

# Security System Integration Kit Operating Instructions

## Package Contents

- EA-A01-002 Interconnect Box (qty 1)
- EA-99-148 Door Switch (qty 2)
- EA-W01-23-206-52 Latch Harness (qty 2)
- EA-W52-206-52 Extension Harness (qty 2)
- EA-A20-001 4-Position Screw Terminal (qty 2)
- EA-A10-004 RJ45 Union (qty 2)
- Operating Instructions (qty 1)

## Features

- Simplified integration of RCI 3525 series rack handle locks into existing access control system
- Supports connection of two separate channels for independent system control
- For indoor use only

## Specifications

Dimensions:	64.6 x 64.6 x 25.6mm (Interconnect Box)
Length:	2 meters (Latch and Extension Harnesses)
Current Rating:	8A (4-Position Screw Terminal)
Current Rating:	400mA (Door Switch)

**⚠ WARNING: It is the installer's responsibility to ensure electrical compatibility among all devices attached to the Interconnect Box. Contact dormakaba technical support if assistance is required.**

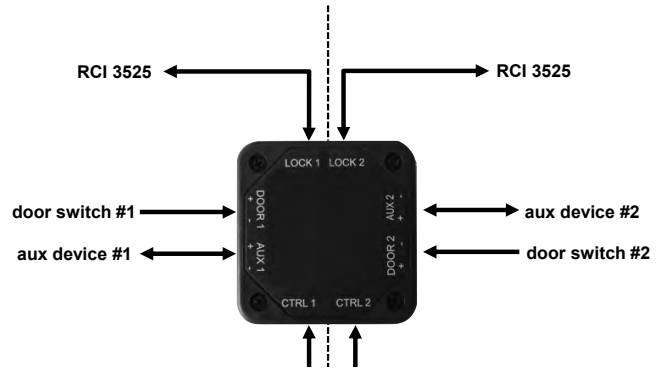
## Mounting and Installation

Please refer to trade drawing SSIK for mounting and installation details.

The EA-A01-102 kit includes an EA-W01-23-206-52 latch harness, EA-A10-004 RJ45 union, and EA-W52-206-52 extension harness for each channel. The RJ45 union and extension harness are provided to allow for a cabinet door to be easily removed during product installation or maintenance.

## EA-A01-002 Interconnect Box

The EA-A01-002 Interconnect Box supports two separate channels for connecting an access control system, including auxiliary devices, to a RCI 3525 rack handle. The Interconnect Box allows for the passing of signals and RCI 3525 power supply within a channel, but not across channels.

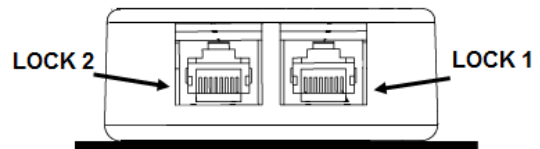


Each channel has three interfaces:

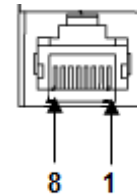
- latch interface (LOCK) – Used for connection of the RCI 3525 rack handle lock.
- access controller interface (CTRL) – Used for connection of the access controller.
- auxiliary device interface (AUX/DOOR) – Used for connection of the provided door switch and an additional auxiliary device (e.g. buzzer, light, REX button, etc.)

## Interconnect Box Interfaces

### Latch Interface



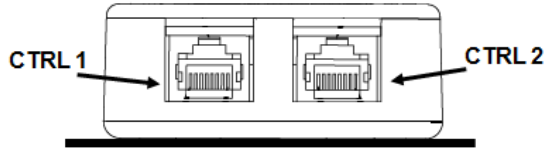
Each channel has an interface for the RCI 3525 rack handle. Signals are passed between this interface and the access controller interface.



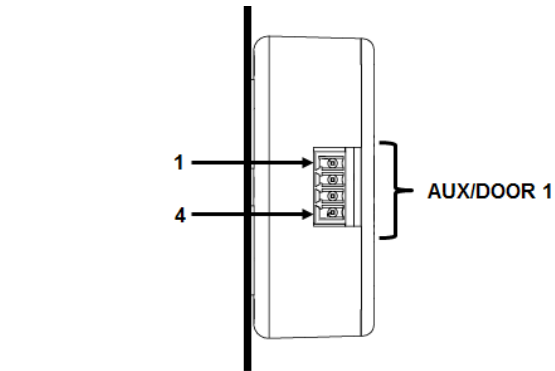
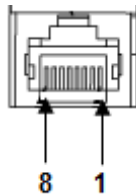
pin	description	function
1	DATA0	Wiegand DATA0 signal from RCI 3525
2	DATA1	Wiegand DATA1 signal from RCI 3525
3	CMD	electronic unlock command signal to RCI 3525
4	LATCH STATUS	Status signal from RCI 3525. Will be LOW if the latch is either electronically or mechanically unsecured.
5	N/C	no connect
6	LATCH STATUS	Status signal from RCI 3525. Will be LOW if the latch is either electronically or mechanically unsecured.
7	POWER	12-24VDC power supply to RCI 3525
8	GND	Ground connection. Common to RCI 3525 and attached auxiliary components within a channel (not across channels)

# EA-A01-102 Security System Integration Kit Operating Instructions

## Access Controller Interface



Each channel has an interface for an access controller. The access controller(s) and connecting harness(es) are not provided in the kit. Each controller interface has the following pinout:



pin	description	function
1	DOOR +	Input from door switch. Grounded when the switch is closed.
2	DOOR -	Ground connection.
3	AUX +	Auxiliary signal connection.
4	AUX -	Ground connection.

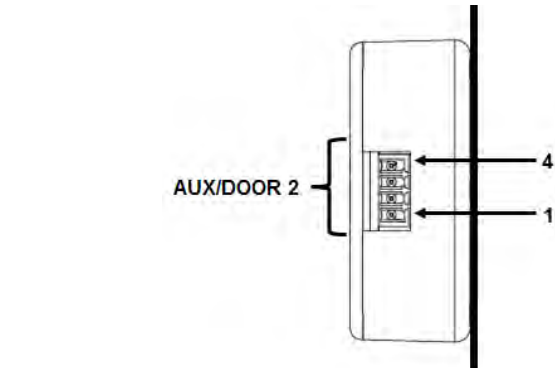
pin	description	function
1	DATA0	Wiegand DATA0 signal from RCI 3525
2	DATA1	Wiegand DATA1 signal from RCI 3525
3	CMD	electronic unlock command signal to RCI 3525
4	AUX	Auxiliary signal. Can be used as either an input to or output from controller.
5	LATCH STATUS	Status signal from RCI 3525. Will be LOW if the latch is either electronically or mechanically unsecured.
6	DOOR STATUS	Door status indicator to controller. GND when door is closed, otherwise "open". Must be used with door switch (EA-99-148 provided, or customer supplied).
7	POWER	12-24VDC power supply to RCI 3525
8	GND	Ground connection. Common to RCI 3525 and attached auxiliary components within a channel (not across channels)

**WARNING:** Review electrical specifications of the RCI 3525 rack handle to ensure compatibility with the access controller. Contact dormakaba technical support if assistance is required.

## Auxiliary Device Interface

Each channel has an interface for connections to two auxiliary devices. The kit includes two EA-99-148 door switches. Use the screw terminals on the EA-A20-001 terminal block to secure connections for the auxiliary and door switch wires, then install the EA-A20-001 terminal block into the AUX/DOOR connector.

The screw terminals on the terminal block cannot be accessed after it has been installed and the junction box mounted, without removing the terminal block first.

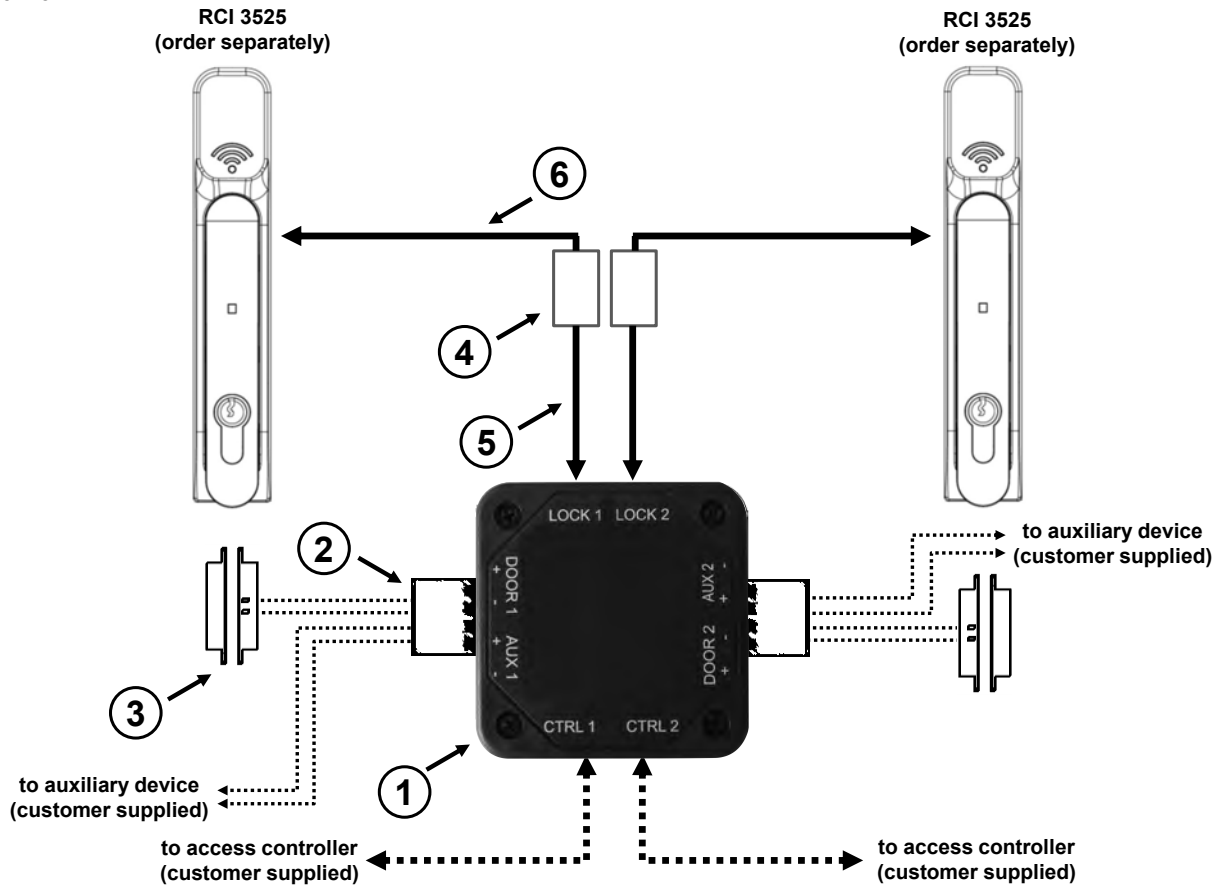


pin	description	function
1	DOOR +	Input from door switch. Grounded when the switch is closed.
2	DOOR -	Ground connection.
3	AUX +	Auxiliary signal connection.
4	AUX -	Ground connection.

**NOTE:** Wire harness for door switch and optional auxiliary device are not included with the kit.

## EA-A01-102 Security System Integration Kit Operating Instructions

**System Overview**



Item	Qty	Part Number	Description
1	1	EA-A01-002	Interconnect Box
2	2	EA-A20-001	4-Position Screw Terminal
3	2	EA-99-148	Door Switch
4	2	EA-A10-004	RJ45 Union
5	2	EA-W52-206-52	Extension Harness
6	2	EA-W01-23-206-52	Latch Harness

**T568A/T568B Pinout for Access Controller Interface**

description	pin	T568A	T568B
DATA0	1	(green/white)	(orange/white)
DATA1	2	(green)	(orange)
CMD	3	(orange/white)	(green/white)
AUX	4	(blue)	(blue)
LATCH STATUS	5	(blue/white)	(blue/white)
DOOR STATUS	6	(orange)	(green)
POWER	7	(brown/white)	(brown/white)
GND	8	(brown)	(brown)