT	3 hours	3.7V,2600mAH	Fault self-diagnostics test	Switchable Maintained		
EMD4W/1H/AT	1 hour	3.7V,1200mAH	Button self-test + /	Maintained /		
EMD4W/2H/AT	2 hours	3.7V,2000mAH	Auto self-test+ /	Non-Maintained /	220lm	Open area
EMD4W/3H/AT	3 hours	3.7V,2600mAH	Fault self-diagnostics test	Switchable Maintained		

EMD5 Series

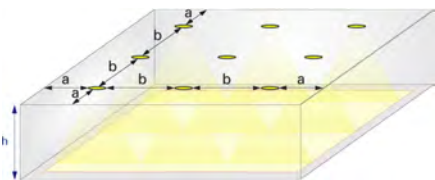


EMD5



Open area illumination

For open area illumination
Low spaces illuminate, from 2 to 6m height



LED emergency driver





EMD5A

Emergency light source of linear light or Tri-proof light



EMD5B

Emergency light source of tube light



Thermoplastic housing

Injection molded thermoplastic ABS housing



Li-ion battery

Self contained Li-ion battery





EMD5C

Emergency light source of panel light or the ceiling



Thermoplastic housing

Flame retardant ABS housing and polycarbonate lens



Bi-color indicator

Working/fault status bi-color indicator and test button



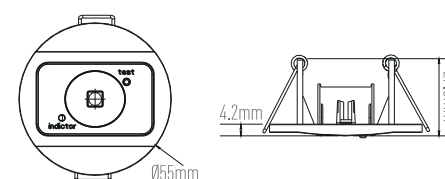
Fault self- diagnostics

Fault self- diagnostics test and alert function

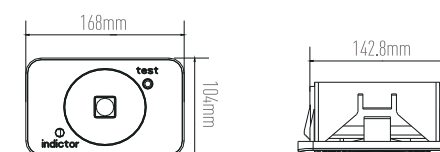
Parameter

Input voltage:	220-240VAC 50/60Hz	Discharge duration:	1 hour, 2 hours, 3 hours
Luminaire power consumption:	5.0W(AC)/3.0W(DC)	Test facility:	Button self-test +Auto self-test
LED power consumption:	2.4W(AC&DC)	Operation:	Maintained,Non-Maintained,Switchable
LED source:	12W(3WX4)	Battery:	Self contained Li-ion
Charge time:	24 hours (16 hours for SAA)	Degree of protection:	IP20

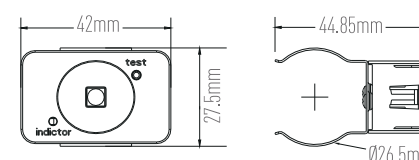
Unit:mm



EMD5



EMD5A



EMD5B

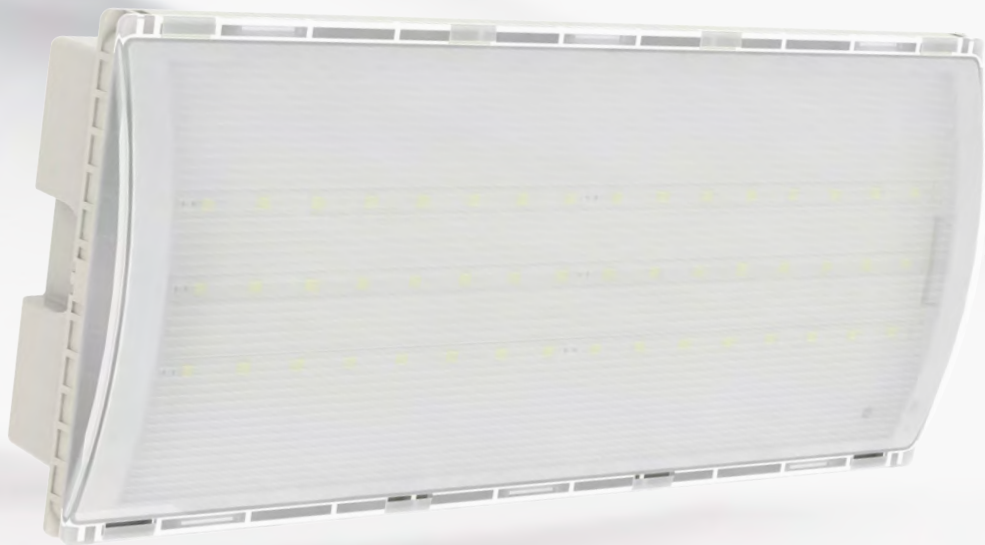


EMD5C

Ordering Guide

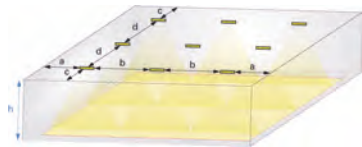
Model No	Duration	Battery	Test	Type	Flux(AC/DC)	Ilumination
EMD5/1H/AT EMD5A/1H/AT EMD5B/1H/AT EMD5C/1H/AT	1 hour	3.7V,1200mAH	Button self-test + / Auto self-test+ / Fault self-diagnostics test	Maintained / Non-Maintained / Switchable Maintained	260lm	Escape route /Open area
EMD5/2H/AT EMD5A/2H/AT EMD5B/2H/AT EMD5C/2H/AT	2 hours	3.7V,2000mAH	Button self-test + / Auto self-test+ / Fault self-diagnostics test	Maintained / Non-Maintained / Switchable Maintained	260lm	Escape route /Open area
EMD5/3H/AT EMD5A/3H/AT EMD5B/3H/AT EMD5C/3H/AT	3 hours	3.7V,2600mAH	Button self-test + / Auto self-test+ / Fault self-diagnostics test	Maintained / Non-Maintained / Switchable Maintained	260lm	Escape route /Open area

EMD6/EMD8 Series



Illumination of open area

Illumination of open area >60m²
(anti-panic illumination)



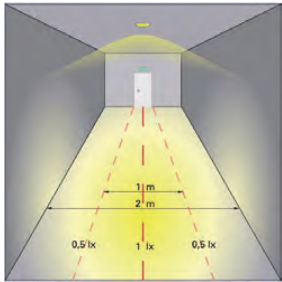
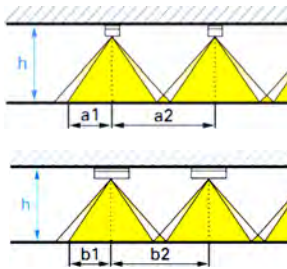
EMD6

Heighth(m)	a(m)	b(m)	c(m)	d(m)
3.0	2.5	7.50	5.42	10.60
4.0	1.8	6.97	6.86	13.52
5.0	3.0	8.50	1.86	10.26

EMD8

Heighth(m)	a(m)	b(m)	c(m)	d(m)
3.0	2.70	7.76	5.66	10.92
4.0	2.12	7.24	7.12	13.88
5.0	3.45	8.86	2.02	10.40

Escape route illumination



EMD6

Heighth(m)	a1(m)	a2(m)	b1(m)	b2(m)
2.0	3.20	6.90	3.70	9.02
2.5	3.95	8.30	4.22	9.56
3.0	4.50	9.70	4.31	9.62
3.5	2.70	8.20	4.50	11.86
4.0	1.00	8.00	4.45	12.17

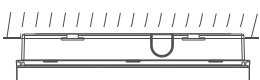
EMD8

Heighth(m)	a1(m)	a2(m)	b1(m)	b2(m)
2.0	3.40	7.12	3.90	9.28
2.5	4.20	8.60	4.45	9.82
3.0	4.78	10.0	4.64	9.97
3.5	3.04	8.55	4.72	11.98
4.0	1.12	8.30	4.56	12.40





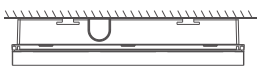
Installation



Flush mounting



Embedded mounting



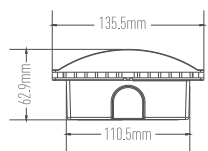
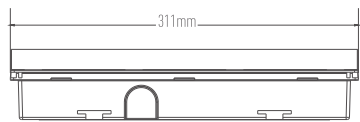
Ceiling mounting

Parameter

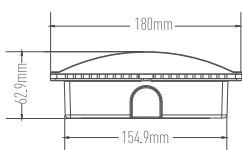
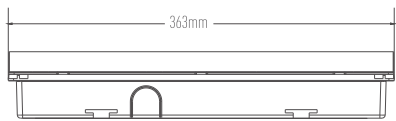
Input voltage:	220-240VAC 50/60Hz	Discharge duration:	1hour, 2hours, 3hours
Luminaire power consumption:	5.0W(AC)/3.0W(DC)	Test facility:	Button self-test +Auto self-test
LED power consumption:	2.4W(AC&DC)	Operation:	Maintained,Non-Maintained,Switchable
LED source:	12W(0.2WX60)	Battery:	Self contained Li-ion
Charge time:	24 hours (16 hours for SAA)	Degree of protection:	IP65

Unit:mm

EMD6



EMD8



Ordering Guide

Model No	Duration	Battery	Test	Type	Flux(AC/DC)	Illumination
EMD6/1H/AT	1 hour	3.7V,1200mAh	Button self-test + /	Maintained / Non-Maintained	260lm	Escape route /Open area
EMD6/2H/AT	2 hours	3.7V,2000mAh	Auto self-test+ /			
EMD6/3H/AT	3 hours	3.7V,2600mAh	Fault self-diagnostics test			
EMD8/1H/AT	1 hour	3.7V,1200mAh	Button self-test + /	Maintained / Non-Maintained	260lm	Escape route /Open area
EMD8/2H/AT	2 hours	3.7V,2000mAh	Auto self-test+ /			
EMD8/3H/AT	3 hours	3.7V,2600mAh	Fault self-diagnostics test			



Flame retardant material
Injection molded flame retardant
ABS housing



Bi-color indicator
Working/fault status bi-color
indicator and test button



Fault self-diagnostics
Fault self- diagnostics test and
alert function



Overcharge protection
Over charge and over discharge
protection

