

Life Is On

Schneider  
Electric

# Dardo Plus

Catalogue 06-2016

Emergency lighting addressable system  
and luminaires



[schneider-electric.com](http://schneider-electric.com)

Belgium version

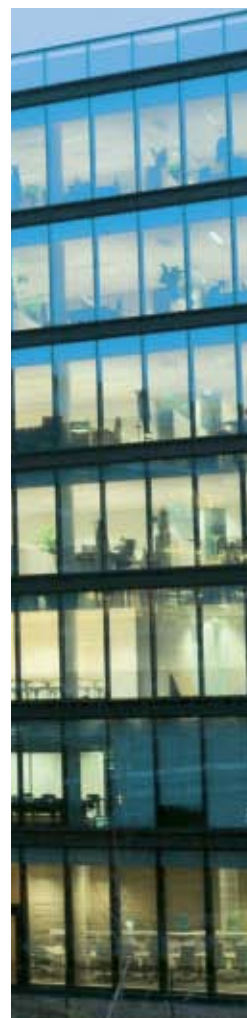
# Dardo Plus : extremely simple emergency lighting!



The Dardo Plus addressable system provides functions that go beyond the scope of centralising/automating the tests required by EN 50172.

Fully upgradeable system, remote monitoring possibilities, alerts via text messaging and/or email, direct integration into LON environments, etc.

Dardo Plus gives you access to full and easy management of the building's emergency lighting installation.





## Easy installation and addressing

- Easy to wire.
- Easy to install in a DIN enclosure or cubicle.
- Easy addressing via 2 thumbwheels on each luminaire.
- No risk of error with Syscon (tests addresses and identifies duplicate and missing addresses).
- Dardo Plus works in 17 languages.

## Remote automatic testing

- Centralises and automates the required emergency lighting installation checks (conformity with EN 50172).
- Each unit is tested according to the addressing plan.
- Tests performed without turning off the power.
- Identification of the devices to be replaced (test reports).
- Test report immediately available: on the PC, the control unit or as a printout (Dardo Plus Printer or desk-top printer).
- Maintenance alert via email or text messaging (DCM interface) or connection to the building's centralized management system (DLM interface).

## Fully adaptable system

- Each Dardo Plus control unit controls up to 100 lighting units.
- Up to 32 control units can operate together (3200 lighting units).
- The system can be upgraded by simply adding control units and lighting units.
- Suitable for both small and large sites: from hotels to multiple-building installations.



> **Easier compulsory monthly and annual tests.**

> **Less maintenance time.**

> **Reduced maintenance costs.**

> **Assistance with maintaining a high level of safety for the installation.**



# Focus on: DCM module Web server function



The Web server function of the DCM module that can be accessed from any computer with an Internet connection allows its users to configure and monitor the emergency lighting installation remotely: program maintenance alerts and define the media on which they are received, monitor remote installations, etc.

- > Compatible with most Web browsers: Internet Explorer, Firefox, etc.
- > Information available in HTML format.
- > Simple, intuitive interface.
- > Multi-media alert Sending/ Receiving: up to 4 email addresses and 10 GSM numbers.
- > 2 access levels for maximum configuration security: administrator level (programming, configuration) and user level (monitoring and alert receiving)



## Customised installation monitoring and control

- Local or remote centralized management with the **DCM** module:
  - locally, via RS232;
  - remotely via a LAN network (Ethernet connection):
    - with the Dardo Plus PC Lite software,
    - with a simple Web browser (Web server function integrated into the **DCM** interface).
- Converters integrated into the **DCM** module: RS232/RS485 and RS485/Ethernet.
- Detailed system configuration and monitoring with the Dardo Plus PC Lite software.
- Maintenance alert: via emails and/or text messages (Web server function).



## Easily integrated into the building management system

- Emergency lighting installation directly integrated into the building management system (LON environments) with the **DLM** module.
- Data directly converted and made available on the centralized building management system interface of the building (e.g.: maintenance alert).
- Up to twenty Dardo Plus control units can be connected to one **DLM** module.
- Use of the TP/FT-10 78-kbps LonWorks protocol.

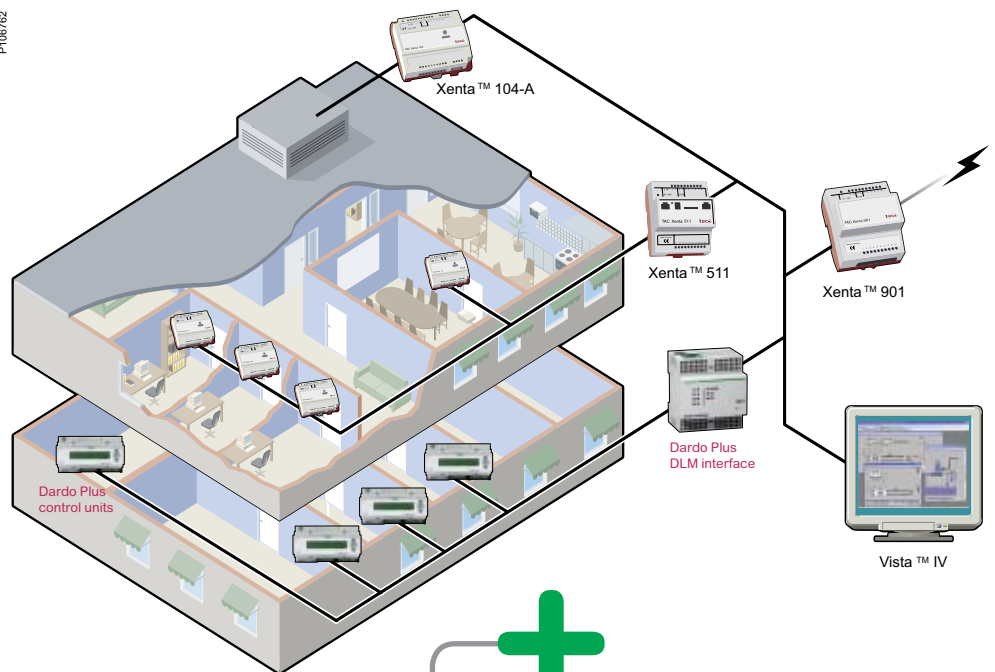


# Dardo Plus and the building management systems (LON)

Integrated building management system (BMS).

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Suitable for any type and size of building, the (BMS) system centralises the management of emergency lighting in the same way as the other utilities in the building: site access (badge), lighting, air-conditioning, heating, anti-intrusion alarms, etc.



Example of a Dardo Plus system interfaced with TAC building management system.

- Improved emergency lighting operation.
- Reduction of emergency lighting installation costs.
- Speedy intervention (maintenance).
- Dardo Plus very easily becomes interoperable.
- Dardo Plus data is centralized from a single interface.

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Dardo Plus control unit



Dardo Communication Module (DCM)



Dardo Lon Module (DLM)



Dardo Plus Printer module



Syscon address testing device

## Dardo Plus, the intelligent system

Dardo Plus is a system designed to centrally monitor addressable self-contained emergency lighting units. It consists of a control unit that performs regular automatic operating tests on lighting units connected to the Dardo Plus bus. A single pair of wires.

- A unit fault can therefore be easily and quickly identified.
- It is also possible to print a test report or to have it available on a local PC or on a PC connected to the installation via the Internet.
- Users can define the tests in conformance with the standards in force in their country (duration, frequency, etc.).
- The Dardo Plus system contributes to EN 50172 conformity: "Emergency escape lighting system". This standard defines the procedures required to maintain the effectiveness of the emergency lighting system. It specifies that the results of regular tests, as well as any faults and other system failures and the corrective measures taken should be recorded in a maintenance register (log book).
- A printout of the test results (including all the details relating to the day and time the tests were performed) can be kept in the log book, in case an audit is required.
- Apart from EN 50172, other regulations and decrees stipulate the requirement for full and up-to-date documentation (such as the log book) as proof that the emergency lighting system has been maintained efficiently.
- The Dardo Plus system is designed to fully meet the most stringent requirements in terms of design, control and monitoring of emergency lighting systems.

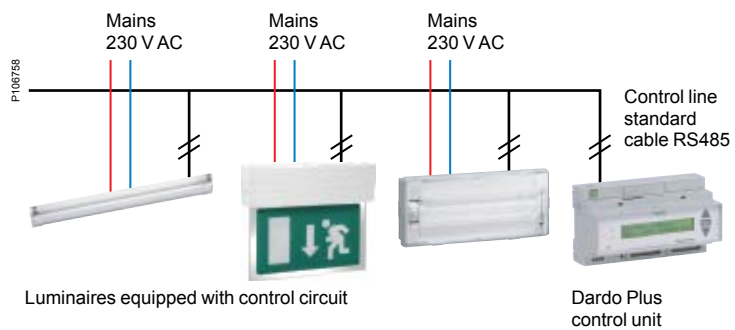
## LAN and LON networks

The Dardo Plus system can communicate over the LAN or LON networks with a PC or a building management system via the DCM and DLM interfaces.

## Types of luminaires

Dardo Plus can monitor two types of luminaires:

- Self-contained emergency lighting units (Dardo version) with an internal battery.
- Luminaires fitted with a conversion kit (Dardo version), even if they are not sold anymore.



Luminaires equipped with control circuit

Dardo Plus control unit



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Dardo Plus version

P109906



P106740EN



## Dardo self-contained emergency lighting units

These units are connected to the Dardo Plus bus. They have an address that the user can assign by means of two thumbwheels. This address allows each unit to be clearly identified and it is included in the fault messages managed by the Dardo Plus control unit. This address can range from 01 to 00 (00 means 100), as 100 is the maximum number of luminaires that the control unit can manage.

## Manual and automatic tests

The Dardo Plus control unit can run the following tests:

- Immediate manual tests performed via the front face keys.
- Automatic tests programmed on the dates set by the user.
- Tests requested from a PC or a building management system via the LAN or LON networks.

## Options

- By connecting the Dardo Plus Printer (optional device) directly to the control unit, it is possible to print a report on the state of the emergency lighting installation and on all the significant events that have occurred.
- It is also possible to monitor the entire installation and control its main functions (this can also be done in remote control mode):
  - via a PC running the Dardo Plus PC Lite software and the DCM interface ; over a LAN network,
  - via a PC connected to the DCM interface used as a Web server ; over a LAN network,
  - via a centralized building management system (BMS system) connected to the DLM interface ; over a LON network.

## Maintenance alerts

The test results are available on the control unit and can be printed on the Dardo Plus printer.

- They are also available on the PC (via the DCM or DLM interfaces).
- They can be emailed to the required addresses.
- They can also be sent automatically as text messages to selected numbers.

The control unit tests all the self-contained emergency lighting units (evacuation lighting units, anti-panic lighting units, etc.).

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## Control unit

### Operation

The control unit runs regular operating tests (unit, card, light source), as well as autonomy (battery) tests, on the Dardo self-contained lighting units. It immediately indicates a fault directly on its screen. The tests can also be run manually from the keyboard, using simple and intuitive commands, or from a PC connected via a DCM or DLM interface.

### Advantages

The Dardo Plus system is also suitable for small installations typically consisting of several dozen lighting units connected to one or two control units.

It is also extremely effective on installations with several hundred, or even several thousand lighting units.

It makes it easier to detect any faults and helps to keep the emergency lighting system in good operating order.

Note that the tests can be performed without switching off the current in plants and buildings.

### Option

By connecting the optional Dardo Plus printer module directly to the control unit, you can print a report on the state of the installation. The maintenance staff will therefore immediately know which elements have to be replaced (battery, light source or complete unit) and where they are to replace them.

### Monitoring

The Dardo Plus system can be directly connected to a PC, or via Ethernet, in order to monitor various installations, even remote ones, using the Dardo Plus PC Lite software and the DCM interface.

It can also be controlled via the DCM interface when the latter is used as a Web server. In this case, there is no need to install the Dardo Plus PC Lite software on the PC.

Monitoring can also be performed from the LON network (BMS systems). In this case, the DLM interface connects the Dardo Plus installation to the building monitoring system.

## Technical data

Power supply	220/240 V- 50 Hz
Consumption	2 VA
Output lines	1
Max. number of units that can be connected	100
Max. distance between the Dardo units and the Dardo Plus system	600 m with 2 x 2.5 mm <sup>2</sup> cable 400 m with 2 x 1.5 mm <sup>2</sup> cable 200 m with 2 x 1 mm <sup>2</sup> cable
Maximum cumulative length of the Dardo Plus unit control line	1000 m
Weight	0.735 kg



Dardo Communication Module (DCM)



Dardo Lon Module (DLM)

## Interface modules

### DCM interface

#### General application

- The DCM module allows the Dardo control unit to interface with a PC:
  - directly with RS232 connection,
  - via Ethernet,
  - via analogue modem (RS232 connection),
  - via GSM / GPRS modem (RS232 connection).
- Supervision of installation possible with a PC:
  - and the dedicated software PC Lite,
  - and an usual Internet browser, using the web server functionalities included in the DCM module.
- Up to 32 Control unit connected to a DCM interface.

#### Using of DCM interface with web server feature:

- Setting parameters on system architecture.
- Perform tests (functional, autonomy).
- Monitoring of the installation (alarms).
- Remote fault signalling : e mail (4 e mail addresses) and GSM (10 numbers).

The interface must be powered by 24 V DC (100 mA) power supply ABL8MEM24012 type.

The LEDs on the front panel shows the traffic information through the interface.

### DLM interface

#### General application

- The DLM interface allows the Dardo Plus system to interface with LON environments such as the building management systems.
- It enables the Dardo Plus addressable emergency lighting system to be viewed directly from the building automation system.
- The DLM interface communicates on the LonWorks TP/FT-10, 78 kbps LON (Local Operating Network).
- Up to 20 Control unit connected to a DLM interface.

This interface must be powered by a 24 V DC (100 mA) supply ABL8MEM24012 type.

The LEDs on the front panel provide information on the system information traffic through the interface.

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Dardo Plus Printer module

## Printer

### Dardo Plus printer module (optional)

- The Dardo Plus printer module is specifically designed for connection to the Dardo Plus control units.
- The control unit directly sends the printer the data allowing it to print a report on the state of the installation and on all the significant events that have occurred. Any lighting unit failures and the operating and autonomy tests are then recorded. After the report has been used to prepare the maintenance operations, it is kept in the log book, as specified by the standard.
- The Dardo Plus printer module can be used for four interconnected Dardo Plus control units.
- This module was designed to be wall mounted by means of the holes and slots located at the back of the box. Ideally, it should be installed in a Prisma enclosure or cubicle.

## Address tester

The address tester is an optional monitoring device designed for the Dardo Plus system.

It is used to monitor the Dardo lighting units and indicates:

- The number of units (00 to 99) that are connected to the line.
- The presence or absence of a mains supply for charging the units:
  - yellow LED ON: unit power supply network present,
  - yellow LED OFF: unit power supply network not present.
- Light ON/OFF state:
  - red LED ON: OFF state,
  - red LED OFF: ON state.
- Autonomy: 1 hour/3 hours:
  - green LED ON: the Dardo Plus system is configured for an autonomy of 3 hours,
  - green LED OFF: the Dardo Plus system is configured for an autonomy of 1 hour.

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Dardo Plus Syscon address tester

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PC Lite software

## Supervision software PC Lite

Dardo Plus PC Lite: software for Dardo Plus units supervision by PC.

### General descriptions

Dardo Plus PC Lite is software for the supervision of emergency lighting systems designed with Dardo Plus control units; using a personal computer, they really help the user to organise maintenance and check of emergency lighting system.

This software can control up to 32 Dardo Plus control units, and it is connected, using a RS485 dedicated line or Ethernet connections (max 255, including serial ports dedicated on the PC), between the Dardo Plus units and a remote central PC.

### Functioning

Dardo Plus PC lite is a powerful tool for the supervision of Schneider Electric installations comprising Dardo Plus control units; it helps users plan maintenance operations.

The remote control functions allow the system to be closely supervised from a remote location (LAN), performing tests and promptly identifying any faulty luminaires.

### Advantage

In highly complex installations.

### Connections

Dardo Plus PC lite allows the supervision of both local and remote via Ethernet (LAN) installations, as for example schools, sports facilities, cinemas, theatres, etc.

### Connection line specifications

■ Maximum length between printer and control unit:

- 1200 m with 24 AWG cable\* 1-3 shielded pairs,
- shield earthed at just one point of each section.

■ Maximum length between converter RS232/485 and control unit:

- 1200 m with 24 AWG cable\* 2 shielded pairs,
- shield earthed at just one point of each section max 32 control units

(\* ) Shielded, twisted cable with 1, 2 or 3 pairs and core size 0.51 mm<sup>2</sup> with rigid wire or 0.16 mm<sup>2</sup> with flexible wire.

### Requirements:

- Operating system: Windows XP®, Windows Vista®.
- Processor: adjusted operating system.
- Memory: adjusted operating system.
- Hard disk: adjusted operating system.
- Graphics card with resolution: 1024 x 768.
- CD-ROM.
- Keyboard and mouse: Microsoft®.

## Product catalogue numbers

Model	Cat. no.
<b>Dardo Plus control unit</b>	
WEST	OVA34211E
<b>Dardo Plus Printer</b>	
Printer module	OVA52210E
<b>Dardo Plus Interface</b>	
Dardo Communication Module DCM*	OVA52215
Dardo LON Module DLM*	OVA52214
<b>Dardo Plus Software</b>	
PC Lite	OVA52004E
<b>Dardo Plus Syscon address tester</b>	
Syscon	OVA52213E

(\* ) Use 24 V DC , > 100 mA supply ALB8MEM24012 type.

OVA34211E: Italian / English / Spanish / Portuguese / French / Dutch / German.

## Interconnection and supervision

In the case of large, complex systems, up to four Dardo Plus control units can be interconnected. The system can use eight groups of four control units. The control units operate independently from one another but share the same printer (Dardo Plus printer module) to reduce costs (1 printer for a group of 4 control units). When four control units are interconnected, a maximum of 400 lighting units can be monitored.

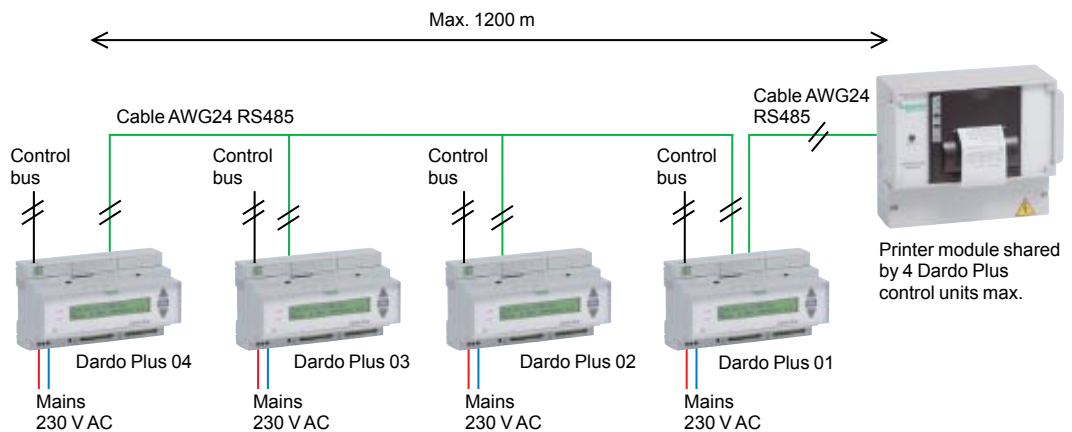
An RS485 serial link and a shielded twisted-pair cable (1 pair, type 24 AWG) are used to interconnect the control units.

Dardo Plus can be directly connected to a PC in order to monitor geographically distant installations. An RS485 serial bus and the Dardo Plus PC Lite software are used to connect Dardo Plus to the PC (up to 32 control units can be monitored for each installation).

The PC provides information in graphic form (with a synoptic or a map) on the state of the system, the configuration of the luminaires, the possibility of connecting the luminaires to the control unit, the operating state and the autonomy of each lighting unit.

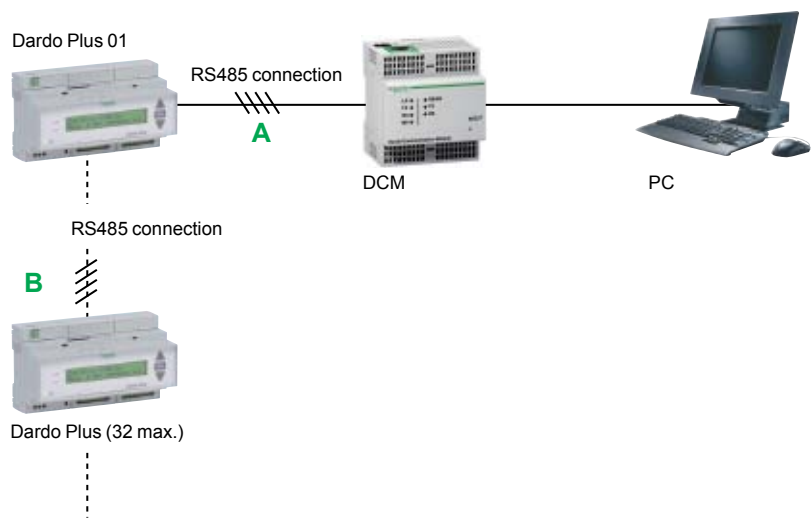
### Interconnection of 4 Dardo Plus Control Units

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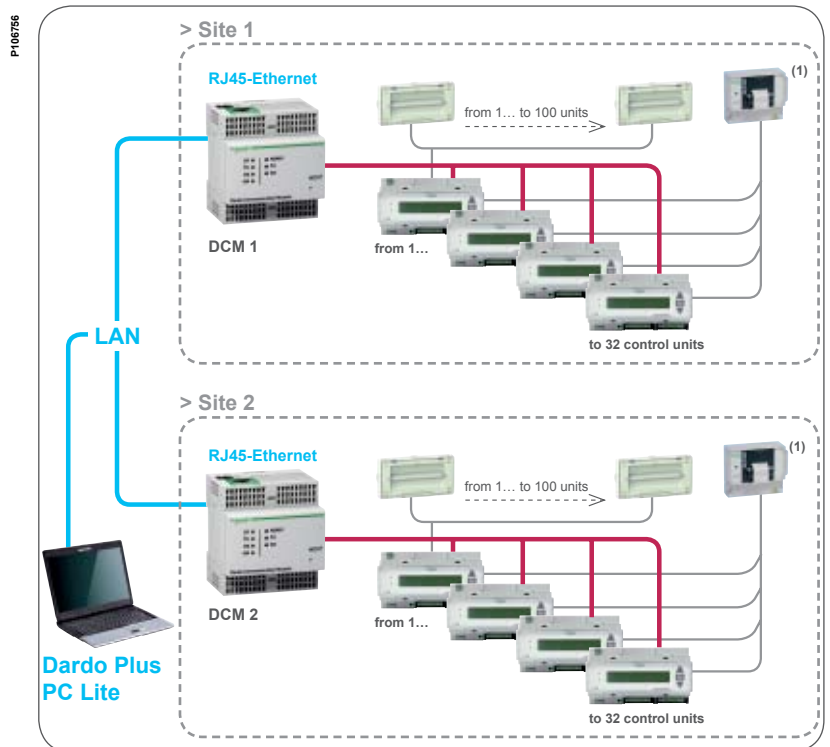
### RS485 supervision

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The control units and the PC are placed in different rooms of the same building  
**A+B = 1200 m max.**

Centralized monitoring, by a PC running dedicated software, of installations that may be geographically distant (this is possible via the Ethernet network).



The Dardo Plus control unit can easily be connected to an Ethernet network with a special converter. This type of connection allows the installation to be easily controlled and monitored.

This example shows how a PC in one location can control various installations, even if they are geographically separated.

Apart from displaying faults, the supervision software can be used to remotely run all the commands and to implement all the functions that are normally directly executed on the control unit.

- The DCM interface is used to monitor the emergency lighting installation locally via an RS232 connection or remotely via a LAN network. The latter is achieved by using the Dardo Plus PC Lite software or a simple Internet browser thanks to the integrated Web server function.

- The DLM interface is used to integrate a Dardo Plus installation into a building management system (LON environment).






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### Technical specifications


- Available for maintained, non-maintained and combined operation: the maintained products can be used in non-maintained mode. The selection is made on the connector.
- Installation: quick fixing plate-body
- Compliant with IEC EN 60598-2-22 standard
- ENEC certification (Belgium)
- Centralized control by Dardo Plus control unit
- Can be inhibited with rest mode via Dardo Plus control unit
- Protection rating: IP65, IK07
- Insulation class: II 
- Installation even on flammable surfaces
- Operating temperature: 0...40°C
- Fire behaviour (IEC 60695-2-10), incandescent wire: 850°C
- Case of self-extinguishing polycarbonate 94V-2 (UL 94)
- Light source:
  - 1 fluorescent lamp
  - long-lasting LED light source (> 10 years expected in typical ambient temperature\* condition)
- Power supply: 230 V, 50 Hz
- Complete recharge:
  - in 12 h for model with 1 h autonomy
  - in 24 h for model with 2 h autonomy

(\*) Typical ambient temperature: 25°C.

## Product catalogue numbers


Exiway One Dardo	Protection rating	IP	IK	Autonomy (h)	Average flux (lm) in		Lamp rated power (W)	Socket	Consumption		Ni-Cd battery		Glasses	Cat. no.
					emergency condition	maintained mode			(VA)	(W)	(V)	(Ah)		
<b>Non-maintained</b>														
	IP65	IK07	1	380	-	-	8	G5	8.40	1.60	4.8	4.0	Fresnel	<b>OVA34390</b>
					525	-	11	2G7	8.40	1.60	4.8	4.0	Fresnel	<b>OVA34392</b>
<b>Maintained</b>														
	IP65	IK07	1	380	380		8	G5	24.20	10.30	4.8	4.0	Fresnel	<b>OVA34391</b>

Note: The maintained products can be used in Non-maintained mode. The selection is made on the connector.

Exiway One Dardo LED	Protection rating	IP	IK	Autonomy (h)	Average flux (lm) in		Lamp rated power (W)*	Socket	Consumption N.M/M		Ni-Cd battery		Glasses	Cat. no.
					emergency condition	maintained mode			(VA)	(W)	(V)	(Ah)		
<b>Non-maintained</b>														
	IP65	IK07	1	100	-	-	8	LED	4.8	0.8	3.6	1.5	Fresnel	<b>OVA34336</b>
					260	-	24	LED	5.6	1.3	4.8	1.5	Fresnel	<b>OVA34340</b>
				2	100	-	8	LED	4.9	1.0	3.6	2.5	Fresnel	<b>OVA34338</b>
					260	-	24	LED	5.6	2.5	4.8	4.0	Fresnel	<b>OVA34342</b>
<b>Maintained</b>														
	IP65	IK07	1	100	100		8	LED	4.6/8.5	0.9/4.3	3.6	1.5	Fresnel	<b>OVA34337</b>
					260	260	24	LED	6.2/12.5	1.5/6.4	7.2	1.6	Fresnel	<b>OVA34341</b>
				2	100	100	8	LED	4.9/9.8	1.0/4.3	3.6	2.5	Fresnel	<b>OVA34339</b>
					260	260	24	LED	5.6/14	1.5/6.7	6.0	2.5	Fresnel	<b>OVA34343</b>
<b>High Flux</b>														
<b>Non-maintained</b>														
	IP65	IK07	1	450	-	-	11	LED	5.6	1.3	4.8	4.0	Fresnel	<b>OVA34347</b>
					580	-	24	LED	5.6	1.3	4.8	4.0	Fresnel	<b>OVA34348</b>
				2	400	-	11	LED	5.6	1.3	4.8	4.0	Fresnel	<b>OVA34345</b>
<b>Maintained</b>														
	IP65	IK07	1	400	400		11	LED	6.2/12.5	1.5/6.4	7.2	1.6	Fresnel	<b>OVA34344</b>
					2	400	400	11	LED	5.6/14	1.5/6.7	6.0	2.5	Fresnel

Note: The maintained products can be used in Non-maintained mode. The selection is made on the connector.

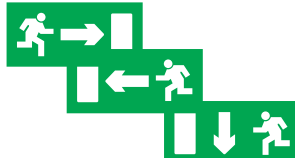
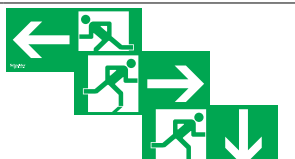




## Ni-Mh battery and -25°C ambient temperature products

Exiway One Dardo LED	Protection rating	IP	IK	Autonomy (h)	Average flux (lm) in		Lamp rated power (W)	Socket	Consumption		Ni-Mh battery		Glasses	Cat. no.
					emergency condition	maintained mode			(VA)	(W)	(V)	(Ah)		
<b>Maintained</b>														
	IP65	IK07	1	260	260		24*	LED	13.5/21.8	3.4/5.9	4.8	2.0	Fresnel	<b>OVA34349</b>

Note: The maintained products can be used in Non-maintained mode. The selection is made on the connector.




\*: power equivalent to a fluorescent tube

### Accessories catalogue numbers

			Compatibility	Dimensions (mm) height x width x depth	Cat. no.
<b>Pictogram stickers</b> (set of 3) <b>Left/Right/Down</b>	STD	 <p>P92887 P92888 P92889</p>	11 W/LED	114 x 280 x 0.1	<b>OVA53056</b>
			8 W	127 x 354 x 0.1	<b>OVA53057</b>
Visibility: 11 W/LED: 22 m 8 W: 25 m	DIN	 <p>P106501 P106502 P106503</p>	11 W/LED	114 x 280 x 0.1	<b>OVA53058</b>
			8 W	127 x 354 x 0.1	<b>OVA53059</b>
<b>False ceiling kit*</b>	White	 <p>P118948 P106512 P108514</p>	11 W/LED	190 x 350 x 32	<b>OVA53071</b>
			8 W	205 x 425 x 32	<b>OVA53074</b>
	Black		11 W/LED	190 x 350 x 32	<b>OVA53072</b>
			8 W	205 x 425 x 32	<b>OVA53075</b>
	Aluminium		11 W/LED	190 x 350 x 32	<b>OVA53073</b>
			8 W	205 x 425 x 32	<b>OVA53076</b>
<b>Frame for flush mounting box</b>	White	 <p>P102893 P106485 P102894</p>	11 W/LED	194 x 364 x 35	<b>OVA53101</b>
			8 W	206 x 441 x 35	<b>OVA53104</b>
	Black		11 W/LED	194 x 364 x 35	<b>OVA53102</b>
			8 W	206 x 441 x 35	<b>OVA53105</b>
	Aluminium		11 W/LED	194 x 364 x 35	<b>OVA53103</b>
			8 W	206 x 441 x 35	<b>OVA53106</b>
<b>Flush mounting box</b>		 <p>P118875</p>	11 W/LED		<b>OVA53083</b>
			8 W		<b>OVA53084</b>
<b>Protective grid</b>		 <p>P88698</p>	11 W/LED	191 x 347 x 93	<b>OVA53098</b>
			8 W	226 x 420 x 98	<b>OVA53099</b>
<b>Tamper-proof screw</b>			All	-	<b>OVA53100</b>

(\*) Use these accessories only on sturdy material, like wood, metal or plaster plates (no glass wool plates).

### Accessories catalogue numbers (cont.)

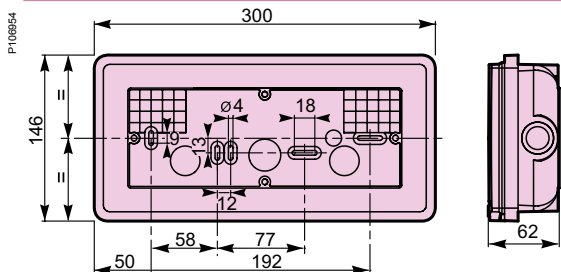
		Compatibility	Dimensions (mm) height x width x depth	Cat. no.
<b>Vetosignal STD</b>  Visibility: 11 W/LED: 22 m 8 W: 27 m	Down/Down	11 W/LED	133 x 266 x 8	<b>OVA53061</b>
	Left/Right   P118944	8 W	169 x 338 x 8	<b>OVA53063</b>
		11 W/LED	133 x 266 x 8	<b>OVA53060</b>
		8 W	169 x 338 x 8	<b>OVA53062</b>
<b>Vetosignal DIN</b>  Visibility: 11 W/LED: 22 m 8 W: 27 m	Down/Down	11 W/LED	133 x 266 x 8	<b>OVA53065</b>
	Left/Right   P106504	8 W	169 x 338 x 8	<b>OVA53067</b>
		11 W/LED	133 x 266 x 8	<b>OVA53064</b>
		8 W	169 x 338 x 8	<b>OVA53066</b>
<b>Primasignal IP65 with 4 STD stickers (Left/Right/Down/Down)</b>  Visibility: 26 m	Ceiling	8 W	163 x 362 x 154	<b>OVA53068</b>
	Flag			
	Wall			
<b>Hanging / electrified track kit</b>	 P06694	All models	—	<b>OVA50347E</b>

### Spare parts catalogue numbers

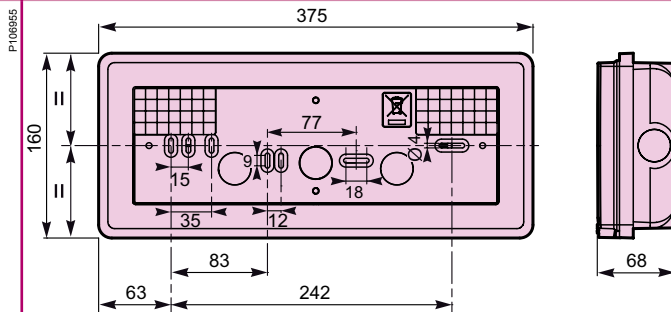
	Description	Compatibility	Cat. no.
<b>Fluorescent tubes</b>   P118925   P118928	8 W, G5	OVA34390, OVA34391	<b>OVA51008E</b>
	11 W, 2G7	OVA34392	<b>OVA51044E</b>
<b>Batteries (Ni-Cd)</b>   P118934   P118929	3.6 V, 1.5 Ah	OVA34336, OVA34337	<b>OVA51013E</b>
	3.6 V, 2.5 Ah	OVA34338, OVA34339	<b>OVA51094</b>
	4.8 V, 1.5 Ah	OVA34340	<b>OVA51016E</b>
	4.8 V, 4.0 Ah	OVA34342, OVA34345, OVA34347, OVA34348, OVA34390, OVA34391, OVA34392	<b>OVA58994</b>
	6.0 V, 2.5 Ah	OVA34343, OVA34346	<b>OVA51054</b>
	7.2 V, 1.6 Ah	OVA34341, OVA34444	<b>OVA51056</b>
<b>Batteries (Ni-Mh)</b>   P118929	4.8 V, 2 Ah	OVA34335	<b>OVA51099</b>
	<b>Battery heater (battery not included)</b>	OVA34335	<b>OVA51103</b>

### Mounting dimensions

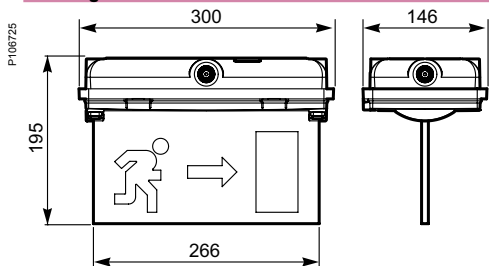
#### 11 W/LED



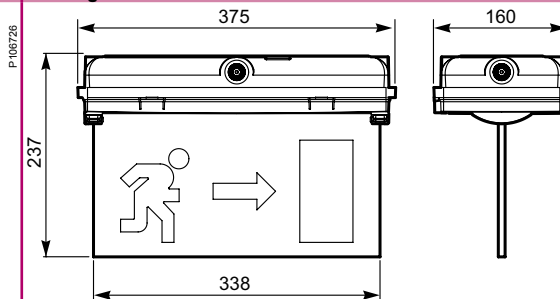
#### 8 W



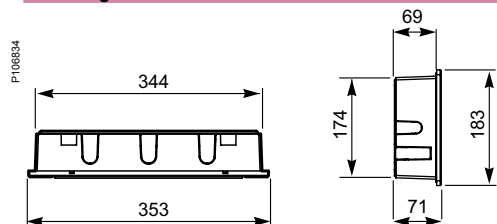
#### Vetosignal 11 W/LED



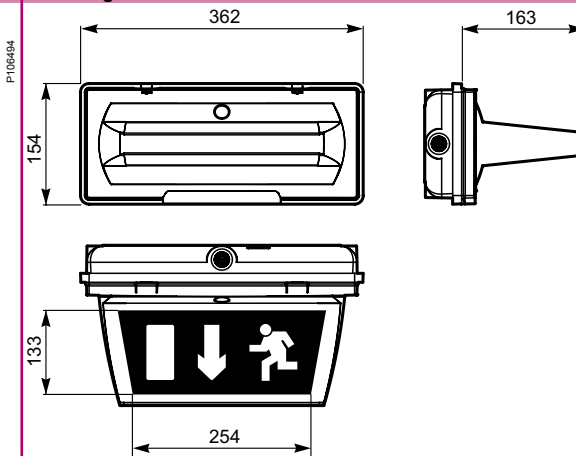
#### Vetosignal 8 W



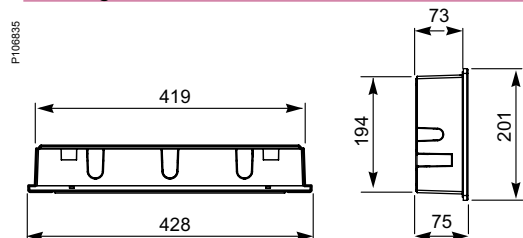
#### Mounting box 11 W/LED alone



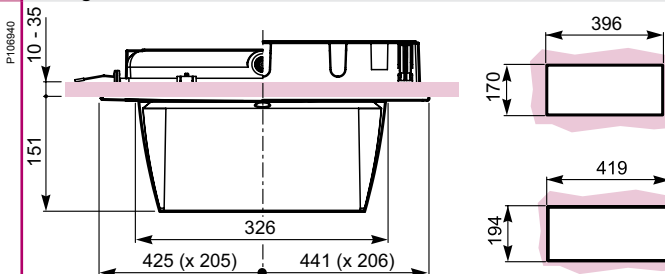
#### Prismasignal 8 W



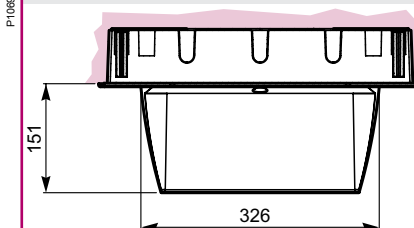
#### Mounting box 8 W alone



#### Ceiling recessed with or without recessed box

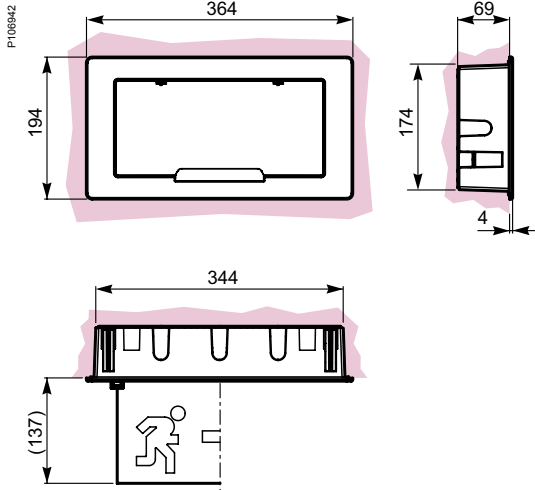


#### Recessed with recessed box

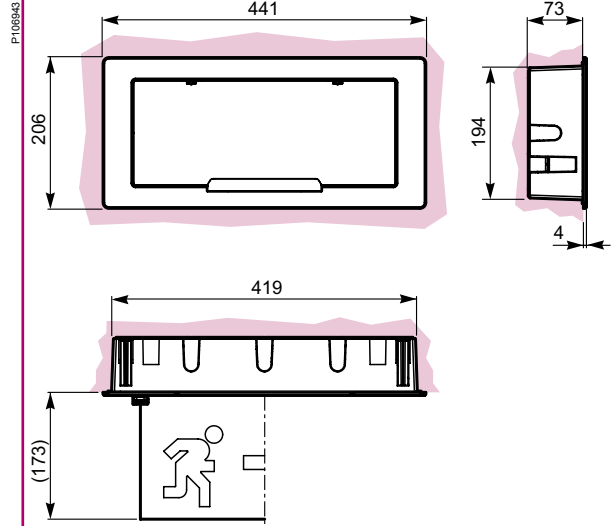


### Dimensions in installation

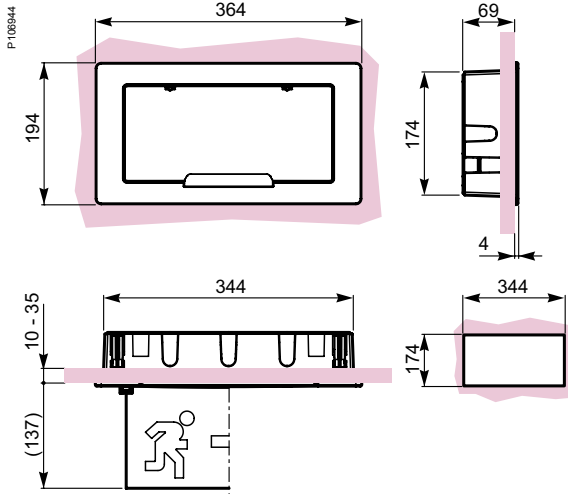
Recessed with recessed box 11 W/LED (Vetrosignal)



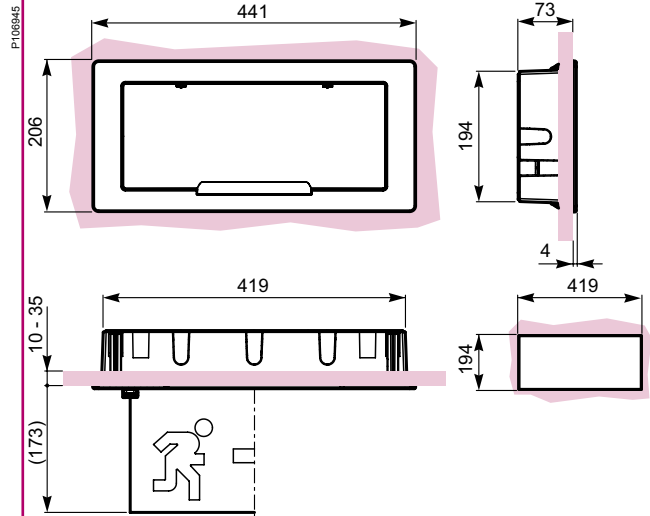
Recessed with recessed box 8 W (Vetrosignal)



Ceiling recessed with recessed box 11 W/LED (Vetrosignal)

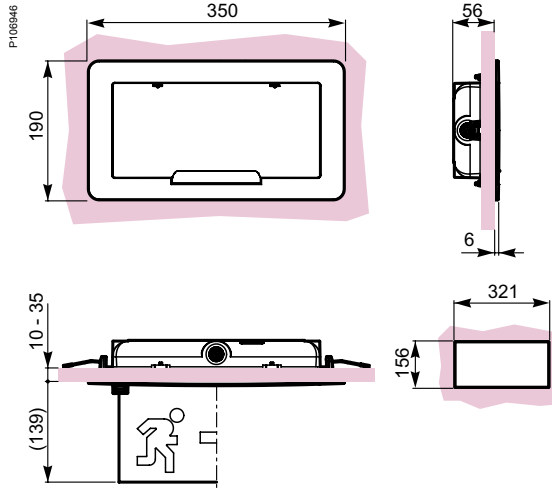


Ceiling recessed with recessed box 8 W (Vetrosignal)

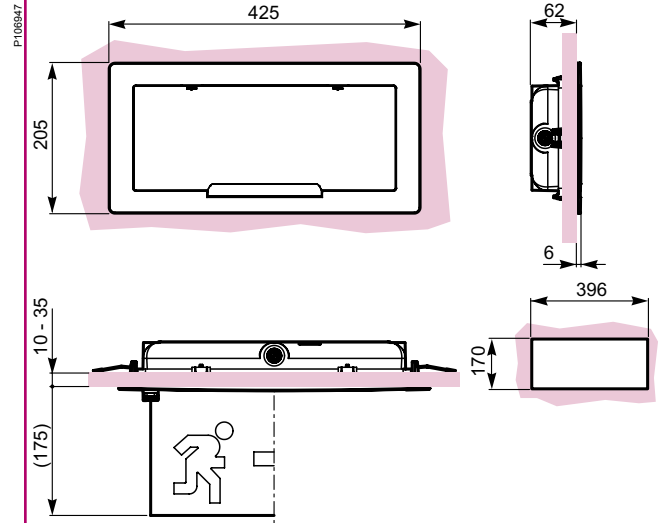


### Dimensions in installation

Ceiling recessed with frame with springs 11 W/LED (Vetrosignal)



Ceiling recessed with frame with springs 8 W (Vetrosignal)








P1110328



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### Technical specifications

■ Available for maintained, non-maintained and combined operation: the maintained products can be used in non-maintained mode. The selection is made on the connector.

- Installation: quick fixing plate-body
- Compliant with IEC EN 60598-2-22 standard
- ENEC certification (Belgium)
- Centralized control by Dardo Plus control unit
- Can be inhibited with rest mode via Dardo Plus control unit
- Protection rating: IP42, IK07
- Insulation class: II 
- Installation even on flammable surfaces
- Operating temperature: 0...40°C
- Fire behaviour (IEC 60695-2-10), incandescent wire: 850°C
- Case of self-extinguishing polycarbonate 94V-2 (UL 94)
- Light source:
  - 1 fluorescent lamp
  - long-lasting LED light source (> 10 years expected in typical ambient temperature\* condition)
- Power supply: 230 V, 50 Hz
- Complete recharge: in 12 h for all models

(\*) Typical ambient temperature: 25°C.

### Product catalogue numbers

Exiway Plus Dardo	Protection rating	IP	IK	Autonomy (h)	Average flux (lm) in		Lamp rated power (W)	Socket	Consumption		Ni-Cd battery		Glasses	Cat. no.
					emergency condition	maintained mode			(VA)	(W)	(V)	(Ah)		
<b>High Flux</b>														
<b>Non-maintained</b>														
	IP42	IK07	1	200	-	6	G5	6.40	1.10	6.0	1.5	Fresnel	<b>OVA34490</b>	
				250	-	8	G5	6.40	1.10	6.0	1.5	Fresnel	<b>OVA34491</b>	
				380	-	8	G5	8.40	1.60	4.8	4.0	Fresnel	<b>OVA34492</b>	
				525	-	11	2G7	8.40	1.60	4.8	4.0	Fresnel	<b>OVA34494</b>	
<b>Maintained</b>														
	IP42	IK07	1	380	380	8	G5	24.20	10.30	4.8	4.0	Fresnel	<b>OVA34493</b>	
<b>LED</b>														
<b>Non-maintained</b>														
	IP42	IK07	1	440	-	24*	LED	5.60	1.30	4.8	4.0	Fresnel	<b>OVA34496</b>	
				<b>Maintained</b>										
	IP42	IK07	1	260	260	18*	LED	18.70	5.90	7.2	1.5	Fresnel	<b>OVA34495</b>	

Note: The maintained products can be used in Non-maintained mode. The selection is made on the connector.

## Accessories catalogue numbers

		Compatibility	Dimensions (mm) height x width x depth	Cat. no.
<b>Pictogram stickers (set of 3)</b> <b>Left/Right/Down</b>  Visibility: 6/11 W/LED: 22 m 8 W: 25 m	STD P102887 P102888 P102889	6/11 W/LED 8 W	114 x 280 x 0.1 127 x 354 x 0.1	OVA53056 OVA53057
	DIN P106501 P106502 P106503	6/11 W/LED 8 W	114 x 280 x 0.1 127 x 354 x 0.1	OVA53058 OVA53059
<b>False ceiling kit*</b>	White P118847	6/11 W/LED 8 W	190 x 350 x 29 213 x 424 x 29	OVA53077 OVA53080
	Black P106511	6/11 W/LED 8 W	190 x 350 x 29 213 x 424 x 29	OVA53078 OVA53081
	Aluminium P106513	6/11 W/LED 8 W	190 x 350 x 29 213 x 424 x 29	OVA53079 OVA53082
		6/11 W/LED 8 W	190 x 350 x 29 213 x 424 x 29	OVA53079 OVA53082
<b>Frame for flush mounting box</b>	White P102893	6/11 W/LED 8 W	209 x 364 x 32 219 x 441 x 32	OVA53107 OVA53110
	Black P106485	6/11 W/LED 8 W	209 x 364 x 32 219 x 441 x 32	OVA53108 OVA53111
		6/11 W/LED 8 W	209 x 364 x 32 219 x 441 x 32	OVA53108 OVA53111
	Aluminium P102894	6/11 W/LED 8 W	209 x 364 x 32 219 x 441 x 32	OVA53109 OVA53112
		6/11 W/LED 8 W	209 x 364 x 32 219 x 441 x 32	OVA53109 OVA53112
	<b>Flush mounting box (1)</b>	P118875	6/11 W/LED	
8 W				OVA53084
<b>Protective grid</b>	P88698	6/11 W/LED	191 x 347 x 93	OVA53098
		8 W	226 x 420 x 98	OVA53099
<b>Tamper-proof screw</b>		All	–	OVA53100
<b>Vetosignal STD</b>  Visibility: 6/11 W/LED: 22 m 8 W: 27 m	Down/Down P118844	6/11 W/LED 8 W	133 x 266 x 8 169 x 338 x 8	OVA53061 OVA53063
	Left/Right	6/11 W/LED	133 x 266 x 8	OVA53060
		8 W	169 x 338 x 8	OVA53062
	<b>Vetosignal DIN</b>  Visibility: 6/11 W/LED: 22 m 8 W: 27 m	Down/Down P106504	6/11 W/LED 8 W	133 x 266 x 8 169 x 338 x 8
Left/Right		6/11 W/LED	133 x 266 x 8	OVA53064
		8 W	169 x 338 x 8	OVA53066
<b>Hanging / electrified track kit</b>		All models	–	OVA50347E







(1) Put the built-in plastic spacer in place



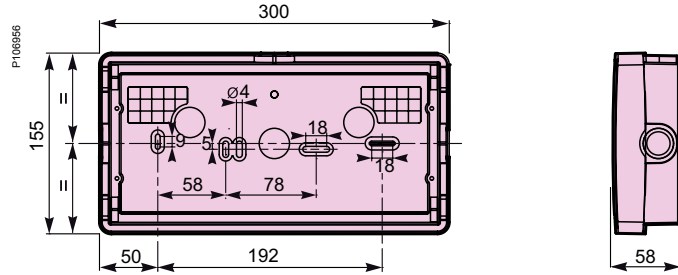
(\* ) Use these accessories only on sturdy material, like wood, metal or plaster plates (no glass wool plates).

## Spare parts catalogue numbers

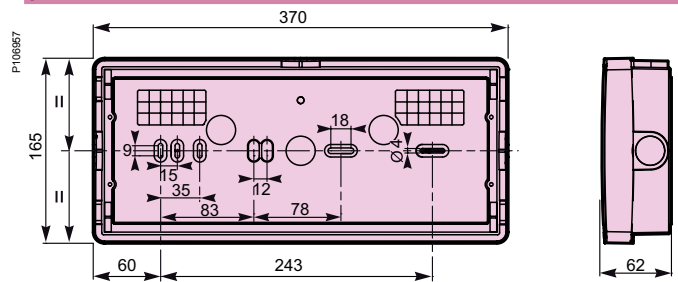
	Description	Compatibility	Cat. no.
 P118925	<b>Fluorescent tubes</b>		
	6 W, G5	OVA34490	<b>OVA51058</b>
	8 W, G5	OVA34491, OVA34492, OVA34493	<b>OVA51008E</b>
 P118928	11 W, 2G7	OVA34494	<b>OVA51044E</b>
 P118934	<b>Batteries (Ni-Cd)</b>		
	4.8 V, 4.0 Ah	OVA34492, OVA34493, OVA34494, OVA34496	<b>OVA58994</b>
	6.0 V, 1.5 Ah	OVA34490, OVA34491	<b>OVA51019E</b>
 P118929	7.2 V, 1.5 Ah	OVA34495	<b>OVA51021E</b>

### Mounting dimensions

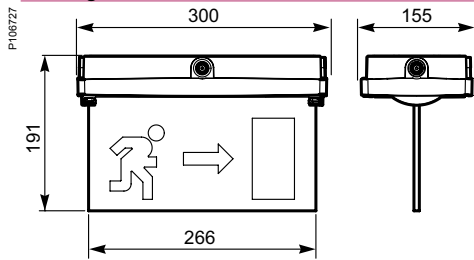
#### 6/11 W/LED



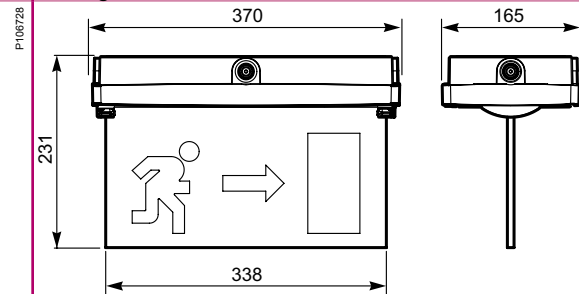
#### 8 W



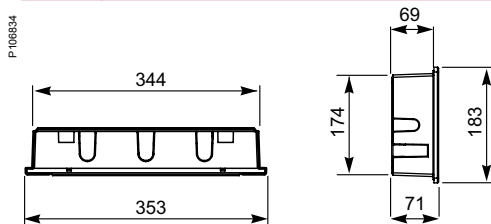
#### Vetosignal 6/11 W/LED



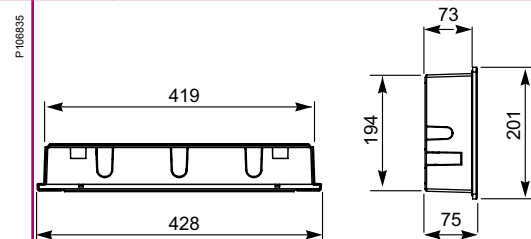
#### Vetosignal 8 W



#### Mounting box 6/11 W/LED alone

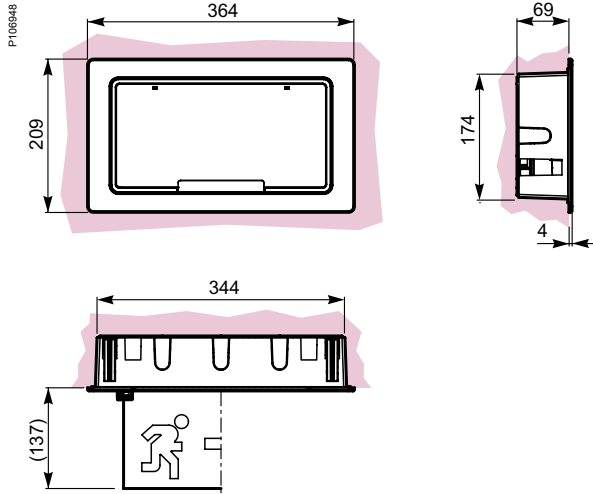


#### Mounting box 8 W alone

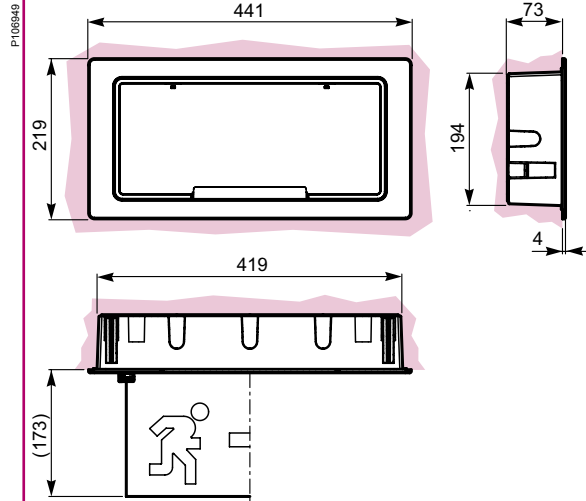


### Dimensions in installation

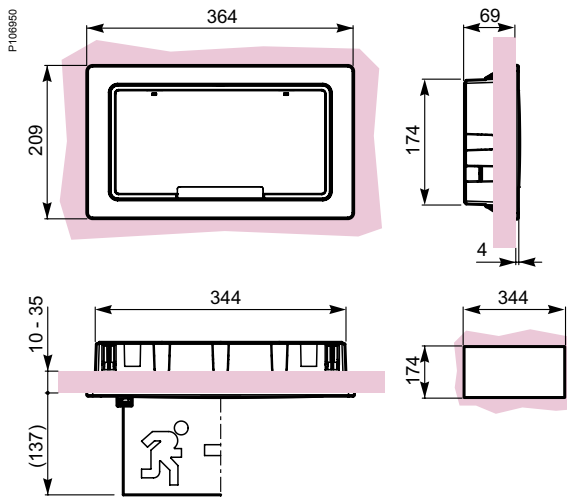
Recessed with recessed box 6/11 W/LED (Vetrosignal)



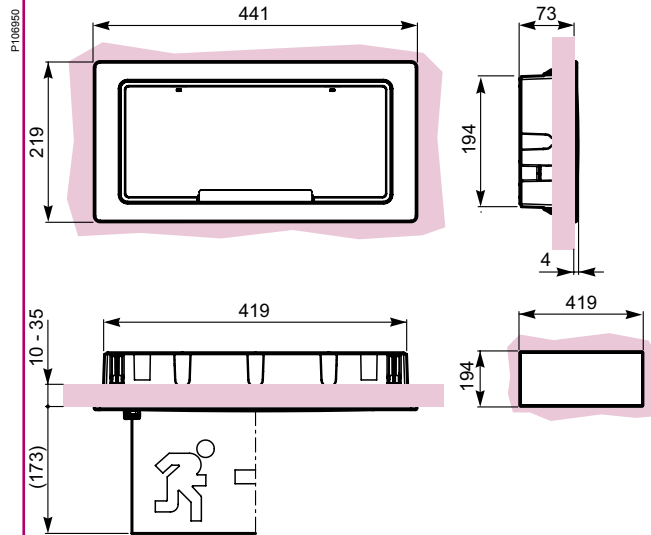
Recessed with recessed box 8 W (Vetrosignal)



Ceiling recessed with recessed box 6/11 W/LED (Vetrosignal)

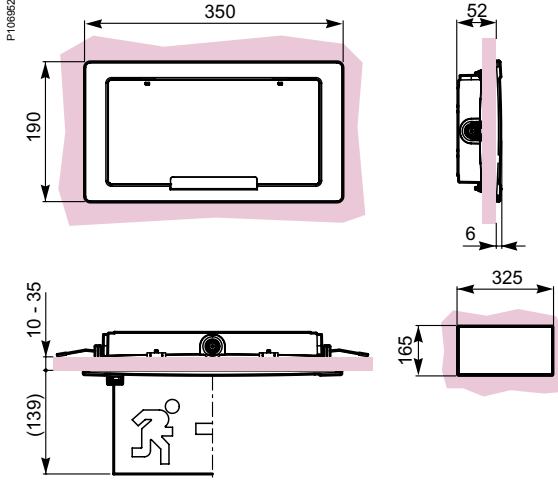


Ceiling recessed with recessed box 8 W (Vetrosignal)

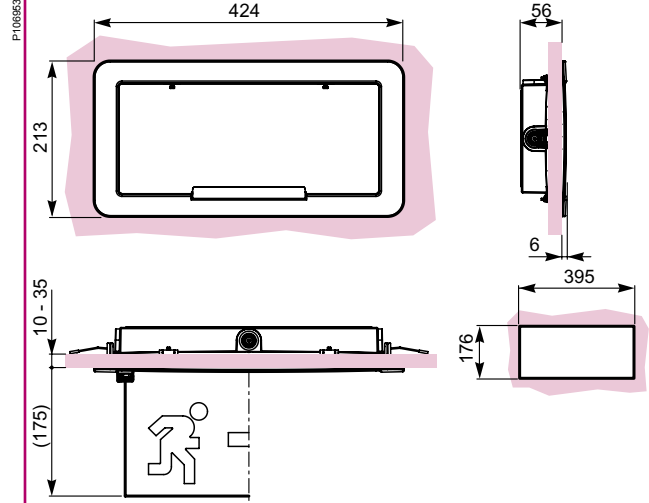


### Dimensions in installation

Ceiling recessed with frame with springs 6/11 W/LED (Vetrosignal)



Ceiling recessed with frame with springs 8 W (Vetrosignal)










P1008945


CE

### Technical specifications

- Available for maintained and non-maintained operation: the maintained products can be used in non-maintained mode. The selection is made on the connector.
- Installation: quick wall mounting
- Compliant with IEC EN 60598-2-22 standard
- ENEC certification (Belgium)
- Centralized control by Dardo Plus control unit
- Can be inhibited with rest mode via Dardo Plus control unit
- Protection rating: IP42, IK07
- Insulation class: II 
- Installation even on flammable surfaces
- Operating temperature: 0...40°C
- Fire behaviour (IEC 60695-2-10), incandescent wire: 850°C
- Case made from self-extinguishing polycarbonate 94V-2 (UL 94)
- Long-lasting LED light source (> 10 years expected in typical ambient temperature\* condition)
- Power supply: 230 V, 50 Hz
- Complete recharge: in 12 h for all models






(\*) Typical ambient temperature: 25°C.

### Product catalogue numbers



Exiway Class	Protection rating	IP	IK	Autonomy (h)	Average flux (lm) in		Lamp rated power (W)	Socket	Consumption		Ni-Cd battery		Glasses	Cat. no.
					emergency condition	maintained mode			N-M/M (VA)	(W)	(V)	(Ah)		
<b>LED</b>														
<b>Non-maintained</b>														
	IP42	IK07	1	100	-	6*	LED	4.8	0.8	3.6	1.6	Mineral	OVA34652	
				260	-	18*	LED	5.6	1.3	4.8	1.6	Mineral	OVA34660	
				425	-	24*	LED	5.6	1.3	4.8	4.0	Mineral	OVA34662	
				350	-	18*	LED	5.6	1.3	4.8	4.0	Mineral	OVA34665	
<b>Maintained</b>														
	IP42	IK07	1	100	100	6*	LED	4.6/8.5	0.9/4.3	3.6	1.6	Mineral	OVA34653	
				260	260	18*	LED	6.2/12.5	1.6/6.4	7.2	1.6	Mineral	OVA34661	
				100	100	6*	LED	4.9/9.8	1.0/4.3	3.6	2.5	Mineral	OVA34663	
				260	260	18*	LED	5.6/14	1.5/6.7	6.0	2.5	Mineral	OVA34664	

Note: The maintained products can be used in Non-maintained mode. \*: power equivalent to a fluorescent tube. The selection is made on the connector.

### Accessories catalogue numbers

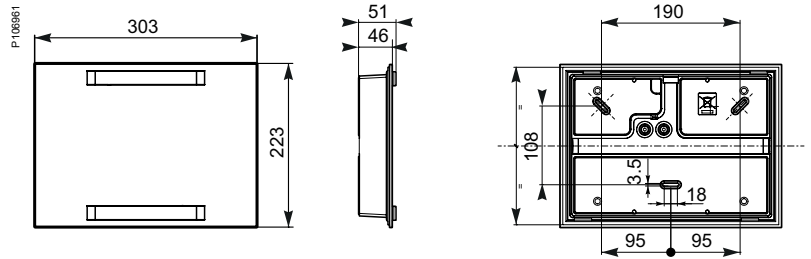
		Compatibility	Dimensions (mm) height x width x depth	Cat. no.
<b>Flush mounting box</b>		All	-	OVA53085
<b>Frame for complete recess (plastic frame, metallic frame, 6 screws)</b>		All	-	OVA53114
<b>Pictogram cover glass (serigraphied mineral glass)</b>	Right arrow 	All	-	OVA53121
	Left arrow 	All	-	OVA53122
	Down arrow 	All	-	OVA53123

### Spare parts catalogue numbers

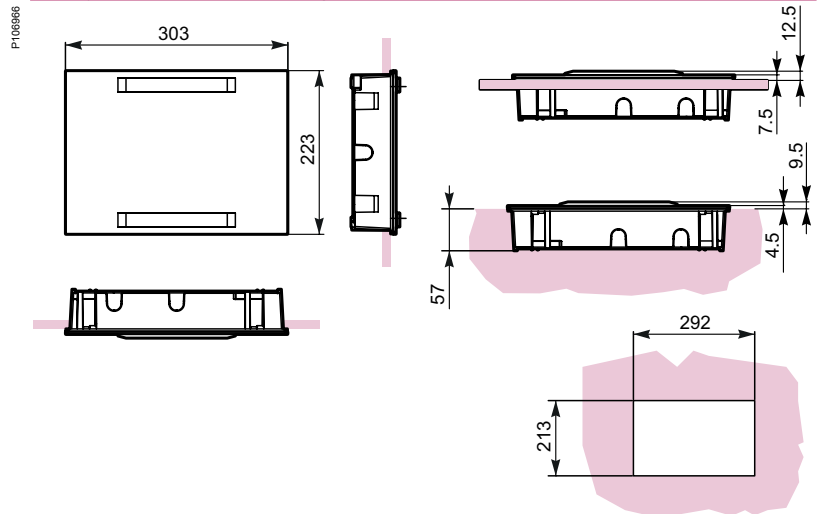
	Description	Compatibility	Cat. no.
<b>Batteries (Ni-Cd)</b> 	3.6 V, 1.6 Ah	OVA34652, OVA34653, OVA38557, OVA38558	OVA51013E
	3.6 V, 2.5 Ah	OVA34663	OVA51094
	4.8 V, 1.6 Ah	OVA34660, OVA38565	OVA51016E
	4.8 V, 4.0 Ah	OVA34662, OVA34665, OVA38567, OVA38568, OVA38570	OVA58994
	6.0 V, 2.5 Ah	OVA34664, OVA38569	OVA51054
	7.2 V, 1.6 Ah	OVA34661, OVA38566	OVA51056
<b>Cover glass</b> 	Transparent mineral glass	All	OVA51096

### Mounting dimensions

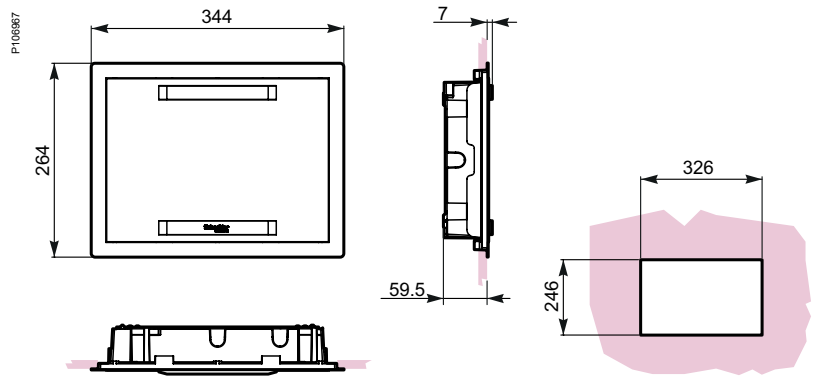
#### Exiway Class



#### Exiway Class with flush mounting box



#### Exiway Class with frames





P110304

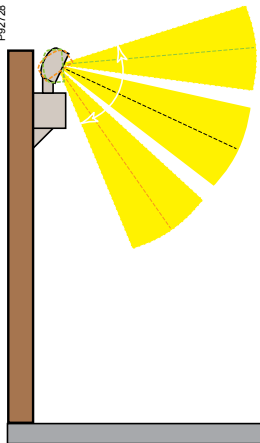


CE

### Technical Specifications

- Provided with 2 searchlights with halogen bulbs with high lighting performance (1500 lm)
- The searchlights rotate on their axis from 90° to 45° for pointing in any direction
- Non-maintained emergency luminaires
- Compliant with EN 60598-2-22 standard
- ENEC certification (Belgium)
- Centralized control by Dardo Plus control unit
- Can be inhibited with rest mode via Dardo Plus control unit
- Protection rating: IP65, IK08
- Insulation class: II
- Operating temperature: 0...30°C
- Fire behaviour (EN 60695-2-10), incandescent wire: 850°C
- Power supply: 230 V, 50 Hz
- Complete recharge in 24 h.

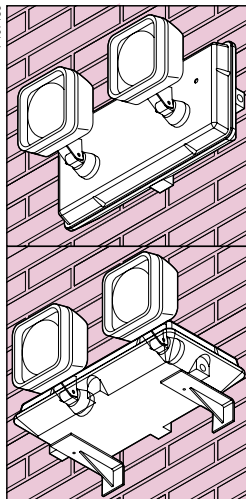
P92728



The searchlights are vertically and horizontally adjustable.

### Installation methods

P107183



**Wall (vertically)**  
(installation without accessories)

**Wall (horizontally)**  
(installation with support non provided)

# Guardian (cont.)

## Product, Accessory, Spare parts and Dimensions


### Product catalogue numbers

Guardian	Protection rating		Autonomy (h)	Average flux (lm)	Lamp rated power (W)	socket	Consumption (VA)	Ni-Cd battery		Weight (kg)	Cat. no.
	IP65	IK08	1	1500	2 x 55	GY6.35	33	2 x 12 V	7.2 Ah	7.50	OVA58324
<b>Non-maintained</b>											



P110304



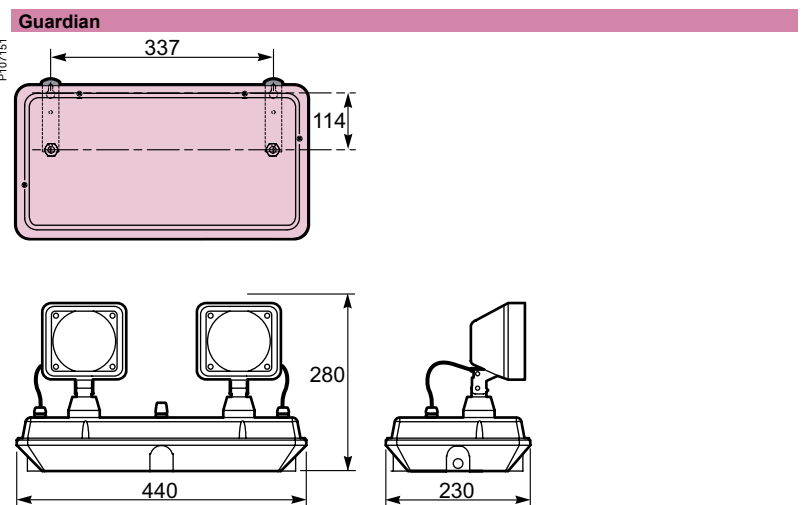
### Accessory catalogue numbers

	Dimensions (mm) height x width x depth	Cat. no.
<b>Protective grid (2 parts) IK10</b> 	104 x 95 x 35	OVA58970

### Spare parts catalogue numbers

	Description	Cat. no.
<b>Lamp</b> 	12 V, 50 W	OVA58992
<b>Pilot LED</b>	3 lm	OVA58990
<b>Battery (Ni-Cd)</b> 	12 V, 7.2 Ah	2 x OVA58996

### Mounting dimensions











CE

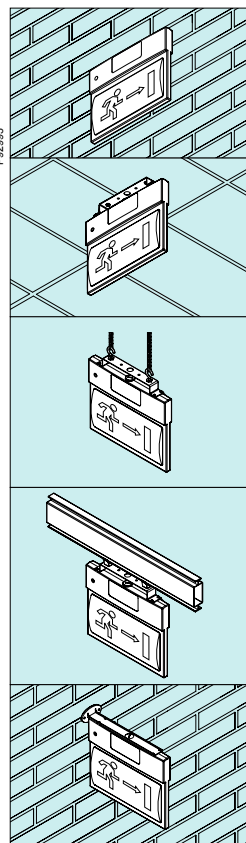
### Technical specifications

- Cold cathode light source (working life of 40,000 h)
- Ni-Cd battery for high efficiency applications
- Long life, no maintenance needed
- Compliant with IEC EN 60598-2-22 standard
- Visibility distance of the sign in compliance with the new EN 1838 standard: 24 m
- Emergency exit sign operating in maintained modes
- Centralized control by Dardo Plus control unit
- Can be inhibited with rest mode via Dardo Plus control unit
- 5 pictogram stickers included to create all single- and double-sided versions
- Bracket for flag installation included
- Protection rating: IP42, IK06 (wall mounting) or IK07 (other mountings)
- Class II Ⓜ
- Operating temperature: 0...40°C
- Fire behaviour (IEC 60695-2-10), incandescent wire: 850°C
- Power supply: 230 V, 50 Hz
- Complete recharge in 12 h for model with 1 h autonomy

### Installation methods



Astro Guida with accessories included



**Wall**  
(installation without accessories)

**Ceiling**  
(installation with kit not included)

**Hanging**  
(installation with kit not included)


**Electrified track**  
(installation with kit not included)

**Flag type bracket**  
(installation with accessories included)






Installation with flag type bracket (included)

### Emergency exit sign catalogue numbers


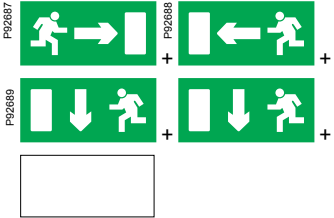
Astro Guida screens included	Protection rating		Visibility (m)	Autonomy (h)	Consumption (VA)	Ni-Cd battery		Weight (kg)	Cat. no.
	<b>Maintained</b>								
	<b>IP42</b>	<b>IK06*</b>	24	1	10	4.8 V	1.5 Ah	0.865	<b>OVA34757E</b>
				3	12	4.8 V	2.2 Ah	0.865	<b>OVA34758E</b>

\* IK07 when not wall mounted.

### Accessories catalogue numbers

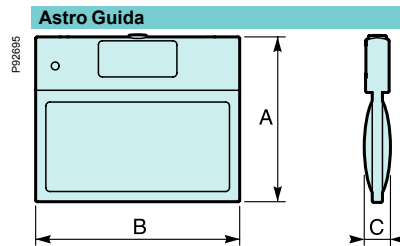
	Compatibility	Dimensions (mm) height x width x depth	Cat. no.
	All models		<b>OVA50356E</b>
	All models	248 x 296 x 53	<b>OVA50357E</b>
<b>For 1 or 2 sides signalling</b>			
		116 x 229	<b>OVA50281E</b>

### Spare parts catalogue numbers

		Cat. no.
Flag bracket	 <p>Part number: P922695</p>	OVA50355E
Pictogram sticker set (5 pictograms for all single- and double-sided versions)	 <p>Part numbers: P922697, P922696, P922698</p>	OVA50246E

### Mounting dimensions

Model	Dimensions (mm)		
	A	B	C
All	213	261	35







P93180

CE

### Technical specifications

- Long-lasting LED light source (> 50,000 h)
- Installation: quick mounting on wall, ceiling or flag
- Can be installed in false ceiling (with kit not included)
- Exit sign screens easy to install in precise position
- Compliant with IEC EN 60598-2-22 standard
- Visibility distance of the sign in compliance with the new EN 1838 standard: 28 m
- Emergency exit sign operating in maintained modes
- Centralized control by Dardo Plus control unit
- Can be inhibited with rest mode via Dardo Plus control unit
- Brackets for wall/flag installation included
- Protection rating: IP40, IK07
- Class II Ⓜ
- Operating temperature: 0...40°C
- Fire behaviour (IEC 60695-2-10), incandescent wire: 850°C
- Power supply: 230 V, 50 Hz
- Complete recharge in 12 h for model with 1 h autonomy

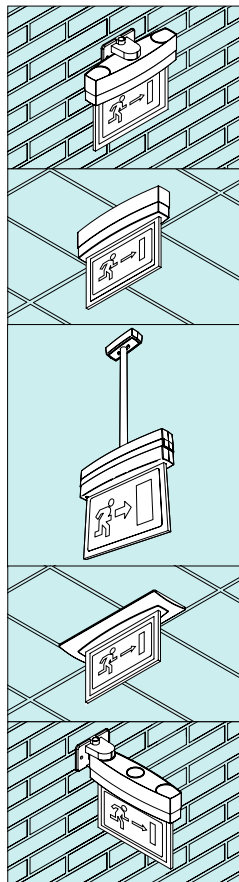
### Installation methods



P92986

P93010

Quick fix installation with wall / flag type bracket (included)



P108342

**Wall**  
(installation with accessories included)

**Ceiling**  
(installation without accessories)

**Hanging**  
(installation with kit not included)

**False ceiling**  
(installation with kit not included)


**Flag type bracket**  
(installation with accessories included)




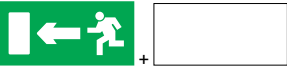










P108343

Installation with false ceiling mounting kit (not included)

### Emergency exit sign catalogue numbers

Quick Signal screens not included	Protection rating	Visibility (m)	Autonomy (h)	Consumption (VA)	Ni-Cd battery	Weight (kg)	Cat. no.	
	<b>Dardo Plus version</b>							
	<b>Maintained</b>							
	IP40	IK07	28	1	8.5	4.8 V	0.6 Ah	0.80
			3	8.5	4.8 V	1.5 Ah	0.80	OVA34512E



### Exit sign screen catalogue numbers

	Dimensions (mm) height x width	Cat. no.
<b>STD for 1 side signalling</b>		
	135 x 232	OVA50319E
	135 x 232	OVA50320E
	135 x 232	OVA50321E
<b>STD for 2 sides signalling</b>		
	135 x 232	OVA50322E
	135 x 232	OVA50323E
<b>STD for 1 or 2 sides signalling</b>		
	135 x 232	OVA50324E
	135 x 232	OVA50302E
<b>ISO for 1 side signalling</b>		
	135 x 232	OVA53124
	135 x 232	OVA53125
<b>ISO for 1 or 2 sides signalling</b>		
	135 x 232	OVA53126
	135 x 232	OVA53127
	135 x 232	OVA53128



# Quick Signal (cont.)

## Spare parts and Dimensions

### Accessories catalogue numbers

	Compatibility	Dimensions (mm) height x width x depth	Cat. no.
<b>False ceiling mounting kit</b>  <p>P88732</p>	All models	97 x 324 x 85	<b>OVA50318E</b>
<b>Hanging kit</b>  <p>P101263</p>	All models		<b>OVA50314E</b>

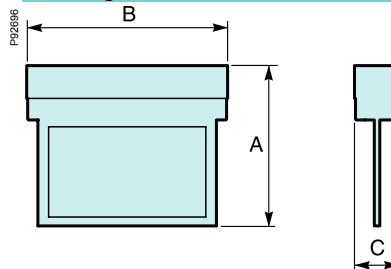
### Spare parts catalogue numbers

	Description	Compatibility	Cat. no.
<b>Batteries (Ni-Cd)</b>  <p>P101302</p>	4.8 V, 0.6 Ah	OVA34511E	<b>OVA51014E</b>
	4.8 V, 1.5 Ah	OVA34512E	<b>OVA51015E</b>
<b>Wall / flag type bracket</b>  <p>P101235</p>		All models	<b>OVA50316E</b>

### Mounting dimensions

Model	Dimensions (mm)		
	A	B	C
All	235	290	60

### Quick Signal









Lys-W, wall mounted



Lys-FL, flag mounted



Lys-F, flush mounted



Lys-C, hanging







### Technical specifications








- Long-lasting LED light source (80,000 hours' continuous operation)
- Polymethacrylate (PMMA) screen
- Lamp body in epoxy powder coated steel
- Compliance with the IEC EN 60598-2-22 standard
- Glow wire tests as per IEC 695-2-1 IEC 50-11
- Devices provided with rest mode (IEC EN 60598-2-22)
- Sign visibility distance 25 or 30 m in compliance with UNI EN 1838 standard
- Centralized control by Dardo Plus control unit
- Can be inhibited with rest mode via Dardo Plus control unit
- Autonomy of 1 h or 3 h
- Permanent operation
- Ni-Cd battery
- Complete recharging in 12 h for 1 h models
- Power supply 230 V 50 Hz
- Power consumption 10 VA
- Working temperature 0 to +40°C
- Possibility of turning off the permanent operation line by switch
- Wall, flag, false ceiling or ceiling mounted
- Single-faced and double-faced signage screens
- These products are sold without screen. Please choose a screen to get a complete product

### Emergency exit sign catalogue numbers


■ These products are sold without screen. Please choose a screen to get a complete product

Lys without screen	Autonomy (h)	Consumption (VA)	Ni-Cd battery		Weight (kg)	Cat. no.
<b>Lys-W</b> 	<b>Maintained / non-maintained (depending on the wiring)</b>					
	1	10	4.8 V	1.5 Ah	1.3	<b>OVA34519</b>
	3	10	4.8 V	2.2 Ah	1.3	<b>OVA34520</b>
<b>Lys-FL</b> 	1	10	4.8 V	1.5 Ah	1.6	<b>OVA34517</b>
	3	10	4.8 V	2.2 Ah	1.6	<b>OVA34518</b>
<b>Lys-F</b> 	1	10	4.8 V	1.5 Ah	1.3	<b>OVA34515</b>
	3	10	4.8 V	2.2 Ah	1.3	<b>OVA34516</b>
<b>Lys-C</b> 	1	10	4.8 V	1.5 Ah	1.3	<b>OVA34513</b>
	3	10	4.8 V	2.2 Ah	1.3	<b>OVA34514</b>

### Accessories

Screens for all Lys versions	Signage	Visibility (m)	Dimensions (mm) height x width x depth	Cat. no.
<b>1-side signage</b>				
		25	127 x 271 x 10	<b>OVA53048</b>
		30	150 x 271 x 10	<b>OVA53153</b>
		25	127 x 271 x 10	<b>OVA53047</b>
		30	150 x 271 x 10	<b>OVA53152</b>
		25	127 x 271 x 10	<b>OVA53046</b>
		30	150 x 271 x 10	<b>OVA53151</b>
<b>2-sides signage</b>				
		25	127 x 271 x 10	<b>OVA53050</b>
		30	150 x 271 x 10	<b>OVA53155</b>
		25	127 x 271 x 10	<b>OVA53049</b>
		30	150 x 271 x 10	<b>OVA53154</b>

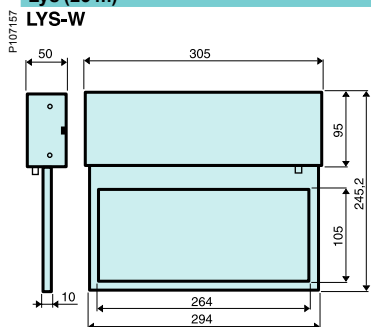
### Spare parts catalogue numbers

		Description	Compatibility	Cat. no.
Batteries (Ni-Cd)	 P118929	4.8 V, 1.6 Ah	OVA38077, OVA38079, OVA38081, OVA38083	<b>OVA51050</b>
		4.8 V, 2.2 Ah	OVA38078, OVA38080, OVA38082, OVA38084	<b>OVA51051</b>

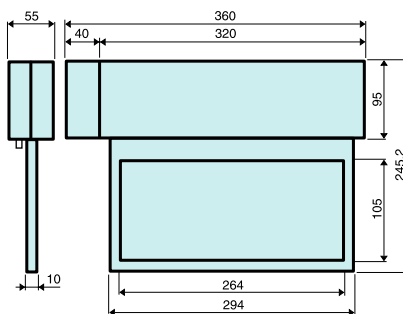
### Mounting dimensions

#### Lys (25 m)

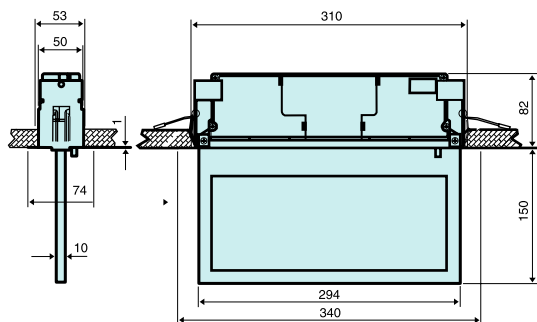
LYS-W



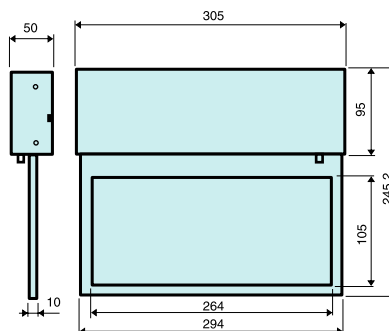
LYS-FL



LYS-F

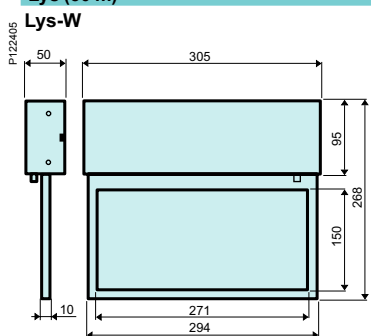


LYS-C

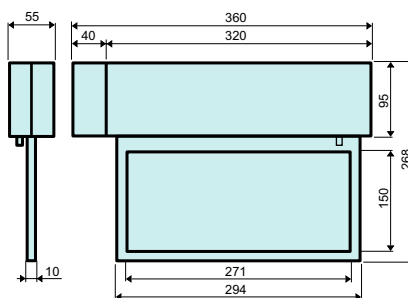


#### Lys (30 m)

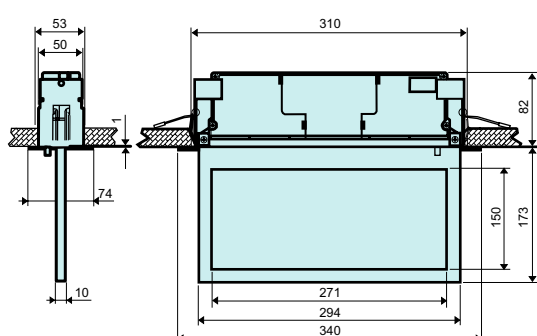
Lys-W



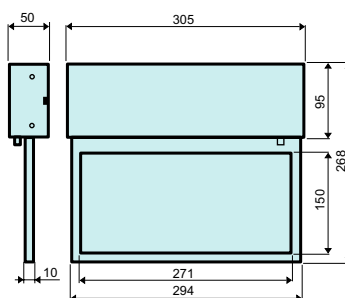
Lys-FL



Lys-F



Lys-C





# Evx Power T5 AC

## Addressable version



CE

### Technical specifications

- Warning: Trained personnel must be used to install these products
- Suitable for fluorescent tubes up to 80 W
- Fully compatible with both electromagnetic and electronic ballasts
- Quick-connect terminal strips
- Compliant with EN 61347-2-7 standard
- Addressable by Dardo Plus control unit
- Can be inhibited with rest mode via Dardo Plus control unit
- Fire behaviour (IEC 60695-2-10), incandescent wire: 850°C
- Class II
- Power supply: 230/240 V, 50/60 Hz ± 10 %
- AC output current
- 1 and 3 hours duration
- Mains presence indicator (LED)
- Ni-Cd battery, in line
- Complete recharge in 12 h for 1 h autonomy, 24 h for 3 h autonomy

Tubes			% emergency flux <sup>(1)</sup> and duration according to the conversion kit		
Socket	Lamp		OVA34243	OVA34244	OVA34245
G5	14 W	FHO T5	8.4% / 4 h	-	-
	24 W	FHO T5	-	-	9.0% / 3.5 h
	35 W	FHE T5	6.3% / 3 h	-	-
	80 W	FHO T5	-	6.7% / 1 h	3.9% / 3 h
G13	58 W	-	-	5.0% / 1.5 h	3.0% / 3.5 h
G24q-3	26 W	-	6.4% / 3.5 h	-	-
Gx24q-4	42 W	-	-	11.3% / 1.5 h	8.2% / 3 h

(1) In emergency mode, the luminaire powered by the kit provides a percentage of its nominal flux (typically around 10 %).

### Dimensions (mm)

Model	Dimensions (mm)							
	Circuit				Battery			
	A	B	C	D	E	F	G	H
OVA34243	235	28	220	41	325	39	335	33.5
OVA34244	235	28	220	41	325	39	335	33.5
OVA34245	235	28	220	41	485	39	495	33.5

### Conversion kits

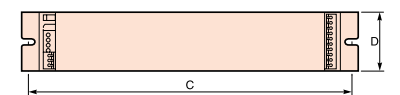
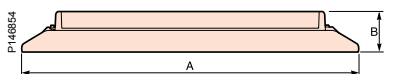
Evx Power T5 AC	Mains load (VA)	Ni-Cd battery in line	Weight (kg)	Cat. no.
<b>Dardo Plus version</b>				
<b>Maintained and non-maintained</b>				
	10.8	6.0 V 4.5 Ah	0.9	OVA34243
	10.8	6.0 V 4.5 Ah	0.9	OVA34244
	10.8	6.0 V 7.0 Ah	1.2	OVA34245

### Spare parts catalogue numbers

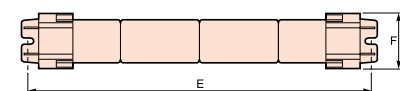
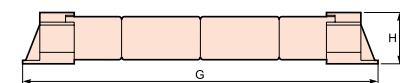
	Compatibility	Cat. no.
<b>Ni-Cd batteries</b> 	6.0 V - 4.5 Ah	OVA51046E
	6.0 V - 4.5 Ah	OVA51074
	6.0 V - 7.0 Ah	OVA51033E
<b>LED</b> 	All models	OVA51033E



Quick-disconnect terminal strips



Circuit



Batteries



# Design

## Emergency light fittings spacing table

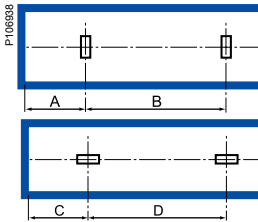
	See spacing table number
<b>OVA34336</b>	
OVA34336 .....	OVA34336
OVA34337 .....	OVA34336
OVA34338 .....	OVA34336
OVA34339 .....	OVA34336
OVA34340 .....	OVA34340
OVA34341 .....	OVA34340
OVA34342 .....	OVA34340
OVA34343 .....	OVA34340
OVA34344 .....	OVA34444
OVA34345 .....	OVA34344
OVA34346 .....	OVA34344
OVA34347 .....	OVA34347
OVA34348 .....	OVA34348
OVA34349 .....	OVA34340
OVA34390 .....	OVA34390
OVA34391 .....	OVA34390
OVA34392 .....	OVA34392
<b>OVA34490</b>	
OVA34490 .....	OVA34490
OVA34491 .....	OVA34491
OVA34492 .....	OVA34492
OVA34493 .....	OVA34492
OVA34494 .....	OVA34494
OVA34495 .....	OVA34495
OVA34496 .....	OVA34496
<b>OVA34652</b>	
OVA34652 .....	OVA34652
OVA34653 .....	OVA34652
OVA34660 .....	OVA34660
OVA34661 .....	OVA34660
OVA34662 .....	OVA34662
OVA34663 .....	OVA34652
OVA34664 .....	OVA34660
OVA34665 .....	OVA34665



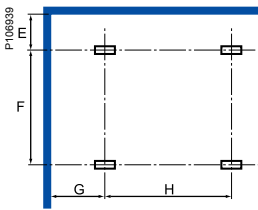
# Design (cont.)

## Emergency light fittings spacing table

**Escape routes**



**Open (Anti-Panic) areas**



A and E: Transversal spacing to wall  
 B and F: Transversal spacing between luminaires  
 C and G: Axial spacing to wall  
 D and H: Axial spacing between luminaires

Catalogue number	Installation height for ceiling mounting (m)	Lux level directly under luminaires (lux)	Escape routes 1 Lux min. Along centreline				Area covered to obtain more than 1 Lux on the ground (m <sup>2</sup> )	Open (Anti-Panic) areas 0.5 Lux min. Luminaires arranged in a regular array				Area covered to obtain 0.5 Lux on the ground (m <sup>2</sup> )
			A	B	C	D		E	F	G	H	
			(m)	(m)	(m)	(m)		(m)	(m)	(m)	(m)	
<b>OVA34336</b>	2.00	4.74	3.46	8.44	1.88	4.85	20.05	4.49	4.66	2.67	2.98	53.76
OVA34337	2.50	3.03	3.92	9.62	1.87	5.16	15.04	4.93	5.36	2.61	3.22	56.92
OVA34338	2.80	2.42	4.07	10.22	1.78	5.25	14.28	5.13	5.68	2.53	3.36	52.36
OVA34339	3.00	2.11	4.13	10.56	1.71	5.29	26.78	5.25	5.95	2.47	3.44	41.36
	3.50	1.55	3.82	11.15	1.50	5.18	27.43	5.28	6.45	2.38	3.59	48.81
	3.80	1.31	2.40	11.16	1.23	5.03	26.82	4.03	9.15	2.32	4.93	53.07
	4.00	1.18	1.05	11.28	1.02	4.90	24.10	3.40	9.69	3.30	5.16	54.89
<b>OVA34340</b>	2.00	11.87	4.44	10.22	2.65	6.56	68.34	5.28	5.73	3.36	3.96	112.98
OVA34341	2.50	7.60	5.07	11.57	2.83	7.11	73.04	5.97	6.60	3.55	4.36	125.66
OVA34342	2.80	6.06	5.38	12.36	2.90	7.40	76.17	6.38	7.02	3.67	4.61	130.91
OVA34343	3.00	5.28	5.64	12.94	2.92	7.54	48.79	6.63	7.33	3.67	4.70	68.13
OVA34349	3.50	3.88	6.12	14.19	2.91	7.88	57.64	7.20	8.15	3.69	4.99	81.82
	3.80	3.29	6.32	14.92	2.92	8.01	64.15	7.50	8.53	3.73	5.13	96.80
	4.00	2.97	6.46	15.37	2.88	8.07	68.28	7.67	8.88	3.69	5.21	104.43
	4.20	2.69	6.59	15.80	2.86	8.11	77.41	7.82	9.11	3.68	5.28	135.14
	4.50	2.34	6.73	16.40	2.78	8.18	69.29	8.08	9.54	3.63	5.41	138.57
	5.00	1.90	6.40	17.32	2.60	8.17	61.36	8.36	10.14	3.70	5.55	139.46
	5.50	1.57	6.11	18.04	2.33	8.10	54.00	8.64	10.68	3.61	5.70	153.00
	6.00	1.32	6.21	18.57	1.95	7.94	40.17	9.07	11.28	3.19	5.74	155.31
<b>OVA34344</b>	2.00	17.95	4.95	11.79	3.30	7.98	87.69	5.62	6.86	3.91	4.79	137.23
OVA34345	2.50	11.49	5.55	13.38	3.54	8.71	62.78	6.29	7.69	4.19	5.32	93.42
OVA34346	2.80	9.16	5.94	14.04	3.65	9.10	76.70	6.80	8.25	4.37	5.58	112.04
	3.00	7.98	6.15	14.49	3.70	9.33	87.47	7.11	8.47	4.48	5.79	124.21
	3.50	5.86	6.72	15.54	3.79	9.86	100.23	7.95	9.24	4.70	6.15	150.34
	3.80	4.97	7.00	16.30	3.83	10.09	109.55	8.35	9.65	4.80	6.35	167.55
	4.00	4.49	7.22	16.77	3.86	10.19	105.92	8.61	9.90	4.84	6.49	174.94
	4.20	4.07	7.35	17.22	3.88	10.33	103.65	8.84	10.14	4.91	6.62	173.19
	4.50	3.55	7.64	18.05	3.91	10.45	103.93	9.19	10.47	4.95	6.76	183.76
	5.00	2.87	7.92	19.11	3.84	10.58	113.43	9.53	11.10	4.87	6.97	202.69
	5.50	2.37	8.00	20.15	3.71	10.72	105.75	9.79	11.66	4.81	7.20	220.50
	6.00	1.99	7.48	21.21	3.57	10.81	80.33	9.69	12.30	4.89	7.31	198.15
	7.00	1.47	4.72	22.41	2.90	10.74	51.02	7.74	13.45	4.94	7.47	229.61
	8.00	1.12	4.71	21.83	1.77	10.19	38.08	8.96	14.43	3.69	7.63	185.65
<b>OVA34347</b>	2.00	21.25	5.08	12.23	3.30	7.94	66.05	5.90	6.97	4.01	4.79	95.21
	2.50	13.60	5.62	13.74	3.60	8.75	79.96	6.52	7.93	4.37	5.32	117.15
	2.80	10.84	6.00	14.50	3.72	9.14	90.39	6.95	8.49	4.49	5.64	130.62
	3.00	9.45	6.22	15.05	3.81	9.42	95.73	7.25	8.84	4.63	5.79	141.92
	3.50	6.94	6.80	16.30	3.89	10.00	104.78	8.02	9.49	4.80	6.15	158.54
	3.80	5.89	7.15	16.98	3.97	10.27	112.78	8.52	9.90	4.95	6.42	174.00
	4.00	5.31	7.29	17.47	4.00	10.43	120.20	8.76	10.15	5.03	6.49	182.08
	4.20	4.82	7.50	17.92	4.02	10.51	120.71	9.01	10.40	5.06	6.69	192.87
	4.50	4.20	7.79	18.67	4.05	10.68	117.48	9.36	10.73	5.11	6.83	195.81
	5.00	3.40	8.16	19.85	4.05	10.91	122.73	9.79	11.23	5.11	7.11	210.12
	5.50	2.81	8.31	20.91	4.00	11.10	121.50	9.92	11.79	5.03	7.33	234.00
	6.00	2.36	8.26	21.88	3.82	11.24	120.50	10.03	12.44	4.91	7.51	243.67
	7.00	1.73	7.64	23.31	3.45	11.29	91.12	10.05	13.59	4.81	7.67	247.83
	8.00	1.33	5.30	23.18	2.75	11.00	57.12	9.11	14.58	4.98	7.90	252.30
	9.00	1.05	2.54	21.93	1.22	10.39	30.12	8.13	21.55	4.18	11.10	180.74
<b>OVA34348</b>	2.00	26.30	5.57	13.53	3.54	8.58	79.74	6.59	7.34	4.36	4.98	118.41
	2.50	16.83	6.19	15.17	3.85	9.50	99.48	7.13	8.44	4.63	5.58	142.25
	2.80	13.42	6.52	15.93	4.00	9.90	106.13	7.53	9.02	4.81	5.90	160.95
	3.00	11.69	6.74	16.49	4.09	10.19	114.47	7.74	9.51	4.90	6.12	166.02
	3.50	8.59	7.34	17.66	4.28	10.88	133.03	8.48	10.31	5.16	6.55	198.63
	3.80	7.28	7.71	18.36	4.33	11.16	139.63	9.02	10.88	5.29	6.83	208.37
	4.00	6.57	7.94	18.86	4.40	11.43	140.43	9.27	11.14	5.36	6.97	214.21
	4.20	5.96	8.15	19.33	4.46	11.56	141.70	9.50	11.38	5.43	7.10	228.30
	4.50	5.19	8.46	19.99	4.50	11.73	156.64	9.98	11.72	5.54	7.32	247.02
	5.00	4.21	9.02	21.21	4.58	12.13	163.64	10.63	12.38	5.65	7.60	264.05
	5.50	3.48	9.43	22.43	4.57	12.32	157.50	11.23	12.80	5.71	7.90	283.50
	6.00	2.92	9.70	23.68	4.56	12.65	166.02	11.63	13.48	5.74	8.08	289.19
	7.00	2.15	9.37	25.66	4.29	12.94	138.50	11.98	14.68	5.75	8.47	328.02
	8.00	1.64	8.88	27.16	3.86	12.96	114.25	12.02	15.87	5.50	8.71	323.70
	9.00	1.30	5.96	26.70	3.10	12.72	72.30	10.54	16.93	5.72	8.90	337.39
	10.00	1.05	5.77	25.95	1.58	12.02	44.63	12.62	18.04	3.83	9.06	267.77
<b>OVA34390</b>	2.00	20.17	4.71	11.79	3.43	8.25	58.61	5.26	7.46	3.97	4.91	89.55
OVA34391	2.80	10.29	5.56	13.70	3.82	9.46	74.64	6.21	8.25	4.43	5.77	116.63
	3.00	8.96	5.70	14.05	3.91	9.70	81.00	6.33	8.36	4.50	5.98	123.17
	3.50	6.59	6.00	15.01	4.03	10.23	81.09	6.73	8.89	4.68	6.41	138.50
	4.00	5.04	6.22	15.79	4.14	10.62	90.45	6.96	9.42	4.81	6.76	149.95
	4.50	3.98	6.37	16.49	4.16	11.02	88.87	7.16	9.99	4.85	7.03	165.68
	5.00	3.23	6.34	17.06	4.16	11.21	83.68	7.19	10.60	4.89	7.31	161.78
	5.50	2.67	6.16	17.44	4.11	11.39	85.50	7.16	11.03	4.94	7.47	180.00
	6.00	2.24	5.95	17.54	3.97	11.54	69.62	7.18	11.55	4.96	7.82	174.05
	6.50	1.91	5.75	17.58	3.75	11.55	69.14	7.22	13.05	4.89	8.76	169.70
	7.00	1.65	5.52	17.38	3.49	11.44	72.89	7.25	14.54	4.77	9.65	167.65



# Design (cont.)

## Emergency light fittings spacing table

Catalogue number	Installation height for ceiling mounting (m)	Lux level directly under luminaires (lux)	Escape routes 1 Lux min. Along centreline				Area covered to obtain more than 1 Lux on the ground (m <sup>2</sup> )	Open (Anti-Panic) areas 0.5 Lux min. Luminaires arranged in a regular array				Area covered to obtain 0.5 Lux on the ground (m <sup>2</sup> )	
			A	B	C	D		E	F	G	H		
			(m)	(m)	(m)	(m)		(m)	(m)	(m)	(m)		
<b>OVA34392</b>	2.00	31.04	4.95	12.04	3.61	8.99	71.11	5.47	7.34	4.13	5.11	101.75	
	2.50	19.86	5.55	13.38	3.92	9.92	85.54	6.11	8.05	4.47	5.72	125.98	
	2.80	15.84	5.87	14.13	4.11	10.37	94.47	6.40	8.37	4.63	6.04	139.37	
	3.00	14.46	6.08	14.76	4.21	10.66	99.74	6.69	8.84	4.78	6.26	147.27	
	4.00	8.14	6.79	17.06	4.56	11.86	121.39	7.54	10.03	5.23	7.12	189.22	
	5.00	5.21	7.21	18.71	4.74	12.69	135.74	8.19	11.23	5.56	7.75	225.00	
	6.00	3.62	7.48	19.78	4.86	13.27	131.21	8.71	12.17	5.84	8.31	232.96	
	6.50	3.08	7.48	20.21	4.81	13.40	138.27	8.92	12.62	5.91	8.53	248.26	
	7.00	2.66	7.51	20.56	4.77	13.58	127.56	9.02	13.03	5.91	8.70	269.70	
	7.50	2.31	7.43	20.84	4.69	13.75	112.96	9.15	13.39	5.95	8.84	259.40	
	8.00	2.03	7.33	21.04	4.53	13.73	109.49	9.29	13.58	5.93	9.02	257.06	
	8.50	1.80	7.07	21.18	4.28	13.77	107.48	9.32	14.17	5.84	9.30	263.32	
	9.00	1.61	6.78	21.36	4.01	13.75	96.40	9.41	14.43	5.77	9.42	265.09	
	9.50	1.44	6.35	21.29	3.60	13.62	53.70	9.44	14.97	5.57	9.82	281.94	
	10.00	1.30	5.77	21.26	3.11	13.49	52.07	9.46	15.48	5.32	10.09	230.58	
10.50	1.18	4.95	21.00	2.38	13.25	32.80	9.64	15.19	4.89	9.92	221.41		
11.00	1.08	3.26	20.79	1.16	12.96	0.00	10.00	14.88	3.87	9.65	216.00		
<b>OVA34490</b>	2.00	12.83	3.76	9.61	2.91	7.18	38.98	4.27	5.57	3.42	4.24	61.88	
	2.80	6.55	4.27	10.94	3.19	8.15	47.82	4.90	6.60	3.79	4.95	77.56	
	3.00	5.70	4.37	11.23	3.22	8.33	50.88	5.04	6.82	3.85	5.10	80.33	
	3.50	4.19	4.56	11.89	3.29	8.68	50.11	5.27	7.18	3.94	5.45	93.85	
	4.00	3.21	4.56	12.44	3.27	9.00	52.36	5.41	7.65	4.02	5.82	96.40	
	4.50	2.54	4.35	12.80	3.18	9.12	51.21	5.41	9.31	4.09	7.03	102.42	
	5.00	2.05	4.20	12.92	3.03	9.24	44.63	5.46	10.41	4.09	7.77	102.27	
	5.50	1.70	4.00	12.88	2.80	9.23	45.00	5.50	11.55	4.01	8.53	99.00	
	6.00	1.43	3.64	12.65	2.45	9.13	26.78	5.52	12.66	3.88	9.23	99.07	
	6.50	1.22	3.14	12.34	1.93	8.89	25.14	5.62	12.94	3.64	9.30	94.28	
	7.00	1.05	2.07	12.06	0.98	8.58	3.64	5.85	12.59	3.04	8.98	87.47	
	<b>OVA34491</b>	2.00	14.50	3.97	9.60	3.08	7.48	40.76	4.31	5.65	3.46	4.45	62.48
		2.80	7.40	4.35	11.30	3.40	8.58	44.90	4.61	6.68	3.71	5.22	80.47
		3.00	6.44	4.28	11.65	3.45	8.81	45.52	4.59	7.53	3.79	5.87	79.66
		3.50	4.73	4.32	12.07	3.53	9.25	47.38	4.71	9.08	3.94	7.03	89.29
4.00		3.62	4.29	12.09	3.57	9.53	48.79	4.81	10.77	4.09	8.26	91.64	
4.50		2.86	4.20	12.05	3.55	9.82	48.20	4.82	12.58	4.15	9.47	102.42	
5.00		2.32	4.05	12.19	3.44	9.91	39.05	4.81	13.14	4.16	9.88	96.69	
5.50		1.92	3.78	12.11	3.24	9.99	36.00	4.79	13.51	4.17	10.33	99.00	
6.00		1.61	3.50	11.90	2.99	9.98	32.13	4.79	13.91	4.17	11.10	96.40	
6.50		1.37	3.14	11.65	2.59	9.89	18.86	4.78	14.38	4.04	11.73	100.56	
7.00		1.18	2.38	11.29	2.01	9.67	14.58	4.60	14.77	3.97	11.96	83.83	
<b>OVA34492</b>		2.00	27.54	4.66	11.30	3.72	8.93	60.69	5.04	6.65	4.13	5.25	85.69
		2.80	14.05	5.50	13.44	4.27	10.37	78.14	5.77	7.80	4.60	6.19	120.71
		3.00	12.24	5.70	13.89	4.37	10.71	78.32	5.91	8.13	4.64	6.41	127.19
		3.50	8.99	6.00	14.93	4.56	11.42	84.74	6.15	8.77	4.79	6.92	144.87
	4.00	6.89	5.93	15.87	4.73	12.03	82.12	6.14	9.56	5.00	7.54	154.71	
	4.50	5.44	5.92	16.40	4.83	12.50	90.37	6.19	11.77	5.14	9.19	165.68	
	5.00	4.41	5.96	16.65	4.91	12.86	91.12	6.33	13.44	5.31	10.36	172.93	
	5.50	3.64	5.95	16.62	4.91	13.11	94.50	6.45	14.91	5.41	11.47	173.25	
	6.00	3.06	5.84	16.59	4.90	13.45	88.36	6.49	16.24	5.52	12.33	182.08	
	6.50	2.61	5.70	16.71	4.81	13.58	91.13	6.47	17.62	5.54	13.35	188.55	
	7.00	2.25	5.52	16.76	4.72	13.76	72.89	6.41	18.19	5.55	13.72	185.88	
	<b>OVA34494</b>	3.00	15.10	6.15	14.85	4.71	11.65	96.40	6.18	11.15	4.85	8.58	147.27
		4.00	8.49	6.79	16.96	5.12	13.05	119.01	6.98	12.72	5.38	9.82	190.41
		5.00	5.44	7.28	18.42	5.36	14.02	126.45	7.61	14.22	5.74	10.85	208.26
		6.00	3.78	7.54	19.58	5.45	14.69	117.82	8.13	14.91	6.02	11.32	257.06
6.50		3.22	7.61	20.02	5.41	14.95	138.27	8.28	16.29	6.03	12.34	251.41	
7.00		2.77	7.57	20.56	5.37	15.15	145.79	8.43	16.88	6.13	12.61	262.41	
7.50		2.42	7.50	20.84	5.25	15.26	133.88	8.58	17.08	6.16	12.84	284.50	
8.00		2.12	7.40	21.23	5.10	15.32	114.25	8.71	17.43	6.16	13.04	285.62	
8.50		1.88	7.26	21.37	4.91	15.31	107.48	8.82	17.74	6.12	13.20	236.45	
9.00		1.68	7.03	21.45	4.69	15.37	120.50	8.82	18.95	6.04	14.04	265.09	
9.50		1.51	6.78	21.48	4.33	15.25	80.55	8.94	18.94	5.89	13.94	295.36	
10.00		1.36	6.31	21.26	3.94	15.07	59.50	8.98	19.16	5.80	14.02	267.77	
10.50		1.23	5.52	21.18	3.36	14.98	65.60	8.94	20.05	5.63	14.58	295.21	
11.00		1.12	4.28	21.06	2.59	14.70	36.00	8.90	20.50	5.59	14.81	216.00	
11.50		1.03	1.46	20.71	1.26	14.37	0.00	7.49	24.13	6.52	17.32	236.08	
<b>OVA34495</b>	2.00	14.19	4.60	11.54	2.97	7.33	47.01	4.66	6.44	3.18	4.34	76.46	
	2.80	7.24	5.00	13.03	3.34	8.42	58.31	5.12	8.02	3.58	5.06	96.80	
	3.00	6.31	5.04	13.24	3.42	8.61	62.26	5.17	8.24	3.67	5.20	101.08	
	3.50	4.63	5.39	13.81	3.53	9.08	69.25	5.47	8.77	3.76	5.56	110.25	
	4.00	3.55	5.71	14.21	3.63	9.41	69.02	5.75	9.20	3.84	5.83	119.01	
	4.50	2.80	5.92	14.83	3.61	9.65	72.30	5.99	9.65	3.85	6.09	129.53	
	5.00	2.27	6.12	15.55	3.50	9.87	65.08	6.26	9.81	3.79	6.36	137.60	
	5.50	1.88	6.22	16.16	3.27	9.91	58.50	6.40	9.92	3.61	6.57	137.25	
	6.00	1.58	4.65	16.75	2.93	9.90	50.88	5.99	10.09	3.96	6.74	141.92	
	6.50	1.34	4.38	17.02	2.50	9.76	40.85	6.30	10.40	3.80	6.87	141.42	
	7.00	1.16	4.12	16.15	1.97	9.50	21.87	6.54	10.78	3.39	6.96	131.21	
	7.50	1.01	1.94	15.48	0.00	9.02	8.37	7.19	11.12	0.50	7.08	117.15	

# Design (cont.)

## Emergency light fittings spacing table

Catalogue number	Installation height for ceiling mounting (m)	Lux level directly under luminaires (lux)	Escape routes 1 Lux min. Along centreline				Area covered to obtain more than 1 Lux on the ground (m <sup>2</sup> )	Open (Anti-Panic) areas 0.5 Lux min. Luminaires arranged in a regular array				Area covered to obtain 0.5 Lux on the ground (m <sup>2</sup> )
			A	B	C	D		E	F	G	H	
			(m)	(m)	(m)	(m)		(m)	(m)	(m)	(m)	
<b>OVA34496</b>	2.80	12.18	6.07	15.72	3.85	9.80	85.72	6.74	8.75	4.46	5.84	140.54
	3.00	10.61	6.22	16.17	3.91	9.99	90.37	6.87	9.10	4.50	5.98	149.28
	3.50	7.79	6.38	16.91	4.06	10.48	94.76	7.13	10.02	4.72	6.48	156.72
	4.00	5.97	6.59	17.06	4.22	10.91	110.68	7.49	10.84	4.97	6.83	174.94
	4.50	4.71	6.86	17.38	4.27	11.21	114.47	8.16	11.28	5.27	7.10	188.27
	5.00	3.82	7.21	17.95	4.27	11.50	109.71	8.76	11.64	5.40	7.31	191.53
	5.50	3.16	7.50	18.58	4.22	11.74	126.00	9.42	12.07	5.52	7.54	211.50
	6.00	2.65	7.82	19.40	4.12	11.95	115.14	9.98	12.44	5.50	7.72	235.64
	6.50	2.26	8.03	20.22	3.94	12.02	106.85	10.40	12.49	5.37	7.93	219.98
	7.00	1.95	8.20	21.07	3.72	11.96	94.76	10.22	12.76	4.91	8.02	222.32
	7.50	1.70	8.26	21.64	3.42	11.93	96.23	10.31	12.86	4.56	8.16	234.30
	8.00	1.49	6.14	22.35	3.07	11.73	71.41	8.52	13.18	4.51	8.33	266.58
	8.50	1.32	5.47	22.88	2.60	11.58	42.99	8.38	14.42	4.25	9.00	231.08
	9.00	1.18	4.99	23.15	2.04	11.30	36.15	8.55	15.66	3.78	9.64	216.89
	9.50	1.06	4.63	22.65	0.96	10.86	20.14	9.10	14.08	2.28	8.45	194.67
	<b>OVA34652</b>	2.00	9.24	2.58	6.43	2.47	6.31	21.42	2.86	6.79	2.76	6.40
OVA34653	2.50	5.91	2.80	6.98	2.59	6.82	24.17	3.12	7.45	2.92	7.06	39.98
OVA34663	2.80	4.72	2.90	7.30	2.63	7.07	25.66	3.28	7.75	3.02	7.35	44.32
	3.00	4.11	2.95	7.48	2.65	7.22	26.78	3.35	7.99	3.07	7.59	42.84
	3.50	3.02	3.02	7.84	2.64	7.48	29.16	3.53	8.62	3.15	8.13	47.38
	4.00	2.31	3.01	8.21	2.52	7.63	23.80	3.68	9.04	3.16	8.54	51.17
	5.00	1.48	2.71	8.58	2.02	7.64	18.60	3.93	9.06	3.05	8.28	57.64
	6.00	1.03	0.95	8.52	0.52	7.14	0.00	4.18	8.67	2.53	7.71	53.55
<b>OVA34660</b>	2.00	24.02	3.50	8.58	3.36	8.34	37.49	3.56	8.68	3.44	8.25	57.12
OVA34661	2.50	15.37	3.81	9.40	3.67	9.16	45.56	3.89	9.73	3.76	9.19	69.73
OVA34664	2.80	12.25	3.96	9.80	3.82	9.65	51.32	4.06	10.14	3.93	9.71	74.64
	3.00	10.67	4.05	10.09	3.91	9.94	54.22	4.17	10.61	4.04	10.05	81.00
	3.50	7.84	4.28	10.73	4.06	10.48	54.67	4.45	11.23	4.24	10.78	90.20
	4.00	6.00	4.48	11.32	4.18	11.01	61.88	4.72	12.00	4.43	11.42	103.54
	5.00	3.84	4.74	12.24	4.27	11.71	63.22	5.13	13.13	4.67	12.54	111.57
	6.00	2.67	4.86	12.93	4.20	12.21	74.98	5.45	14.12	4.78	13.52	136.56
	6.50	2.27	4.85	13.29	4.06	12.29	62.85	5.62	14.83	4.78	13.96	131.99
	7.00	1.96	4.77	13.46	3.88	12.39	58.31	5.74	15.21	4.77	14.32	127.56
	7.50	1.71	4.64	13.69	3.66	12.37	62.76	5.90	14.10	4.75	13.16	133.88
	<b>OVA34662</b>	2.00	38.21	4.10	9.90	3.93	9.54	51.17	4.03	9.96	3.88	9.45
2.50	24.46	4.46	10.91	4.29	10.60	62.29	4.46	11.13	4.30	10.47	95.76	
2.80	19.50	4.71	11.48	4.48	11.11	69.39	4.66	11.70	4.46	11.18	100.30	
3.00	16.98	4.80	11.84	4.62	11.47	74.31	4.79	12.09	4.63	11.42	109.79	
3.50	12.48	5.09	12.56	4.86	12.19	80.18	5.11	13.12	4.91	12.44	123.92	
4.00	9.55	5.36	13.25	5.07	12.87	94.02	5.38	13.95	5.12	13.25	141.62	
5.00	6.11	5.80	14.48	5.36	13.89	102.27	5.89	15.38	5.48	14.67	163.64	
6.00	4.25	6.11	15.43	5.50	14.62	107.11	6.36	16.57	5.78	15.84	174.05	
6.50	3.62	6.22	15.84	5.50	14.95	100.56	6.57	17.25	5.87	16.36	188.55	
7.00	3.12	6.30	16.32	5.47	15.21	116.63	6.75	17.73	5.92	16.82	207.74	
7.50	2.72	6.29	16.59	5.40	15.33	121.33	6.88	18.44	5.97	17.35	217.56	
<b>OVA34665</b>	2.00	31.47	3.88	9.37	3.68	9.04	47.31	3.88	9.55	3.70	8.95	67.83
2.50	20.14	4.24	10.37	4.04	10.03	56.25	4.25	10.58	4.07	9.96	81.82	
2.80	16.06	4.44	10.87	4.23	10.53	62.98	4.44	11.21	4.25	10.59	94.47	
3.00	13.99	4.53	11.17	4.32	10.83	60.92	4.58	11.53	4.39	10.91	97.74	
3.50	10.28	4.82	11.88	4.56	11.48	72.89	4.86	12.52	4.63	11.74	110.25	
4.00	7.87	5.03	12.50	4.73	12.09	76.17	5.12	13.35	4.84	12.57	126.15	
5.00	5.04	5.41	13.58	4.96	12.97	92.98	5.62	14.69	5.19	13.88	148.76	
6.00	3.50	5.64	14.49	4.99	13.62	85.69	6.05	15.77	5.41	14.95	160.66	
6.50	2.98	5.70	14.89	4.94	13.82	100.56	6.20	16.28	5.44	15.45	166.56	
7.00	2.57	5.72	15.21	4.86	14.00	102.05	6.37	16.92	5.49	15.92	182.23	
7.50	2.24	5.70	15.53	4.73	14.11	83.68	6.53	17.42	5.50	16.26	175.72	





Screenshot of a software application interface on a laptop screen. The interface is divided into several panes:

- Left Pane:** A hierarchical tree view showing a project structure. The root is "Project", followed by "Tasks", "Resources", and "Gantt". Under "Tasks", there are sub-tasks like "Task 1", "Task 2", "Task 3", etc.
- Middle Pane:** A table with multiple columns, possibly representing task details or resource allocation. The columns include "Task Name", "Start", "End", "Duration", "Resources", and "Cost".
- Right Pane:** Another table, likely showing resource details or a different view of the project data.

The software interface is displayed on a dark-colored HP laptop. The man's hands are visible on the keyboard, and the overall scene is set in a bright, modern kitchen environment.

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