

C24





# Central Battery System

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



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	9 Ah 2 x 12 V · 12 Ah 2 x 12 V · 18 Ah 2 x 12 V · 24 Ah
Autonomy	1h 3h 8h 1h 3h	8h 1h   3h   8h 1h   3h   8h 1h   3h   8h
Total power output (W)	88 W 36 W 14 W 115 W 48 W	V         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	9 0.97 6.62 2.92 1.30 9.94 4.39 1.95 13.25 5.85 2.60
Phase monitor imput	<b>~</b>	✓
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

ECTION MAXIMUM DIS			
1 A	147 m		
2 A	74 m		
3 A	49 m		
1 A	245 m		
2 A	123 m		
3 A	82 m		
	1 A 2 A 3 A 1 A 2 A		

<sup>\*</sup> Length for double wire and charge at end of line.



#### Status LED control



Status LED on: OK



Status LED blinking: FAILURE

Option to decide the status of the charging LED:

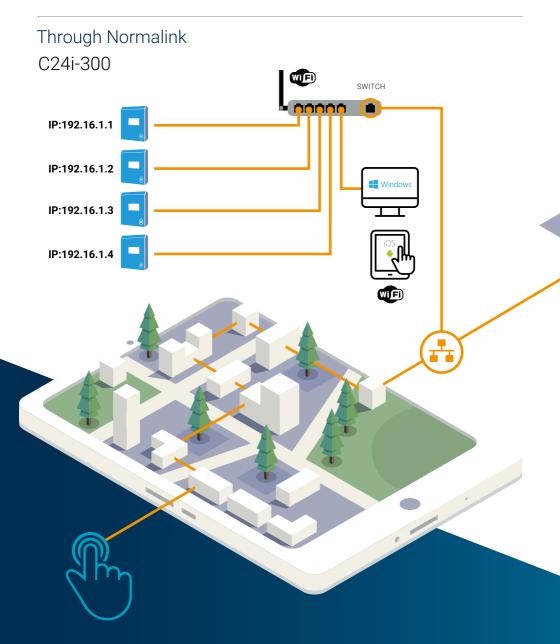
- · ON: Line OK (C24) / fitting OK C-24Ad
- BLINKING: Line failure (C24) / Fitting failure (C24I).

#### 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	
	1h [ 3h [ 8h	1h   3h   8h	1h   3h   8h	1h   3h   8h	1h [ 3h [ 8h	
	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



# Using Modbus C24-100 C24-300 Modbus ID: 0 Modbus ID: 1 Wodbus ID: 2 Up to 250 C24's\* Twisted pair of wire 2 x 1,5 mm² Non Isolated bus max. length: 1.000 m.

\* Depends on gateway limitations





#### CONFIGURATION



#### CONTROL



# Via Led

# recessed

# **Emergency lighting**

For ceiling recess

EN 60598-2-22 IP20 - IK04



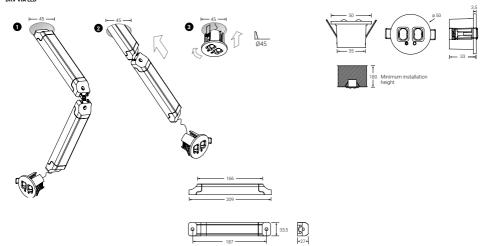
VIA LED is a new concept in emergency lighting. Its small size, its discrete presence and its versatility make it essential in modern installations that require design, safety and efficiency.

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

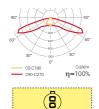


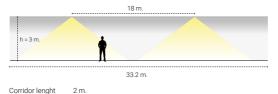
# Via Led recessed



#### MODELS

# **VV** 200 lm Corridors





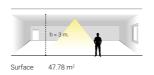
Save in the number of units needed

INTE	INTERDISTANCE								
POSITION	HEIGHT (m)								
	3	4							
$\odot \rightarrow \odot$	6.4	7.6							
ⓐ→®	18	21.1							
③→ ▮	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





1 lux

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

	HEIGHT (m)				
	3	4	5		
$\odot \rightarrow \odot$	10	10.9	11.4		
	3.9	4	3.9		

INTERDISTANCE

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



Target

The data shown are referred to maintained models





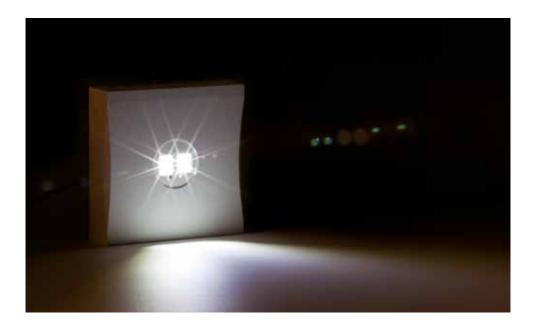
# Via Led surface

# **Emergency lighting**

For ceiling mounting

EN 60598-2-22 IP20 - IK04

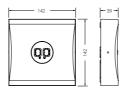




Surface ceiling mounted VIA LED. Like the recessed version it has two different versions with different light distribution, enabling it to cover large corridors (VMV Version) or large spaces (VMS version).

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



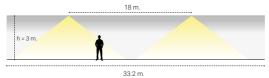
# Via Led surface



#### MODELS

# VMV | 200 lm | Corridors





Corridor lenght 2 m. Target 1 lux

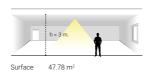


INTERDISTANCE							
POSITION	HEIGHT (m)						
	3	4					
$\odot \rightarrow \odot$	6.4	7.6					
ⓐ→®	18	21.1					
(3) →	7.6	8					
	2.8	3.1					

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	46.56

POSITION	HEIGHT (m)				
	3	4	5		
$\odot$ $\rightarrow$ $\odot$	10	10.9	11.4		
	3.9	4	3.9		
<u></u>	0.5		0.5		

INTERDISTANCE

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

IP 20



The data shown are referred to maintained models



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

# Via Led wall

# **Emergency lighting**

## For surface wall mounting

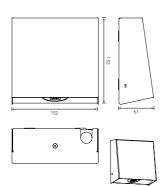
EN 60598-2-22 IP20 - IK04



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).





		FINISH	POWER	LUMENS	CONSUMPTION	CURRENT
C24i	VPSI-S2L24	White	24 Vcc	190 lm	2 W	0.083 A
	VPVI-S2L24	White	24 Vcc	200 lm	2 W	0.083 A

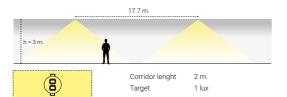
IP 20

# Via Led wall



#### MODELS

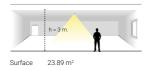
# **VPV** | 200 lm | Corridors



INTERDISTANCE							
POSITION		HEIGHT (m)					
	1,5	2	2,5	3	3,5	4	
3→3	10,6	13,3	15,6	17,7	19,5	20,8	
<b>∞</b> → <b>∞</b>	4,2	4,9	5,5	6,2	6,8	7,4	

# ${ m VPS} \mid$ 190 lm $\mid$ 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

	INTERDISTANCE							
_	POSITION	HEIGHT (m)						
		1.5	2	2.5	3	3.5	4	
	3→3	6.9	8.1	9.1	9.9	10.4	10.8	
	<b>∞</b> → ∞	6.9	8.1	9.1	9.9	10.4	10.8	

# Dunna

## **Emergency lighting**

# For ceiling or wall mounting



#### 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 luminaries 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

45		
_	322,3	
	120,5	

						IP <b>44</b>
		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**

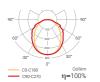
# For ceiling or wall mounting



#### Maintained led



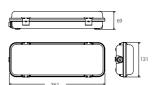
#### Maintained / Non-maintained multiled



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.





FINISH	POWER	LUMENS	CONSUMPTION	CURRE

		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**

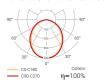
For ceiling or wall mounting



#### Maintained led

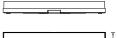


#### Maintained / Non-maintained multiled



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 preinstallation 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







		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**

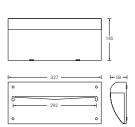
# For wall mounting





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.



						ı₽ <b>22</b>
		FINISH	POWER	LUMENS	CONSUMPTION	CURRENT
C24	V-S3L24	White	24 Vcc	250 lm	6.0 W	0.250 A

# Excellence

## **Emergency lighting**

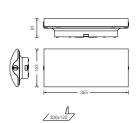
For mounting/recessed installation in ceiling/wall





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.





		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**

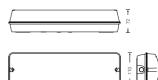
# For ceiling or wall mounting





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. Multiled fittings IK10
- · Can be mounted on flammable surfaces.
- · Charging LED.
- · Test button.
- · Circuit installed on a swivelling surface for a quick
- · 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	EHI-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.

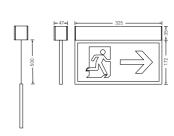




30 m



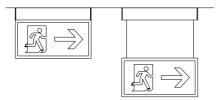
- · Already includes the accesory to install it suspended from the ceiling.
- · Pictograms included in the packaging.
- · Perpendicular/parallel assembly on the wall using an accessory.
- · Housing: polycarbonate. Blade: methacrylate.
- · Light source: LED
- · Charging LED.
- Test button.
- Charging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



# Extraline



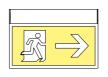
Two different mounting options not requiring extra accesories: surface mounted on the ceiling or suspended from the ceiling.





#### XD Fitting with double function:

Exit sign and emergency lighting





IP 20

0.100 A

### Maintained LED

XD-S24

XS-S24 XDI-S24

XSI-S24

XS

FINISH	POWER	LUMENS	CONSUMPTION	CURRENT
White	24 Vcc	100 lm	5.28 W	0.220 A
White	24 Vcc	-	2.64 W	0.110 A
White	24 Vcc	100 lm	2.20 W	0.100 A

2.4 W

C24

# Signal 7

## Exit signs

## Ceiling surface mounted

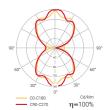
EN 60598-1, EN 1838 and 60598-2-22 IP20 - IK04





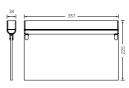


24 m



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



		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



Emergency lighting normalux.com



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