

# SpaceLogic<sup>™</sup> RP Controller Expansion Modules

## EcoStruxure<sup>™</sup> Building



### 10-channel relay module Introduction

SpaceLogic\* CRS-HH-REL-10 relay module connects to the SpaceLogic RP-C Pro room controllers and enables the control of lights and blinds.

It supports high-voltage (120/240 VAC) blind motors. Other types of blind motors are supported by means of external relays. For more information, see the SpaceLogic Hardware Reference Guide.

It is part of the EcoStruxure™ Connected Room Solutions for Hotels and can be combined with other modules from this product range.

It is designed for hotel guest room applications.

It is not recommended to be used with the SpaceLogic RP-C Advanced room controllers for hotel applications.

\* Formerly known as SmartX.

#### Features

The relay module offers the following features:

- · Power and communications through the room bus
- 10 relay outputs for the control of lights and blinds in the hotel guest room





- 12 digital inputs offer more flexibility for different applications with in-wall switches or sensors. The digital inputs are SELV (Safety Extra-Low Voltage).
- High-performance relays, with high inrush current capability, well suited for LED lighting applications
- Status LED for the device
- · Rotary switch for address configuration

#### **Connected Room Solutions for Hotels**

This solution easily transforms hotels. Its extensive architecture is designed for a wide range of modular components including temperature, light and blind control interfaces, as well as bedside panels, sensors, thermostats, plus a wide range of HMIs (such as mechanical switches and Modbus glass touch panels).

Get the latest wireless capabilities with the Commission mobile application for commissioning and the open protocols to interface with industry-standard IoT devices.

#### Room Bus

The RP-C Pro controller room bus supports up to nine connected RP controller expansion modules with the restrictions that are specified in the Connected Room Solutions for Hotels Supplementary Document Architecture Guidelines.

The Architecture Guidelines for Hotels is a supplementary document to the Architectural Guidelines - EcoStruxure Building Management.

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

#### Part Numbers

Product	Part number
CRS-HH-REL-10 Includes pluggable screw terminal blocks (10 x 2-pole, 2 x 9-pole connectors) for the I/O, delivered in a plastic bag with the device.	SXWHHREL10001
DIN-RAIL-CLIP, DIN-rail end clip package of 25 pieces	SXWDINEND10001

### Specifications

CRS-HH-REL-10	
Electrical	
DC input supply voltage	24 VDC Powered by the RP-C through the room bus (RJ45)
Maximum power consumption	0.3 W
Environment	
Ambient temperature, operating	0 to 50 °C (32 to 122 °F)
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
Mechanical	
Dimensions	198 W x 110 H x 64 D mm (7.8 W x 4.3 H x 2.5 D in.)

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0.476 kg (1.050 lb) Installation DIN rail or flat surface Relay outputs: 10 x 2-pin screw terminal block Digital inputs: 2 x 9-pin screw terminal block **Terminal blocks** EcoStruxure Building Operation software version 3.3 and later Emission RCM; BS/EN 61000-6-3; BS/EN 50491-5-2; FCC Part 15, Sub-part B, Class B BS/EN 61000-6-2; BS/EN 50491-5-3 Immunity Safety standards BS/EN 60730-1; BS/EN 60730-2-11; BS/EN 50491-3; UL 916 C-UL US Listed Fire performance in air-handling spaces<sup>a</sup> UL 2043 a) The CRS-HH-REL-10 relay module is approved for plenum applications. Room bus RS-485 Dual RJ45 ports for daisy-chain configurations Use a Čat 5 (or higher) cable Maximum total length of the room bus: 72 m (236 ft) Room bus protection Transient voltage suppressors on communication and power signals CPU type ARM Cortex-M4 single-core Frequency 80 MHz SRAM (embedded) 320 KB Flash memory (embedded) 512 KB NOR flash memory 16 MB

LED (green and red) that shows the status of the device

Status indicator

Address switch	Rotary switch 0 to 9
Set button	Push-button switch
Relay outputs	
Outputs	10, DO1 to DO10
Relay output rating	24 to 277 VAC, 50/60 Hz, 30 VDC: Resistive and incandescent: 10 A Standard magnetic ballast: 5 A LED driver: 5 A 1/2 HP, 240 VAC, 50/60 Hz 1/4 HP, 120 VAC, 50/60 Hz
Maximum load current	Maximum 50 A total load for the 10 outputs
Maximum inrush current	Maximum 165 A inrush current (<20 ms) per output Maximum 800 A inrush current (<200 µs) per output
Digital inputs	
Inputs	12, DI1 to DI12

Range

Dry contact, 0 to 5.0 VDC, 2.2 mA, SELV (Safety Extra-Low Voltage)

### Connections

Follow proper installation wiring diagrams and instructions. For more information on wiring, see the installation instructions in the SpaceLogic CRS-HH-REL-10 Expansion Module Installation Sheet, the SpaceLogic Hardware Reference Guide, and the RP- C room bus restrictions specified for the Connected Room Solutions for Hotels in the Architecture Guidelines - Hotel Application, which is a supplementary document to the Architectural Guidelines - EcoStruxure Building Management.



CRS-HH-REL-10

## **Regulatory Notices**

#### FC

Federal Communications Commission 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.

Industry Canada 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.

### Ò

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.

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UL 916 Listed products for the United States and Canada, Open Class Energy Management Equipment. UL file E80146.

CE 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).

#### 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.

## UK CA

UK Conformity Assessed S.I. 2016/1019 - Electromagnetic Compatibility Regulations 2016 S.I. 2016/1019 - Electrical Equipment (Safety) Regulations 2016 S.I. 2012/3032 - Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 S.I. 2013/313 - Waste Electrical and Electronic Equipment Regulations 2013 This equipment complies with the rules, of the UK regulations, for governing the UKCA Marking for the United Kingdom specified in the above directive(s).

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