



NORMAGRUP
POCKET
SOLUTIONS

Central Battery System

C24

NORMALUX
by Normagrup



Central Battery System

The family of C24 Central Battery Systems enables remote supply of 24 Vdc emergency luminaries.



Autotest System

(functional test + autonomy test)

Compatible with MODBUS

C24

Manufactured in accordance
with standard EN 50171



C24-100M



C24-300M



Covers one fire
sector



C24I-300 | Sistema Addressable



Covers one fire
sector



Compatible
with Normalink

As an innovation, Normalux launches a second generation of Central Battery Systems named C24I Addressable. These new centrals are able to control each fitting connected to them individually, and manage several options (turning on and off, dimming, test execution, etc), as well as monitoring the status of each luminaire.

While the basic version offers two references depending on the output power (C24-100 at 100 W and C24-300 at 300 W), in this new version there is just one reference of 300 W (C24I-300).

C24I addressable has 8 outputs, against C24 standard models that have only 4. Intelligent control that helps to identify

any possible problems and enables the control of:

- The Central unit itself and each of the 4 outputs of the standard version.
- The central unit itself, the outputs and each luminaire individually in the C24I addressable versions.

All the fittings can be remotely controlled from a PC or a master Central (MODBUS).

C24I-300 fitting is compatible with Normalink. No external elements are needed.

**Ranges compatible
with 24 Vdc**

Via Led recessed
Via Led surface
Via Led wall
Dunna
Hermetic
Extraplana
Volutta
Excellence
Europrisma
ExtraLine
Signal
Estela
Senda
Sirio
Passo
MIB, BR, BRU
Light paths

Central Battery System



Models

C24-100M

C24-300M

Batteries	2 x 12 V · 7 Ah			2 x 12 V · 9 Ah			2 x 12 V · 12 Ah			2 x 12 V · 18 Ah			2 x 12 V · 24 Ah		
Autonomy	1 h	3 h	8 h	1 h	3 h	8 h	1 h	3 h	8 h	1 h	3 h	8 h	1 h	3 h	8 h
Total power output (W)	88 W	36 W	14 W	115 W	48 W	19 W	154 W	66 W	27 W	234 W	105 W	42 W	314 W	136 W	58 W
Maximum current (A)	3.86	1.70	0.76	4.97	2.19	0.97	6.62	2.92	1.30	9.94	4.39	1.95	13.25	5.85	2.60
Phase monitor input				✓						✓					
Output control			4									4			
Potential free contacts			✓							✓					
Function indicator			✓							✓					
Supply indicator for battery			✓							✓					
Failure			✓							✓					
Network supply indicator			✓							✓					
Battery supply indicator			✓							✓					
Failure alarm indicator			✓							✓					
Full discharge indicator			✓							✓					
Active output indicator			✓							✓					
Communication via bus				Modbus-RTU						Modbus-RTU					

Central Battery System

C24

Technical features:

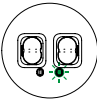
- Voltage: 230 V AC +/- 10%
- Wire cross section: 2.5 mm²
- Output voltage: 24 V DC +/- 20%
- Output wire section: 2.5 mm²
- Ambient temperature: -5°C to 25°C
- Class: I
- IP: IP30
- Outputs: 4 (C24-100 y C24-300) / 8 (C24I-300)
- Maximum current: 3.5 A per output
- Dimensions:
 - C24-100: 340 x 330 x 90 mm
 - C24-300: 500 x 400 x 200 mm
 - C24I-300: 587 x 460 x 187 mm

WIRE SECTION	MAXIMUM INTENSITY	DISTANCE*
1.5 mm²	1 A	147 m
	2 A	74 m
	3 A	49 m
2.5 mm²	1 A	245 m
	2 A	123 m
	3 A	82 m

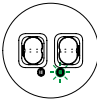
* Length for double wire and charge at end of line.

 **BATTERIES NOT INCLUDED**

Status LED control



Status LED
on: OK



Status LED
blinking: FAILURE

Option to decide the status of the charging LED:

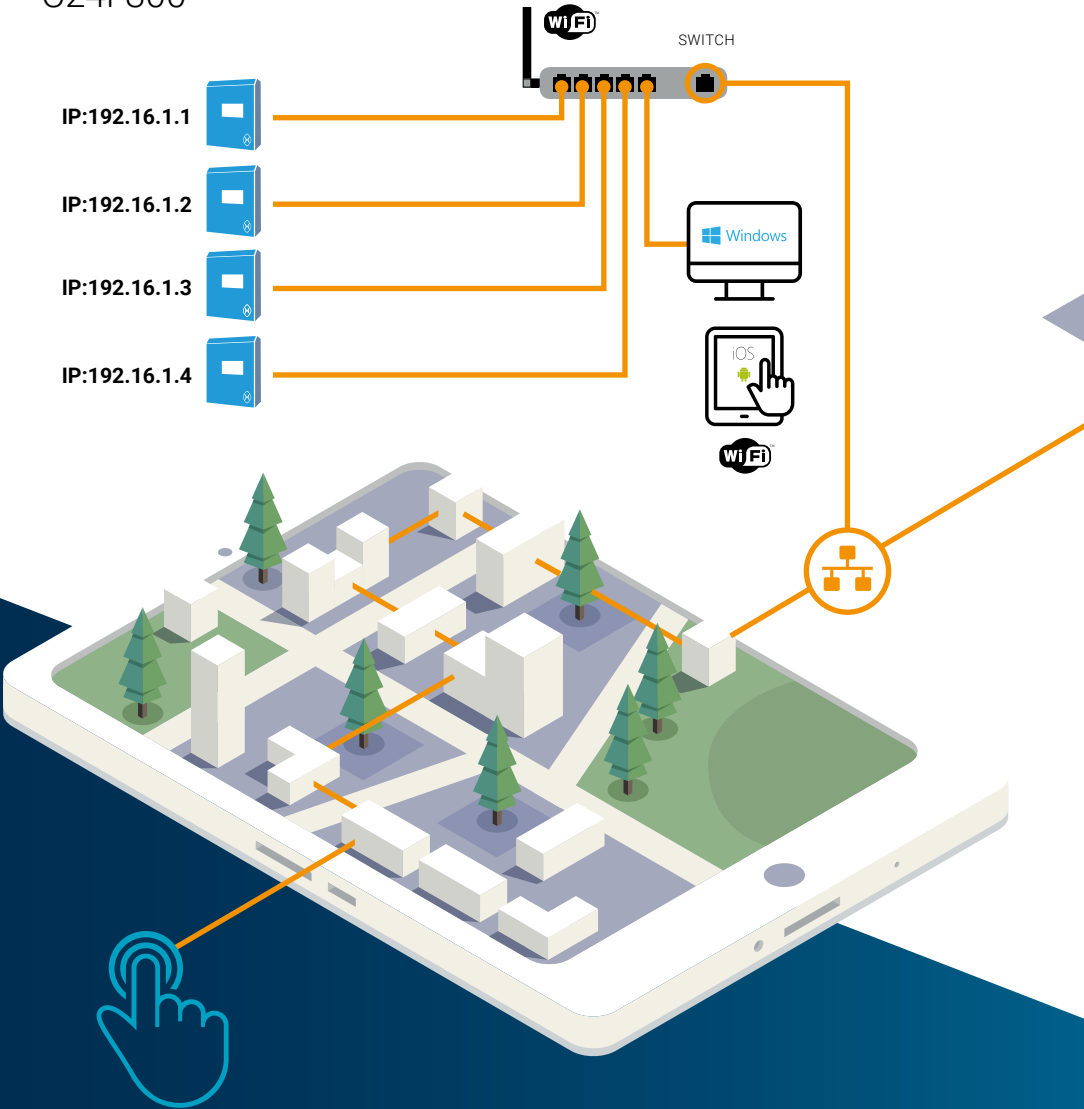
- ON: Line OK (C24) / fitting OK C-24Ad
- BLINKING: Line failure (C24) / Fitting failure (C24I).
- OFF:

C24I-300

2 x 12 V · 7 Ah			2 x 12 V · 9 Ah			2 x 12 V · 12 Ah			2 x 12 V · 18 Ah			2 x 12 V · 24 Ah		
1 h	3 h	8 h	1 h	3 h	8 h	1 h	3 h	8 h	1 h	3 h	8 h	1 h	3 h	8 h
88 W	36 W	14 W	115 W	48 W	19 W	154 W	66 W	27 W	234 W	105 W	42 W	314 W	136 W	58 W
3.86	1.70	0.76	4.97	2.19	0.97	6.62	2.92	1.30	9.94	4.39	1.95	13.25	5.85	2.60
						✓								
						8								
						✓								
						✓								
						✓								
						✓								
						✓								
						✓								
						✓								
						✓								
						✓								
						✓								
						✓								
						Modbus-RTU and Normalink								

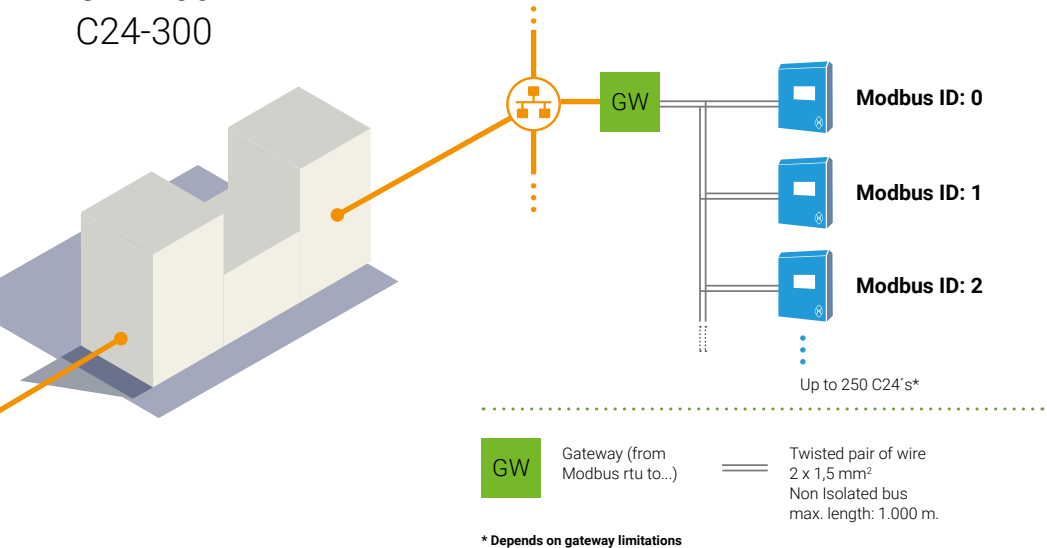
Control options

Through Normalink
C24i-300



Using Modbus

C24-100
C24-300



HOME



CONFIGURATION



CONTROL



Via Led

recessed

Emergency lighting

For ceiling recess

EN 60598-2-22



IP20 - IK04

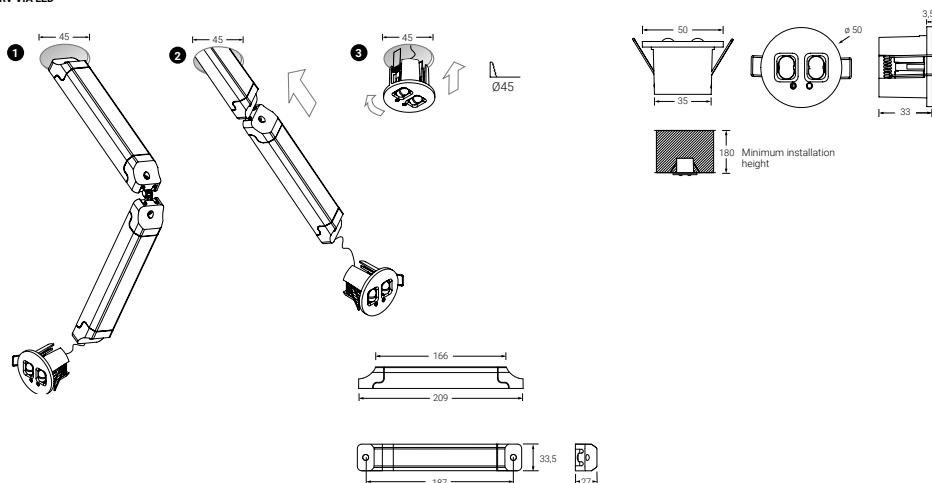
VIA LED is a new concept in emergency lighting. Its small size, its discrete presence and its versatility make it essential in modern installations that require design, safety and efficiency.

With VIA LED, the light can be focused longitudinally along halls or corridors (VV versions), or projected in its round shape in open areas (VS versions).

- Zamack housing.
- Light source: LED.
- VV versions for corridors and VS for open spaces.
- Charging LED.
- Test button.
- Power: 24 Vdc



DRV VIA LED

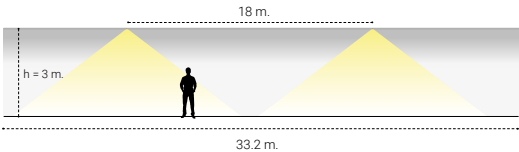
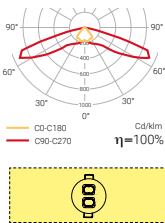


Via Led recessed



MODELS

VV | 200 lm | Corridors



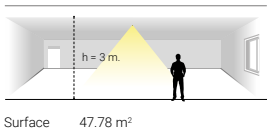
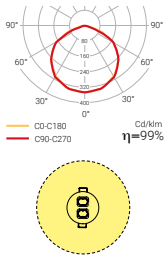
Corridor lenght 2 m.
Target 1 lux

! Save in the number of units needed

INTERDISTANCE			
POSITION		HEIGHT (m)	
		3	4
⊙ → ⊙		6.4	7.6
⊙ → ⊙		18	21.1
⊙ → ⊙		7.6	8
⊙ → ⊙		2.8	3.1

Please ask for other heights. Take into account the orientation of the luminaire in the VV model.

VS | 190 lm | Areas



! The data shown are referred to maintained models

HEIGHT (m)	AREA (m²)
2.5	43
3.0	47.78
3.5	52.81
4.0	55.42
5.0	46.56

INTERDISTANCE			
POSITION	HEIGHT (m)		
	3	4	5
⊙ → ⊙	10	10.9	11.4
⊙ → █	3.9	4	3.9

In the VS model, the orientation of the light does not affect the distribution of light.

IP
20

		FINISH	POWER	LUMENS	CONSUMPTION	CURRENT
C24	VS-S2L24	White	24 Vcc	190 lm	1.8 W	0.075 A
	VV-S2L24	White	24 Vcc	200 lm	1.8 W	0.075 A
C24i	VSI-S2L24	White	24 Vcc	190 lm	2 W	0.083 A
	VVI-S2L24	White	24 Vcc	200 lm	2 W	0.083 A

Via Led

surface

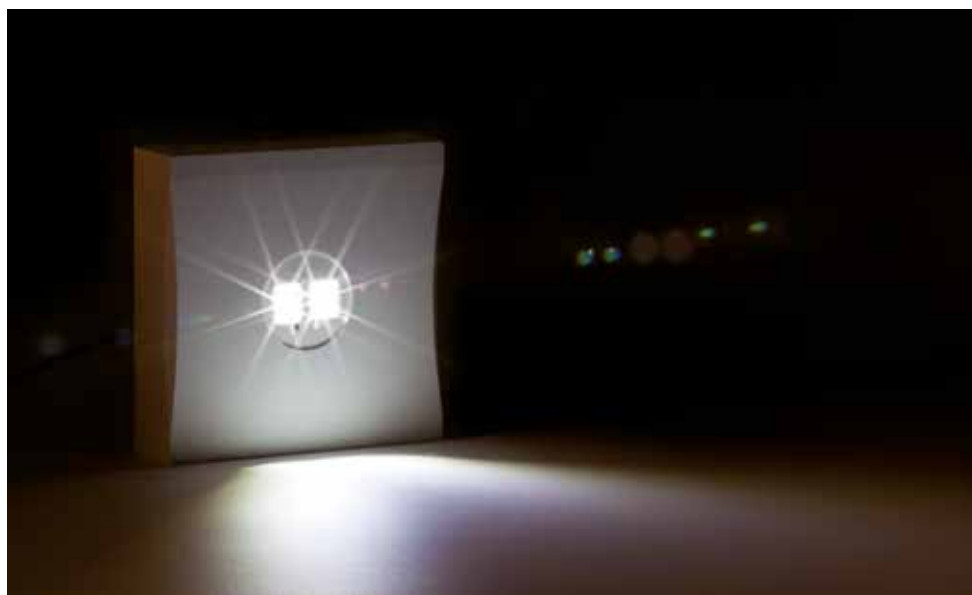
Emergency lighting

For ceiling mounting

EN 60598-2-22



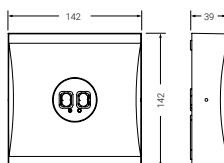
IP20 - IK04



Surface ceiling mounted VIA LED. Like the recessed version it has two different versions with different light distribution, enabling it to cover large corridors (VMV Version) or large spaces (VMS version).

With a compact, elegant and minimalist design, the SURFACE VIA LED is the definitive emergency luminaire.

- VMV versions for corridors and VMS for open spaces.
- Polycarbonate housing.
- Light source: LED.
- Charging LED.
- Test button.
- Power: 24 Vdc

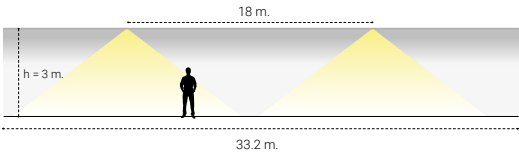
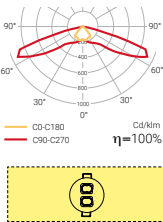


Via Led surface



MODELS

VMV | 200 lm | Corridors



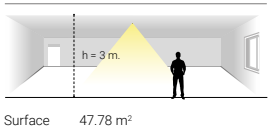
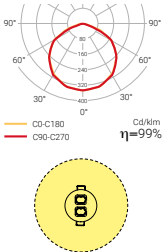
Corridor lenght 2 m.
Target 1 lux

INTERDISTANCE			
POSITION	HEIGHT (m)		
	3	4	
⊙ → ⊙	6.4	7.6	
⊙ → ⊙	18	21.1	
⊙ → ⊙	7.6	8	
⊙ → ⊙	2.8	3.1	

! Save in the number of units needed

Please ask for other heights. Consider the orientation of the luminaire in the VV model.

VMS | 190 lm | Areas



HEIGHT (m)	AREA (m²)
2.5	43
3.0	47.78
3.5	52.81
4.0	55.42
5.0	66.56

INTERDISTANCE			
POSITION	HEIGHT (m)		
	3	4	5
⊙ → ⊙	10	10.9	11.4
⊙ → ⊙	3.9	4	3.9

In the VS model, the orientation of the light does not affect the distribution of light.

! The data shown are referred to maintained models

IP 20

		FINISH	POWER	LUMENS	CONSUMPTION	CURRENT
C24	VMS-S2L24	White	24 Vcc	190 lm	1.8 W	0.075 A
	VMV-S2L24	White	24 Vcc	200 lm	1.8 W	0.075 A
C24i	VMSI-S2L24	White	24 Vcc	190 lm	2 W	0.083 A
	VMVI-S2L24	White	24 Vcc	200 lm	2 W	0.083 A

Via Led wall

Emergency lighting

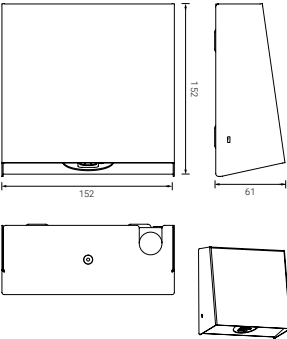
For surface wall mounting

EN 60598-2-22
IP20 - IK04



New version for surface wall mounting.
True to its principles: elegant, simple
and discreet design and a high luminic
efficiency.

- VPV versions for corridors and VPS for open spaces.
- Housing made of painted steel.
- Light source: LED.
- Charging LED.
- Test button.
- Power: 24 Vdc
- White finish (grey or black possible as a bespoke product).



IP
20

C24i

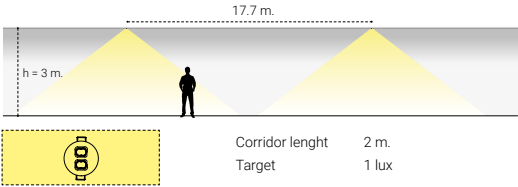
	FINISH	POWER	LUMENS	CONSUMPTION	CURRENT
VPSt-S2L24	White	24 Vcc	190 lm	2 W	0.083 A
VPVt-S2L24	White	24 Vcc	200 lm	2 W	0.083 A

Via Led wall



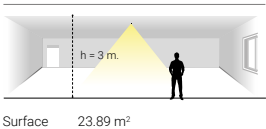
MODELS

VPV | 200 lm | Corridors



POSITION	INTERDISTANCE					
	HEIGHT (m)					
	1,5	2	2,5	3	3,5	4
Ⓢ → Ⓢ	10,6	13,3	15,6	17,7	19,5	20,8
Ⓢ → Ⓢ	4,2	4,9	5,5	6,2	6,8	7,4

VPS | 190 lm | Areas



HEIGHT (m)	AREA (m²)
1.5	14.13
2.0	18.15
2.5	21.50
3.0	23.89
3.5	24.25
4.0	25.34

POSITION	INTERDISTANCE					
	HEIGHT (m)					
	1.5	2	2.5	3	3.5	4
Ⓢ → Ⓢ	6.9	8.1	9.1	9.9	10.4	10.8
Ⓢ → Ⓢ	6.9	8.1	9.1	9.9	10.4	10.8

Dunna

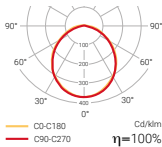
Emergency lighting

For ceiling or wall mounting

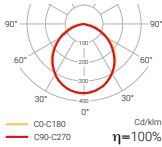
EN 60598-2-22
IP44 - IK04



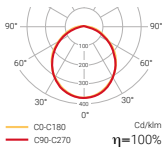
Non-maintained multiled



Maintained led

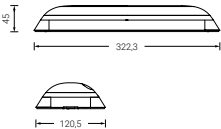


Maintained multiled



DUNNA product range portrays experience obtained from manufacturing emergency lighting for almost half a century; it is one of our oldest and most successful luminaires but is in constant evolution. It includes the latest LED technology and an avant-garde redesign to adapt it to modern times.

- For ceiling or wall mounting.
- For ceiling mounting, using a recession box.
- IP65 using a waterproof housing as an accessory.
- Housing made from self-extinguishing ABS. Polycarbonate diffuser.
- Light source: LED.
- Charging LED.
- Test button.
- Power: 24 Vdc



IP
44

		FINISH	POWER	LUMENS	CONSUMPTION	CURRENT
C24	D-S32L24	White	24 Vcc	330 lm	3.48 W	0.145 A
C24i	DI-S32L24	White	24 Vcc	330 lm	7 W	0.270 A

Hermetic

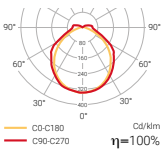
Emergency lighting

For ceiling or wall mounting

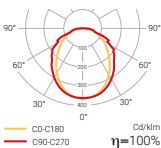
EN 60598-2-22
IP65 - IK08



Maintained led

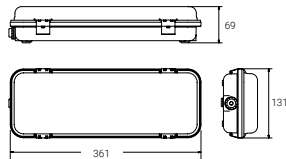


Maintained / Non-maintained multiled



The HERMETIC range is designed to guarantee operation in the most demanding buildings. Its IP65 combined with a wide range of versions makes it the perfect choice for large industrial areas, tunnels or car parks.

- For ceiling or wall mounting.
- Housing and diffuser made of polycarbonate.
- Light source: LED.
- Charging LED.
- Test button.
- Power: 24 Vdc



IP
65

		FINISH	POWER	LUMENS	CONSUMPTION	CURRENT
C24	DE-S32L24	White	24 Vcc	300 lm	3.50 W	0.146 A
C24i	DEi-S32L24	White	24 Vcc	300 lm	7 W	0.270 A

Extraplana

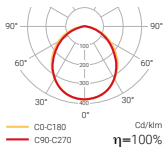
Emergency lighting

For ceiling or wall mounting

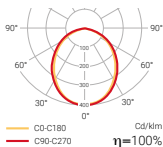
EN 60598-2-22
IP42 - IK04



Maintained led

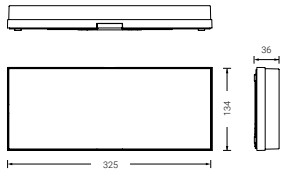


Maintained / Non-maintained multiled



The EXTRAPLANA range can tackle any project thanks to its several different models and the options provided by the accessories offered.

- Fast connection system using the pre-installation plate.
- Can be installed in the ceiling or in the wall using different accesories.
- IP65 using a waterproof housing as an accessory.
- IP42
- There is a frame for installing the luminarie embedded in the ceiling with a waterproof box.
- Housing made from self-extinguishing ABS. Polycarbonate diffuser.
- Light source: LED.
- Charging LED.
- Test button.
- Charging time 24 hours.
- Power: 24 Vdc



Plug-in base

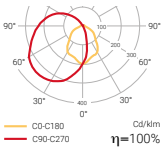
IP
42

		FINISH	POWER	LUMENS	CONSUMPTION	CURRENT
C24	F-S32L24	White	24 Vcc	300 lm	3.5 W	0.145 A
C24i	FI-S32L24	White	24 Vcc	180 lm	7 W	0.27 A

Volutta

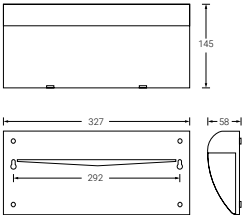
Emergency lighting
For wall mounting

EN 60598-2-22
IP22 - IK04



VOLUTTA is the result of mixing equal parts of versatility and style.

- Housing made from self-extinguishing ABS.
- Polystyrene diffuser.
- Installation: Wall mounted.
- Light source: LED.
- IP 22. IK 04.
- Can be mounted on flammable surfaces.
- Charging LED.
- Test button.
- Power: 24 Vdc.



IP
22

C24

V-S3L24

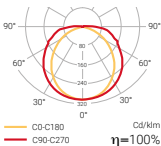
FINISH	POWER	LUMENS	CONSUMPTION	CURRENT
White	24 Vcc	250 lm	6.0 W	0.250 A

Excellence

Emergency lighting

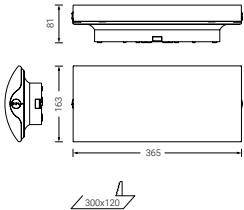
For mounting/recessed installation
in ceiling/wall

EN 60598-2-22
IP42 - IK04



The EXCELLENCE emergency fittings are our bet on design and functionality. They are luminaries that are fully made from polycarbonate with stylised shapes ideal for mounting on the wall/ceiling or recessed installation.

- Housing, diffuser and base: polycarbonate.
- IP42
- Light source: LED.
- Batteries: NiCd (high temperature).
- Charging LED.
- Test button.
- Power: 230 Vac • 50/60 Hz.



IP
42

		FINISH	POWER	LUMENS	CONSUMPTION	CURRENT
C24	E-S24L24	White	24 Vcc	306 lm	2.64 W	0.11 A
C24i	EI-S25L24	White	24 Vcc	240 lm	3 W	0.125 A

Europrisma

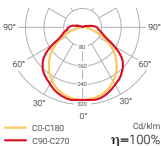
Emergency lighting

For ceiling or wall mounting

EN 60598-2-22

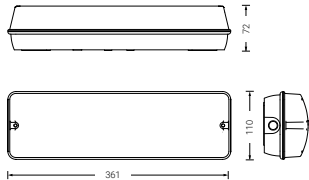


IP65 - IK07



The emergency fittings in the EUROPRISMA range have been designed to guarantee operation in the most challenging installations. Its IP65 combined with a wide range of products makes it the ideal choice for industrial sites.

- Housing: Polycarbonate. Diffuser: Polycarbonate
- Installation: ceiling or wall mounted (can also be recessed using a recession frame).
- Light source: LED.
- IP 65. IK 07. Multitied fittings IK10
- Can be mounted on flammable surfaces.
- Charging LED.
- Test button.
- Circuit installed on a swivelling surface for a quick mounting.
- Quick assembly plug in system.



IP
65

		FINISH	POWER	LUMENS	CONSUMPTION	CURRENT
C24	EH-S24L24	White	24 Vcc	290 lm	2.88 W	0.120 A
C24i	EH-S25L24	White	24 Vcc	240 lm	3 W	0.125 A

Extraline

Exit signs

Fitting with a double function:
emergency lighting and exit sign

EN 60598-1, EN 1838 and 60598-2-22
IP20 - IK07

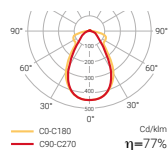


EXTRALINE has been born as an evolved version of the SIGNAL7 product range with two models depending on the mode of operation:

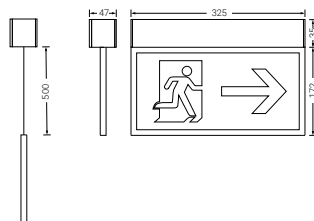
- Exit sign model (reference XS), to help locate the exits in the evacuation route.
- Exit sign + emergency lighting model (reference XD), Which locates the exits and illuminates the evacuation route at the same time. This second function is achieved by means of a secondary source of light located in the lower part of the pictogram.



Viewing distance 30 m



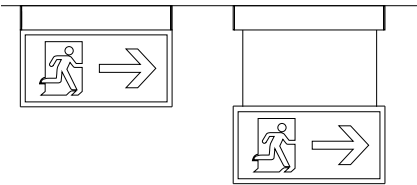
- Already includes the accessory to install it suspended from the ceiling.
- Pictograms included in the packaging.
- Perpendicular/parallel assembly on the wall using an accessory.
- Housing: polycarbonate. Blade: methacrylate.
- Light source: LED.
- Charging LED.
- Test button.
- Charging time 24 hours.
- Power: 24 Vdc



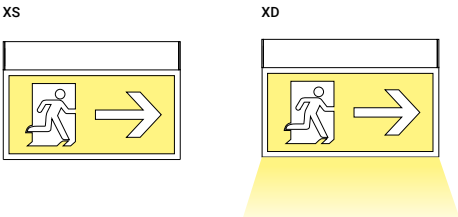
Extraline



Two different mounting options not requiring extra accessories: **surface mounted on the ceiling** or **suspended from the ceiling**.



XD Fitting with double function:
Exit sign and emergency lighting



Maintained LED

IP
20

		FINISH	POWER	LUMENS	CONSUMPTION	CURRENT
C24	XD-S24	White	24 Vcc	100 lm	5.28 W	0.220 A
	XS-S24	White	24 Vcc	–	2.64 W	0.110 A
C24i	XDI-S24	White	24 Vcc	100 lm	2.20 W	0.100 A
	XSI-S24	White	24 Vcc	–	2.4 W	0.100 A

Signal 7

Exit signs

Ceiling surface mounted

EN 60598-1, EN 1838 and 60598-2-22

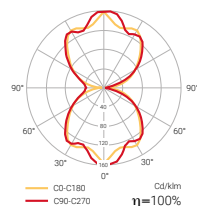


IP20 - IK04

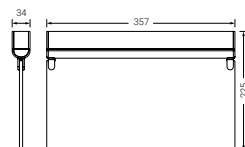


Viewing distance

24 m



The SIGNAL 7 exit signs have been designed as extremely versatile fittings to cover all installation needs. Constructed with polycarbonate housing and a methacrylate blade guaranteeing a viewing distance of 24 m.



- Suspended assembly, recessed or mounted installation on the wall using an accessory.
- Housing: polycarbonate. Blade: methacrylate.
- Light source: LED.
- Charging LED.
- Test button.
- Power: 24 Vdc
- Pictograms included in the packaging.

Signal 7



Parallel to the wall



Perpendicular to the wall

Maintained LED

IP
20

		FINISH	POWER	CONSUMPTION	CURRENT
C24	SG-S24-K	White	24 Vcc	1.704 W	0.071 A
	SG-S24-K-1	Anthracite	24 Vcc	1.704 W	0.071 A
	SG-S24-K-2	Aluminium	24 Vcc	1.704 W	0.071 A
C24i	SGI-S24-K	White	24 Vcc	2.4 W	0.100 A
	SGI-S24-K-1	Anthracite	24 Vcc	2.4 W	0.100 A
	SGI-S24-K-2	Aluminium	24 Vcc	2.4 W	0.100 A

NORMALUX

Emergency lighting
normalux.com



100%

*Entirely designed and
manufactured in Spain*

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