



EA-A01-102 Security System Integration Kit Operating Instructions

Package Contents

- EA-A01-002 Interconnect Box (qty 1)
- EA-A80-002 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 Southco H3-EM 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 Southco if assistance is required.

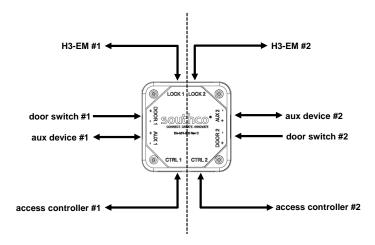
Mounting and Installation

Please refer to Southco trade drawing J-EA-A01-102 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 Southco H3-EM swinghandle. The Interconnect Box allows for the passing of signals and H3-EM power supply within a channel, but not across channels.

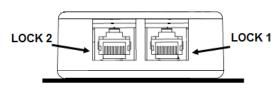


Each channel has three interfaces:

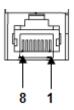
- latch interface (LOCK) Used for connection of the H3-EM swinghandle.
- access controller interface (CTRL) Used for connection of the access controller.
- auxiliary device interface (AUX/DOOR) Used for connection of the provided door switch and an additional auxiliary device (e.g. buzzer, light, REX button, etc.)

Interconnect Box Interfaces

Latch Interface



Each channel has an interface for the H3-EM swinghandle. Signals are passed between this interface and the access controller interface.

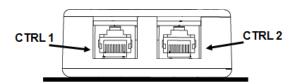


pin	description	function			
1	DATA0	Wiegand DATA0 signal from H3-EM			
2	DATA1	Wiegand DATA1 signal from H3-EM			
3	CMD	electronic unlock command signal to H3-EM			
4	LATCH STATUS	Status signal from H3-EM. Will be LOW if the latch is ether electronically or mechanically unsecured.			
5	N/C	no connect			
6	LATCH STATUS	Status signal from H3-EM. Will be LOW if the latch is ether electronically or mechanically unsecured.			
7	POWER	12-24VDC power supply to H3-EM			
8	GND	Ground connection. Common to H3-EMs and attached auxiliary components within a channel (not across channels)			

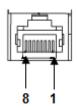


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Access Controller Interface



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:



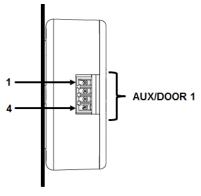
pin	description	function			
Pill		14441			
1	DATA0	Wiegand DATA0 signal from H3-EM			
2	DATA1	Wiegand DATA1 signal from H3-EM			
3	CMD	electronic unlock command signal to H3-EM			
4	AUX	Auxiliary signal. Can be used as either an input to			
		or output from controller.			
5	LATCH	Status signal from H3-EM. Will be LOW if the			
	STATUS	latch is ether electronically or mechanically			
		unsecured.			
6	DOOR	Door status indicator to controller. GND when			
	STATUS	door is closed, otherwise "open". Must be used			
		with door switch (EA-A80-002 provided, or			
		customer supplied).			
7	POWER	12-24VDC power supply to H3-EM			
8	GND	Ground connection. Common to H3-EMs and			
		attached auxiliary components within a channel			
		(not across channels)			

WARNING: Review electrical specifications of the H3-EM swinghandle to ensure compatibility with the access controller. Contact Southco if assistance is required.

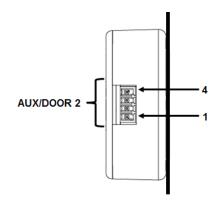
Auxiliary Device Interface

Each channel has an interface for connections to two auxiliary devices. The kit includes two EA-A80-002 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.	



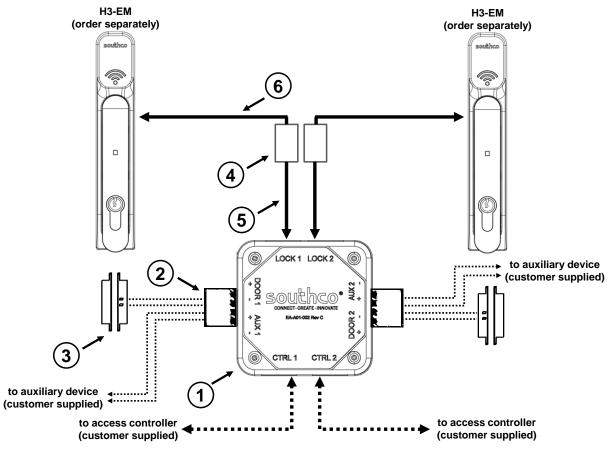
pin	description	function	
1	DOOR +	Input from door switch. Grounded when the switch is closed.	
2	DOOR -	Ground connection.	
3	AUX +	Auxiliary signal connection.	
4	AUX -	Ground connection.	

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



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System Overview



Southco supplied wire harness
Customer supplied wire harness

Item	Qty	Part Number	Description	
1	1	EA-A01-002	Interconnect Box	
2	2	EA-A20-001	4-Position Screw Terminal	
3	2	EA-A80-002	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)

For technical support of this product, contact info@southco.com or visit www.southco.com.