

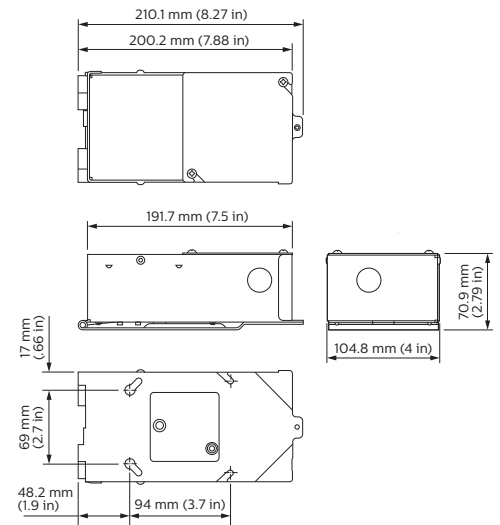


# CAPTIVATION 0-10V Relay Load Controller

Simplifies adding lighting controls to existing projects

The Philips Captivation family of products helps alleviate the often complex and cost-prohibitive hurdle of adding lighting controls to a facility. Captivation controllers can be used as stand alone circuit controllers with off-the-shelf switches, or networked with Philips Dynalite products into an area, building or campus-wide lighting system. The Captivation 0-V Relay Load Controller is rated for incandescent, magnetic low-voltage, electronic low-voltage, magnetic fluorescent driver and general purpose switching, including plug loads.

- Flexible control — Allows 16 A switching and/or 0-10V (ANSI C82.11) dimming control of any 120V and 277V lighting circuit.
- Control to the user — Utilizes user selectable standard dimming curves and custom user curves for maximum dimming operation across loads.
- Convenient mounting — Mounts on to any contractor supplied deep back box.
- Naturally ventilated — Integral ventilation means that no forced cooling is required, thereby reducing maintenance.
- 100% compliance — Accommodates 'free-air' or piped low voltage control wiring to meet with US and Canadian national code requirements.
- Three dry-contact inputs — Software configurable, allowing third-party devices to operate the Captivation controller in standalone mode, or to allow bridging of devices onto a DyNet network.
- UL924 — Programmable UL924 rated input on each device for emergency use.
- Motion sensor input — Included power supply allows for direct connection of a +24 VDC motion sensor or Dynalite sensor.
- User control selection — Via DyNet or DMX512.



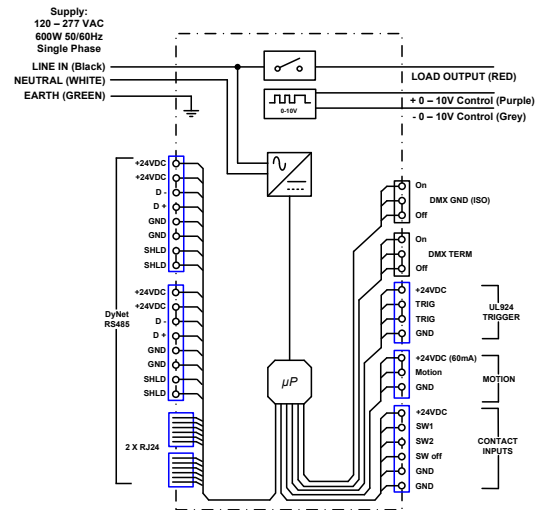
For detailed product information, please refer to the product information pages at [www.philips.com/lightingcontrolsna](http://www.philips.com/lightingcontrolsna).

# Specifications

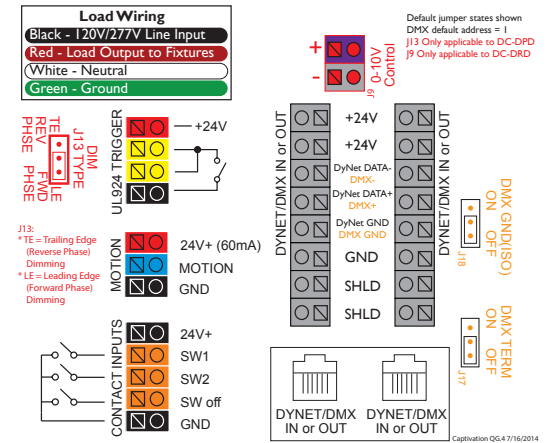
Due to continuous improvements and innovations, specifications may change without notice.

Item	Specification	Details
Electrical	Input Voltage	120 VAC and 277 VAC (+10% / -15%), 50 / 60 Hz, Dedicated Single Phase branch device. Max 20 A
	Power Supply Output	60 mA @ 24VDC for external device power 80 mA @ 24VDC for devices on the DyNet bus
	Output Load Control	Relay contact rated at 16 A @ 120V & 10 A @ 277 V Rated for incandescent (tungsten & halogen), magnetic low-voltage, electronic low-voltage, magnetic fluorescent driver and general purpose switching (including plug loads)
Control	Dimming Control	0 - 10 V dimming control capable of sourcing or sinking 40 mA. Can be wired as Class 1 or Class 2 circuit.
	User Controls	Service button Test button Factory set button
	Low Voltage Connections	External device 24 VDC power to standalone sensors (60 mA max) 3 dry contact inputs (SW1, SW2, SWOFF) Motion input - active high +24VDC from sensor (wet contact) UL924 triggers DyNet panic preset 65,534 0 - 10V dimming terminals routable as Class 1 or Class 2 DMX512 input connection DyNet connection
	Configuration	Configuration and monitoring via Philips Dynalite EnvisionManager software. Programming via Philips Dynalite EnvisionProject software.
	Operational Control Curves	Linear (fluorescent) Modified Linear (LED)
Physical	Power Wiring	Flying leads Line, Load, Neutral and Ground
	Data Wiring	CAT5/CAT6 with RJ45 terminations or 18-22 AWG twisted pair RS485 compatible cabling to press release terminals
	Dimensions (H x W x D)	8.27" x 4.0" x 2.7" (210.1 mm x 104.8 mm x 70.9 mm)
	Construction	16 gauge galvanized steel
Operating Conditions	Operating Conditions	Temperature: 32 to 122° F (0 to 50° C) ambient Humidity: 10 to 95% non-condensing (indoor application only)
	Storage & Transport	Temperature: -13 to 140° F (-25 to 60° C) ambient Humidity: 10 to 90% non-condensing
Certification	Compliance	FCC Part 15A, UL916, cUL916, CSA 22.2 No 205, California Title 24 Section 119, 2008 as part of a Dynalite system, RoHS Compliant, ANSI C82.11 Dimming Compliant, Air sealed model available to meet City of Chicago Plenum requirements.
Options & Ordering	Standard Product - 0-10 + Relay I Circuit	DC-DRD-I-IS-101 (Philips I2NC - 913701252801)
	0-20 + Relay I Circuit (meeting City of Chicago Plenum requirements)	DC-DRD-I-IC-101 (Philips I2NC - 913701254501)
	Additional spare box mounting ring (1 included with each controller)	DC-RING-001 (Philips I2NC - 913701254902)
	Additional spare low voltage wire protection grommet (1 included with each controller)	DC-GROMMET-001 (Philips I2NC - 913701254802)
	Captivation Handheld DMX Addressing Unit	DL-CP-ZIPPY-NA

# Electrical Diagram



# Wiring Diagram



# Load Compatibility

Load Type	@ 120V 50/60 Hz	@ 277V 50/60 Hz
Resistive Load	16A	10 A
Tungsten Lamp	16A	10 A
Magnetic Driver	16A	10 A
Electronic Driver	16A	10 A
Magnetic Halogen	16A	10 A
Electronic Halogen	16A	10 A
Horsepower	1HP	2 HP



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