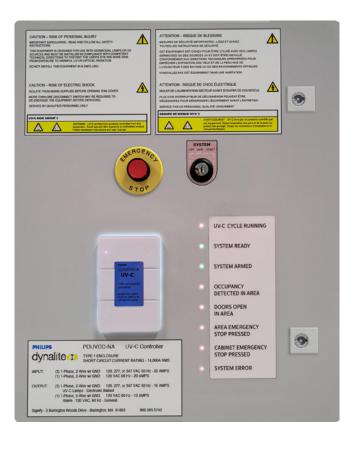
philips dynalite 🗘

Controls

PDUVCC-NA

UV-C control system relay controllers





Control solution for UV–C surface disinfection systems

The Philips Dynalite PDUVCC-NA control solution is a vital part of a properly designed and installed UV-C lighting system, that allows the system to be used and operated with greater safety than a system without an equivalent control solution in place.

This preconfigured solution incorporates switched outputs for driving Philips UV-C lamps and third-party audio alarms and warning lights. It also features an onboard settings interface, authorized key switch activation, lamp maintenance reporting, integrated Dynalite motion sensors, checkpoint buttons, and inputs for peripheral emergency shutoff buttons and area safeguard door switches.

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PDUVCC Control solution for UV-C surface disinfection

Features



- Single-box solution Assembled, programmed, and tested in the factory to provide complete out-of-the-box functionality.
- Integrated AntumbraDisplay Allows authorized users to adjust UV-C disinfecting dosage and monitor lamp life management. Includes multi-language support.
- Physical key switch protection Helps to ensure that only authorized users can modify settings or activate the system.
- External control inputs Robust, reliable connection to door switches, emergency shutoff buttons, and vacancy confirmation checkpoints.

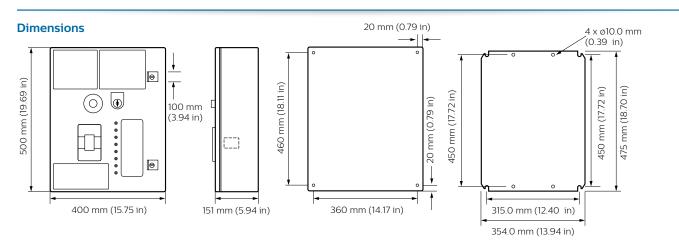
Motion sensor integration*

Designed to work with Dynalite's best-inclass network sensors to automatically shut down the UV lamps if motion is detected in the disinfection area.

System status indicators

Eight clearly labelled LEDs on the front of the enclosure show the device's status at a glance.

- Onboard event logging All system events are logged and timestamped for reporting.
- Ethernet connectivity Enables secure network access to configuration and event logs via System Manager head-end software.



Peripheral Devices

Devices peripheral to the PDUVCC-NA cabinet and Philips UV-C luminaires and lamps supplied separately.

Occupant warning alarm	Warns occupants that the UV-C lamp cycle is about to begin	Flashing lights, audio alarm, or any other warning devices as per local regulations	max 16 A, 120 VAC	
Emergency stop button (red)	Immediately stops the UV-C lamp cycle	Normally closed momentary push-button switch		
Door switch	Ensures that all doors to the UV-C area are closed before UV-C cycle can begin	Closed contact when door is closed.	Rated switching voltage: ≥ 24 VAC/DC Rated switching current: ≥ 0.5 A Minimum switching capacity: ≤ 10 mA @ ≤ 5 VAC/DC	
Checkpoint button (yellow)	Confirms that the authorised user has physically inspected the area for occupants before UV-C cycle can begin	Normally open momentary push-button switch		

* Sensors must not be relied on as a safety measure.

The authorized user must always perform a visual check of the area before starting the disinfection cycle.

PDUVCC Control solution for UV-C surface disinfection

Specifications

Electrical				
Cabinet Supply		240 VAC @ 20 A		
Switched UV-C Lamp Rating		See Output Ratings table below		
Switched Alarm Rating		See Output Ratings table below		
Peripheral Output		12 VDC @ 0.5 A (max)		
DyNet Output		12 VDC @ 0.5 A (Class 2)		
Electrical Protection		20 A (max) per input		
Short Circuit Current Rating (SCCR)		14,000 A		
IEC Overvoltage Cate	gory			
Control Serial Ports 1:	< RS-485, 1 x Etherne	t 10/100 baseT (Future provision)		
Supported Protocols		DyNet		
External Control Inpu		1-4 x Area checkpoint channel 1 x Door switch channel 1 x Emergency stop channel		
		kpoint channel (max 20 devices)		
Diagnostic Functions Device online/offline status, 28-day rolling event log User Controls 3-position key switch (Off. Armed. Start				
User Controls	3-position key switch (Off, Armed, Start) 6-button AntumbraDisplay Emergency Stop button			
Indicators	8 x status LI	ED, AntumbraDisplay LCD screen		
Output Ratings				
Load Type	UV-C Lam	ips Alarms		
Electronic Ballast	3 x single-p 16 A max @ 120 / 27 (500 A inru	77 / 347 VAC –		
General Use		12 A max, 120 VAC (single-phase only)		
Compliance				
Certification		UL/cUL		

Physical

Dimensions (H x W x D)	500 x 400 x 151 mm (19.69 x 15.75 x 5.94 in)
Packed Weight	PDUVCC-NA: 15.7 kg (34.6 lb) PDUVCC-NA-10: 19.8 kg (43.7 lb) PDUVCC-NA-20: 24.4 kg (53.8 lb) PDUVCC-NA-30: 26.6 kg (58.6 lb)
Construction	Steel wall mount enclosure Powder coat finish
Color	RAL7035 (Grey)
Serial Ports	1 x 5-way pluggable screw terminal 1 x RJ45 (future provision)
Serial Port Conductor Size	0.1-2.5 mm2 (28-12 AWG)
Supply Terminals	5 x spring cage clamp terminal
Supply Terminal Conductor Si	ze 0.5-6 mm2 (20-10 AWG) solid or stranded wire
Output Terminals	5 x spring cage clamp terminal
Output Terminal Conductor Si	ze 0.5-6 mm2 (20-10 AWG) solid or stranded wire
External Control Input Termin	als 1 x 9-way pluggable screw terminal 1 x 6-way pluggable screw terminal
External Control Input Termin	al Conductor Size 0.1-2.5 mm2 (28-12 AWG)
External Control Max Wiring D	Distance 75 m (82 yd) @ 0.75 mm2 (18 AWG)
Earth Bar Terminals	7 x screw terminal
Earth Bar Terminal Conductor	Size 2.1–21 mm2 (14–4 AWG)
Environment	
Operating Temperature	0° to 40°C ambient (32° to 104°F)
Storage/Transport Temperatu	re -25° to 60°C ambient (-13° to 140°F)
Relative Humidity	0 to 90% non-condensing
IP Rating	IP30 - Type 1 indoor use only (see PDUVCC-NA Installation Instructions)

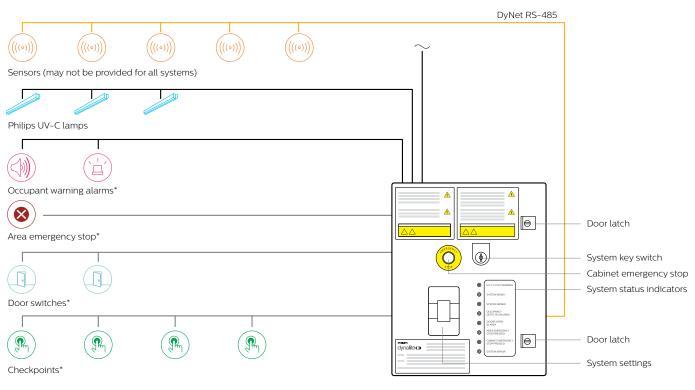
IP Rating	IP30 - Type 1 indoo
	(see PDUVCC-NA Installation In:
IEC Pollution Degree	

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Note: Due to continuous improvements and innovations, specifications may change without notice.

PDUVCC Control solution for UV-C surface disinfection

System Overview



* Peripheral devices and Philips UV-C luminaires & lamps supplied separately

Ordering Code

Ordering Code	Description	12NC	
PDUVCC-NA	UV-C Controller	912401425140	
PDUVCC-NA-10CS*	UV-C Controller + 10 Sensors	912401425147	
PDUVCC-NA-20CS*	UV-C Controller + 20 Sensors	912401425150	
PDUVCC-NA-30CS*	UV-C Controller + 30 Sensors	912401425153	
Auxiliary components			
PDUVCC-CPB-Y-FM	Philips Dynalite UVC yellow flush mount checkpoint station, single gang	912401425138	
PDUVCC-CPB-Y-SM	Philips Dynalite UVC yellow surface mount checkpoint station	912401425139	
PDUVCC-ESTOP-R-FM	Philips Dynalite UVC red flush mount E-Stop checkpoint station, single gang	912401425141	
PDUVCC-ESTOP-R-SM	Philips Dynalite UVC red surface mount E-Stop checkpoint station	912401425142	
PDUVCC-MAG SENSOR-1	Philips Dynalite UVC door sensor w/ actuator	912401425143	
PDUVCC-STROBE-120R	Philips Dynalite UVC red strobe light indicator	912401425144	

* Ensure that only the required number of sensors are installed for your space.

Remaining sensors can be kept as spares. Only install sensors supplied with the system.

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