RP Series Expansion Light Modules



0-10V light module without power distribution

Introduction

The RP-C-EXT-0-10V-4 light module connects to the RP-C room controllers and provides I/O expansion for 0-10V lighting control.

The 0-10V light module enables control of lights equipped with 0-10V ballasts.

Lighting can be controlled by the RP-C through motion detection and light intensity measurement provided by the Multi-sensor or by SmartX Sensors connected to the RP-C.

The 0-10V light module is part of the RP Series expansion modules for connected room solution and can be combined with other modules from this product range.

Features

The 0-10V light module has the following features:

- Power and communications through the room bus
- · Four light control outputs
- Four digital inputs for connection of light switches and window contacts
- Suitable for mounting in ceilings
- · Wieland connectors for quick and easy installation
- Engage mobile application for room comfort settings
- · Status LED for the device
- Rotary switch for address configuration

0-10V lighting control

The analog interface has the following features:

- Independent control of each of the four outputs.
- The lights on each output belong to the same group and are thus controlled simultaneously (same ON / OFF / Dimming setpoint).

Room bus

The RP-C room bus allows RP Series expansion modules and multi-sensors to be connected to the controller for motion detection, luminosity measurements, communication with remote control (RP-C-RC-BLE), and control of electric lights and window blinds.

The RP-C room bus supports up to six connected RP Series expansion modules and multi-sensors with the following restrictions:

- · Maximum of two DALI light modules
- Maximum of two SMI blind modules
- · Maximum of four multi-sensors

Maximum total length of the room bus is 72 m (236 ft).

Engage mobile application

The Engage mobile application enables control of room temperature, fan speed, lights, and blinds/shades directly from a smartphone. A user can manage these settings when the application is connected to the RP-C controller.

RP Series Expansion Light Modules

The Engage mobile application is free and available for download from Google Play and Apple App Store.

For more information, see the Engage Specification Sheet.

Part Numbers

Product	Part number	
RP-C-EXT-0-10V-4	SXWRE010410001	
DIN-RAIL-CLIP, DIN-rail end clip	SXWDINEND10001	
package of 25 pieces		

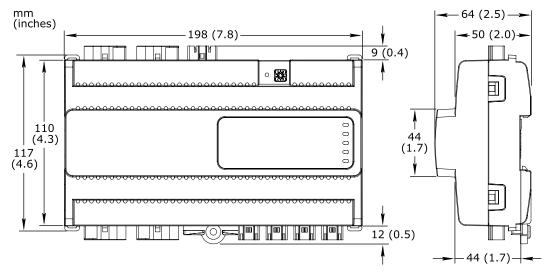
Specifications

Electrical

Nominal voltage Operating voltage range Frequency Power consumption. Room bus power consumption	+/-10 % 50/60 Hz 10 VA 0.3 W (24 VDC)
Overvoltage category	
Environment	
Ambient temperature, operating	
Ambient temperature, storage	20 to +70 °C (-4 to +158 °F)
Humidity	20 to 90 % RH non-condensing
Pollution degree	2
Material	
Plastic flame rating	UL94 V-0
Ingress protection rating	IP 20

RP Series Expansion Light Modules

Mechanical



Weight	
Installation	DIN rail or flat surface
	Power input: 1 x 3-pin Wieland GST15i3 connector
	Light outputs: 4 x 2-pin Wieland GST15i2 connectorDigital inputs: 4 x 2-pin Wieland GST15i2 connector

Software compatibility

EcoStruxure Building Operation softwareversion 3.2 and later

Agency compliances

Communication ports

Room bus	RS-485
	Dual RJ45 ports for daisy-chain configurations
	Use a Cat 5 (or higher) cable
	Maximum total length of the room bus: 72 m (236 ft)
Doom hus protection	Transient veltage cumpressers on communication and newer signals

Room bus protectionTransient voltage suppressors on communication and power signals

Hardware

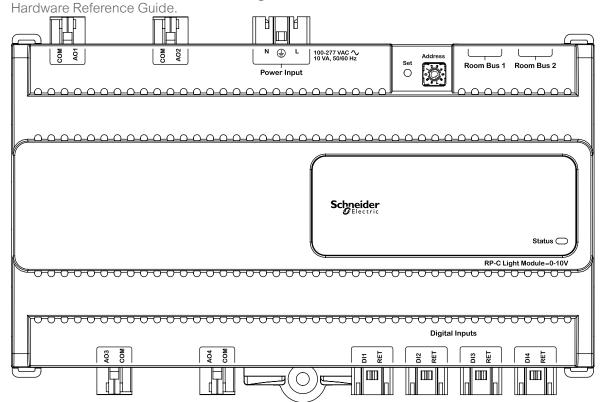
CPU type	ARM Cortex-M4 single-core
Frequency	
SRAM (embedded)	
Flash memory (embedded)	
NOR flash memory	

RP Series Expansion Light Modules

Status indicator	LED (green and red) that shows the status of the device
Address switch	Rotary switch 0 to 9
	Push-button switch
0-10V light outputs	
Outputs	4, Light 1 to Light 4
Output terminals	AOn (n: 1 to 4) and COM
Analog output voltage	0 to 10 VDC
Maximum source/sink current	10 mA per output
Digital inputs	
Inputs	4, DI1 to DI4
Range	Dry contact, 0 to 5.0 VDC, 2.2 mA

Connections

Follow proper installation wiring diagrams and instructions. For more information on wiring, see



RP-C-EXT-0-10V-4

RP Series Expansion Light Modules

Required External Connectors

Use	Part number	Reference	Connector type	Suitable for cable diameters	Marking	Color of coding / housing	Minimum order quantity
				mm (inches)			
Power supply		91.931.4053.1	Female	5.6–11	L, PE, N	Black	100
input WPOW	WPOW			(0.22-0.43)		/Black	
Light outputs SXWRPCC0 WLIGHT2	SXWRPCCONW		Male	6–7.7	2, 1	Light blue	100
	WLIGH12			(0.24-0.30)	2: AO14	/White	
					1: COM		
g	SXWRPCCONW	91.921.2353.0	Female	3.4-5.5	1, 2	Light blue	100
	DI			(0.14-0.21)	1: DI14	/White	
					2: RET		

The external connectors need to be ordered separately. The connectors can be ordered in quantities of 50 or 100 from Schneider Electric using the above part numbers. The connectors can also be ordered directly from Wieland using the above reference numbers. For more information, see the Wieland Electric web site.

Regulatory Notices



FCC Rules and Regulations CFR 47, Part 15, Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Regulatory Compliance Mark (RCM) - Australian Communications and Media Authority (ACMA)

This equipment complies with the requirements of the relevant ACMA standards made under the Radiocommunications Act 1992 and the Telecommunications Act 1997. These standards are referenced in notices made under section 182 of the Radiocommunications Act and 407 of the Telecommunications Act.

CE - Compliance to European Union (EU)

2014/30/EU Electromagnetic Compatibility Directive

2014/35/EU Low Voltage Directive 2011/65/EU Restriction of Hazardous Substances (RoHS) Directive

2015/863/EU amending Annex II to Directive 2011/65/EU

This equipment complies with the rules, of the Official Journal of the European Union, for governing the Self Declaration of the CE Marking for the European Union as specified in the above directive(s) per the provisions of the following standards: EN 60730-1, EN 60730-2-11, and EN 50491-3 Safety Standards.

Ø

WEEE - Directive of the European Union (EU)

This equipment and its packaging carry the waste of electrical and electronic equipment (WEEE) label, in compliance with European Union (EU) Directive 2012/19/EU, governing the disposal and recycling of electrical and electronic equipment in the European community.

LUSTED UL 916 Listed products for the United States and Canada, Energy Management

