

SpaceLogic™ RP-C 230 V

Controller Models

Part numbers: SXWRCF16A10003 and SXWRCF16B10002

Regulatory Compliance and Safety Information

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

Carefully read these instructions and all information relevant for this product before trying to install it. See the list of technical literature.

The technical literature and declarations of conformity can be accessed on the Schneider Electric Exchange website, ecobuilding.schneider-electric.com. Contact your local Schneider Electric sales office for a hard copy of the documentation or for additional information.

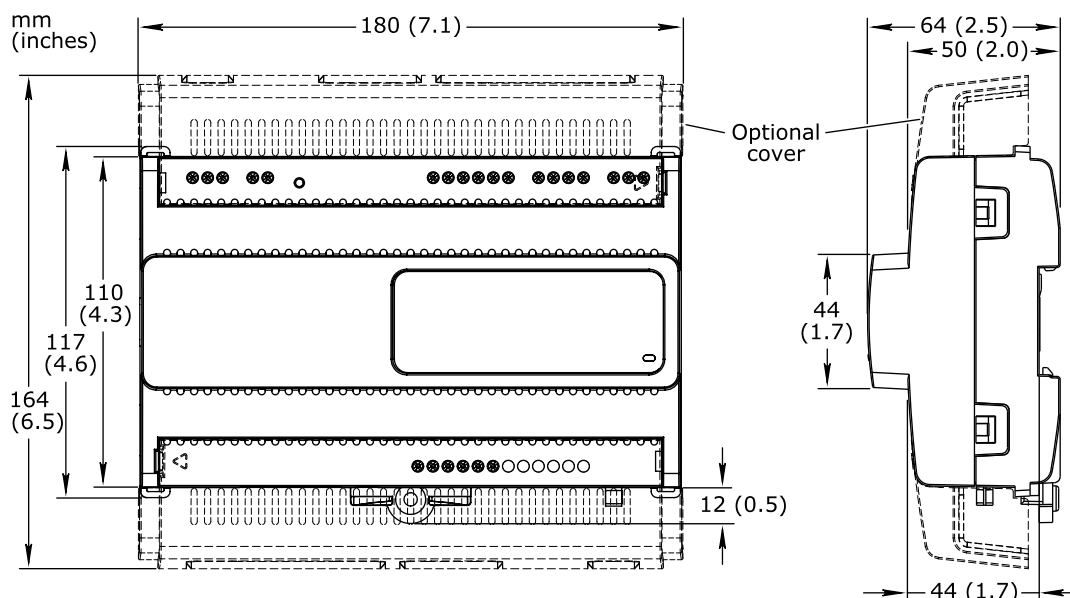
Technical Literature

- SpaceLogic Hardware Reference Guide, 04-XX001-XX-en

Recommended Installation Location

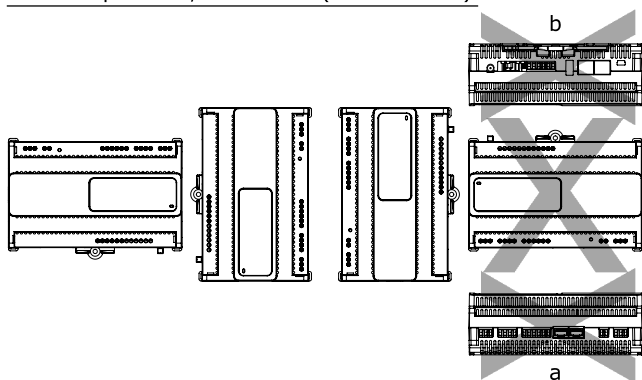
The controller is intended for fan coil, ceiling systems, and other applications. The controller is typically installed next to or inside the fan coil equipment. The controller can be equipped with optional covers to reduce access to the screw terminals and wires.

Dimensions



Installation Orientation Restrictions

Normal operation, 0 to 50 °C (32 to 122 °F):



Note: Face up (a) and down (b) orientations are supported in the temperature range 0 to 40 °C (32 to 104 °F).

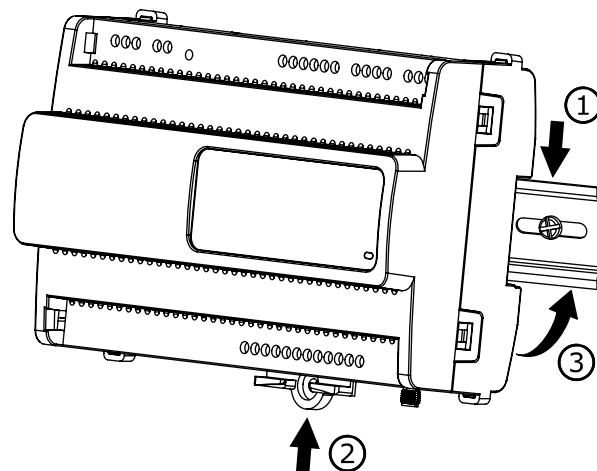
Installing the Device on a DIN Rail

NOTICE

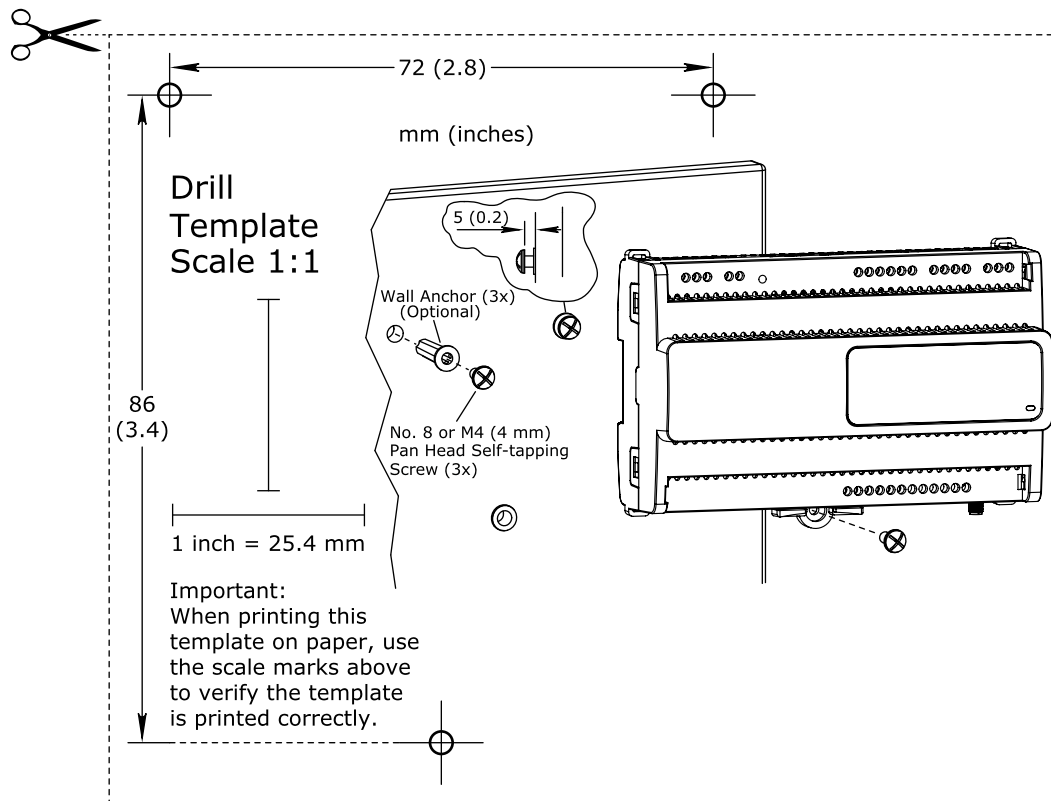
CONTROLLER DAMAGE

Use the DIN rail end clip when you install the controller on a vertical DIN rail.

Failure to follow these instructions can result in equipment damage.

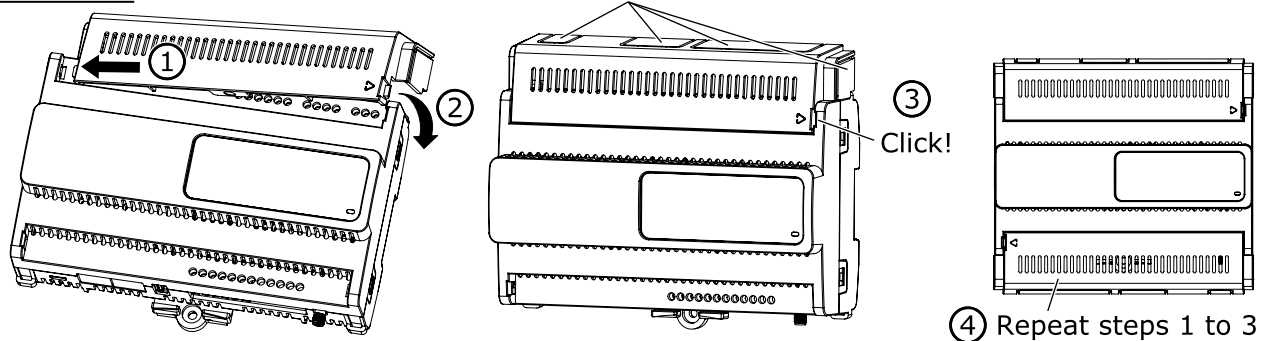


Installing the Device on a Flat Surface

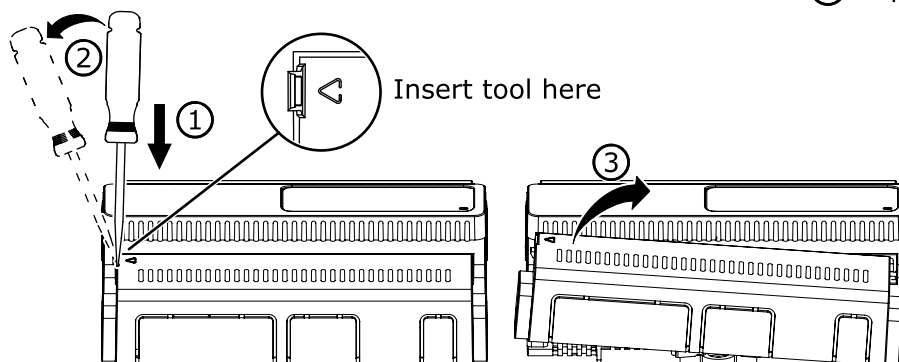


Installing and Removing the Optional Covers

Installation:



Removal:



Connections

⚠️⚠️ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Disconnect all line voltage connected to the controller and its relay outputs before working on the device.
- More than one disconnect switch may be required to de-energize this equipment before servicing.
- Connect only devices with safe extra low voltage equipment (SELV/PELV) inputs/outputs to the controller universal inputs/outputs.

Failure to follow these instructions will result in death or serious injury.

Connections, continued

⚠️ WARNING

HAZARD OF ELECTRIC SHOCK

For RP-C-16A-F-230V hardware version 9 and earlier, do not connect signal ground (RET terminals, USB shield, Ethernet network shield, or antenna shield) between RP-C controllers without connecting at least one of the RET terminals to protective earth ground.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

NOTICE

EQUIPMENT DAMAGE

Do not connect signal ground (RET terminals, USB shield, Ethernet network shield, or antenna shield) between RP-C controllers.

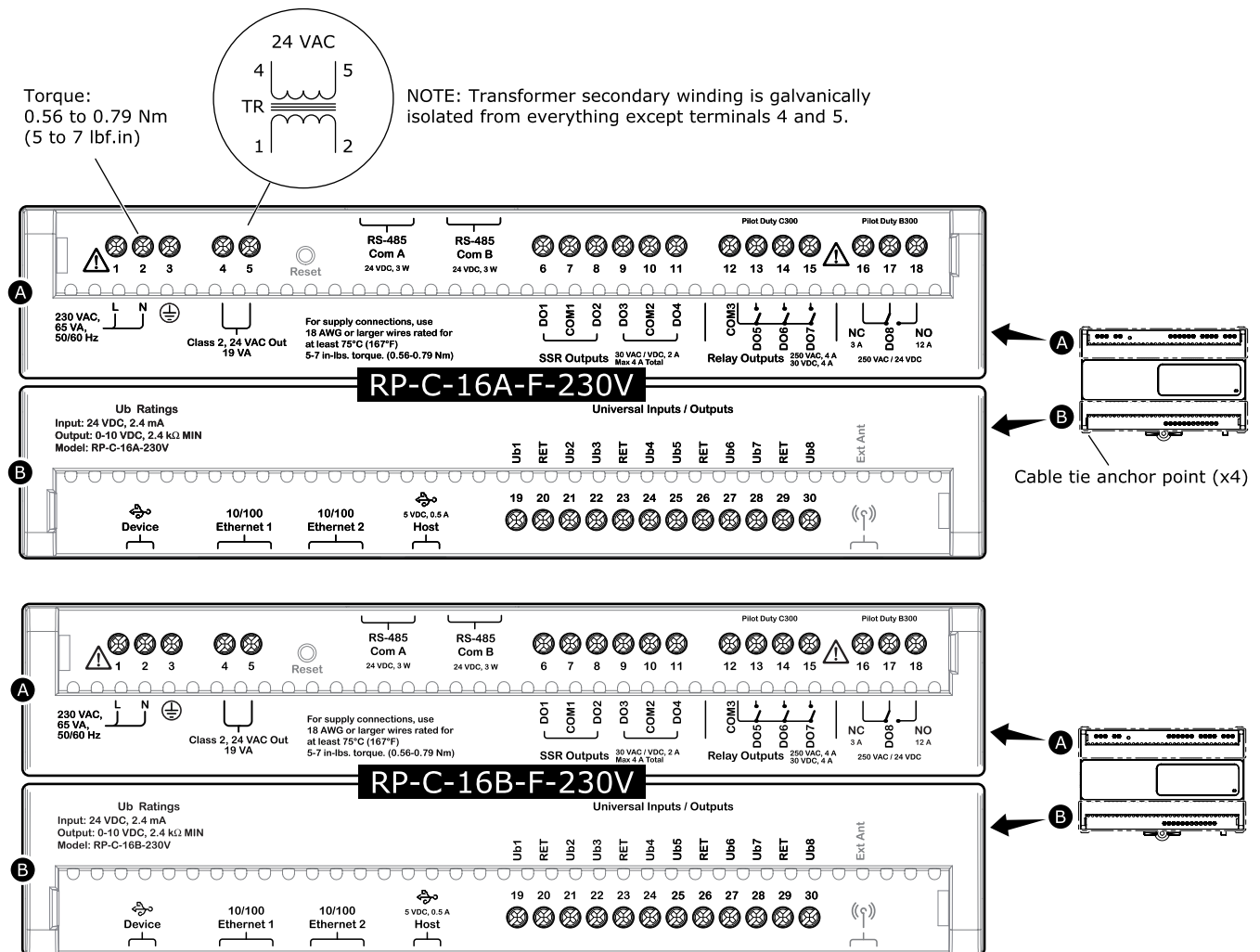
Failure to follow these instructions can result in equipment damage.

NOTICE

CONTROLLER DAMAGE

Before powering up the controller, ensure that the input power voltage level meets the specifications of the controller.

Failure to follow these instructions can result in equipment damage.



Wiring

Recommended screw tightening torque: 0.56 to 0.79 Nm (5 to 7 lbf.in)

For information on wiring, including connection diagrams, rating of and location of fuses (circuit breakers), and cable specifications, see the SpaceLogic Hardware Reference Guide.

Part Numbers

Product	Part number
RP-C-16A-F-230V	SXWRCF16A10003
RP-C-16B-F-230V	SXWRCF16B10002
Optional covers	SXWRPCCOV10001
DIN-rail end clip, 25 pieces	SXWDINEND10001
Isolated RS-485 adapter (cable not included)	SXWISORS48510001
Non-isolated RS-485 adapter (cable not included)	SXWNISORS48510001
RS-485 power adapter (cable not included)	SXWNISORS485P10001

For more information on the RS-485 adapters and the cable required, see the Isolated and Non-isolated RS-485 Adapter Installation Sheet.

Specifications

AC input Nominal voltage 230 VAC ~ 50/60 Hz Maximum power consumption 65 VA Power consumption without load 5 W Overvoltage category III Pollution degree 2 AC output Type Isolated Class 2 output Nominal voltage 24 VAC ~ 50/60 Hz Power rating 19 VA Port types USB device port Mini-B USB host port Type-A, 5 VDC, 0.5 A Ethernet port 1 and 2 10/100BASE-TX RJ45 RS-485 port Com A and Com B 24 VDC, 3 W, RS-485 (RJ45) Wireless connectivity Bluetooth® Low Energy (Bluetooth® 5) 2.402 to 2.480 GHz, max. 10 dBm output power, 100 m (328 ft) line-of-sight range	Antenna Integrated antenna Approved external antenna (optional) Manufacturer: Linx Technologies, Model: ANT-2.4-WRT-MON-SMA, Gain: 0.8 dBi, Type: Monopole, Impedance: 50 ohm, Connector: SMA Operation environment Ambient temperature, operating 0 to 50 °C (32 to 122 °F) See section Installation Orientation Restrictions. Humidity Maximum 95 % RH non-condensing Mechanical Ingress protection rating IP 20 Plastic flame rating UL94-5VB IP networking IP address assignment methods Static, DHCP (default), Auto-IP (address range 169.254.0.1 to 169.254.255.254, subnet mask 255.255.0.0) Ub – Universal I/O Input rating 24 VDC —, 2.4 mA Voltage output rating 0 to 10 VDC —, 2.4 kohm (min.)	Channels 8 DO – Relay outputs Relay contact rating Pilot Duty (C300) Min. current: 100 mA (5 VDC) Resistive: 250 VAC ~ / 30 VDC —, 4 A (cos phi = 1) Inductive: 250 VAC ~ / 30 VDC —, 4 A (cos phi = 0.4) Channels 3 DO – High power relay outputs Relay contact rating Pilot Duty (B300) Normally Open, resistive: 250 VAC ~ / 24 VDC —, 12 A (cos phi = 1) Normally Closed, inductive: 250 VAC ~ / 24 VDC —, 3 A (cos phi = 0.4) Channels 1 DO – Solid-state relay outputs Output rating 30 VAC ~ / 30 VDC —, 2 A Max. 4 A total load Channels 4
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Differences from Previous Hardware Versions

For information on differences from previous versions, see the SpaceLogic Hardware Reference Guide.

eu.bac Approved Controller Applications

A eu.bac approved controller application must operate in the controller to maintain compliance with the eu.bac certification. Approved controller applications can be downloaded from the Schneider Electric BMS Applications website, bms-applications.schneider-electric.com.

部件名称 (Part Name)	有害物质 (Hazardous Substances)					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
塑料部件 (Plastic Parts)	○	○	○	○	○	○
电子件 (Electronics)	X	○	○	○	○	○

本表格依据 SJ/T11364 的规定编制。(This table is made according to SJ/T 11364.)

○: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。
 (Indicates that the concentration of hazardous substance in all of the homogeneous materials for this part is below the limit as stipulated in GB/T 26572.)

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。
 (Indicates that the concentration of hazardous substance in at least one of the homogeneous materials used for this part is above the limit as stipulated in GB/T 26572.)

