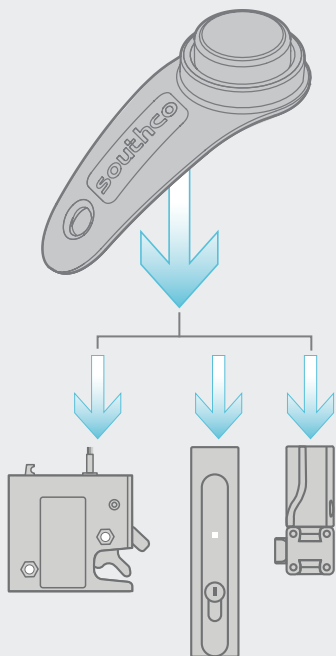




EA Electronic Key System

Electronic access

- **Simplified one-touch key management and lock actuation**
- **Minimal power consumption ideal for battery powered applications**
- **Simple, software-free installation**
- **Keyfobs available with custom colors and logos**
- **LED provides visual feedback for programming and access status**
- **Sealed, stainless steel, electronic key construction for durability**
- **High security with trillions of possible key codes**
- **Programmable access time**



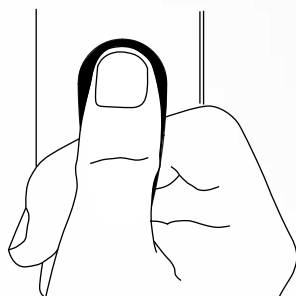
Other options available. For complete details on variety, part numbers, installation and specification, go to



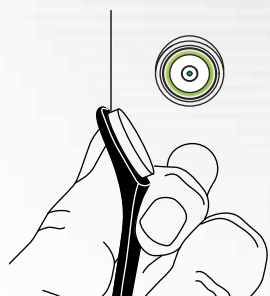
www.southco.com

The new *SOUTHCO*® Electronic Key System provides an efficient, user-friendly solution for key management issues. The compact iButton® based system requires no software and allows users to easily set up, modify, add and delete access privileges with the touch of a button. A user need only touch the electronic key to the reader to authenticate the key and receive access.

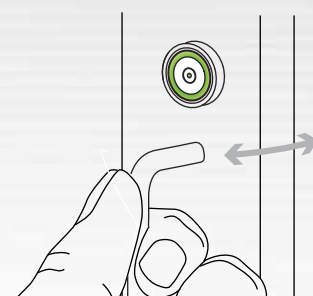
The Electronic Key System can operate any Southco electromechanical lock and is especially well suited for applications that require the distribution of multiple keys to individuals with varying access privileges across multiple access points – an arduous undertaking with mechanical keys.



TOUCH



ACCESS STATUS



OPEN

Dimensions in millimeters (inch) unless otherwise stated

southco
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EA Electronic Key System Kit

Electronic access

How to Order

Order part number EA-B90 for complete kit **OR** order components separately:

- 1 controller per system
- 1 reader per system
- 1 electronic key for use as supervisor key and up to 15 keys for user access
- 1 Southco power harness (optional)

Part Number:

EA-B90

Part Number: EA-B90 includes the following:

- 3 electronic keys (red, black, gray)
- 1 reader assembly
- 1 controller
- 1 power wire harness



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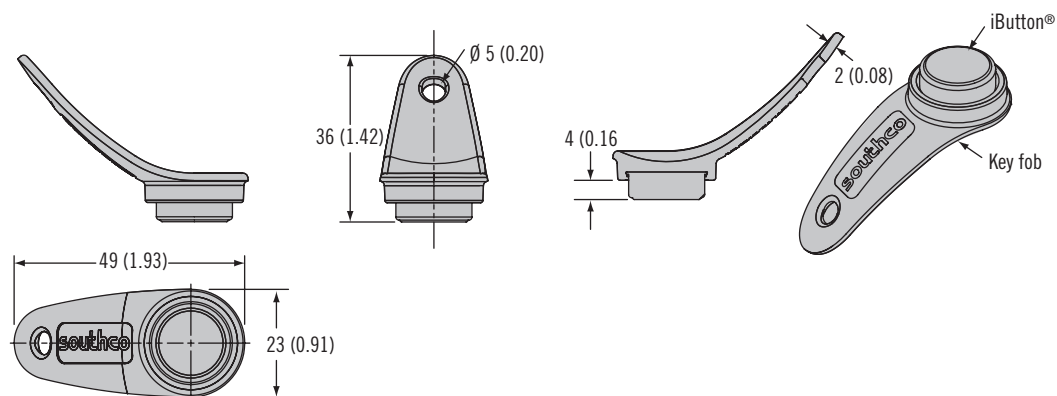


EA Electronic Key Assembly

Electronic access

Material & Finish

iButton® Key Fob: Acetal (color see table) and Stainless Steel
RoHS Compliant



Part Number Selection

EA - B10 - 11 - EE

EE Color see table

EE	Color
01	Red
07	Black
09	Grey

"Other colors available upon request.
Contact Southco for details."

Dimensions in millimeters (inch) unless otherwise stated

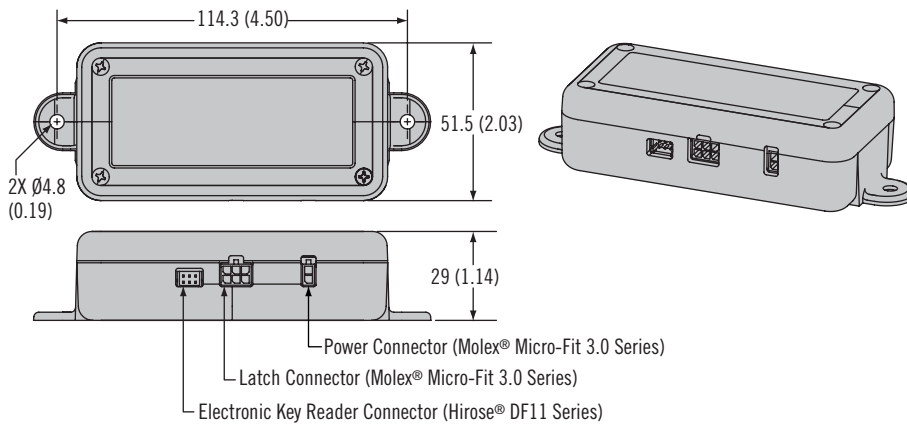


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EA Electronic Key Controller Assembly

Electronic access



Material & Finish

Enclosure: ABS V-0 rated
RoHS Compliant

Electrical Specifications:

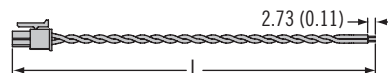
Supply Voltage: 12VDC $\pm$ 10%
Quiescent Current: 100 μ A (max)
Operating Current: 35mA (max)
Latch Command Output Signal
Rating: 2A Max

Part Number:

EA-B20-112

Part Number	Length
EA-W22-100	1 m (39.37)
EA-W22-200	2 m (78.74)

Optional power wire harness



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EA Electronic Key Reader Assembly

Electronic access



Material & Finish

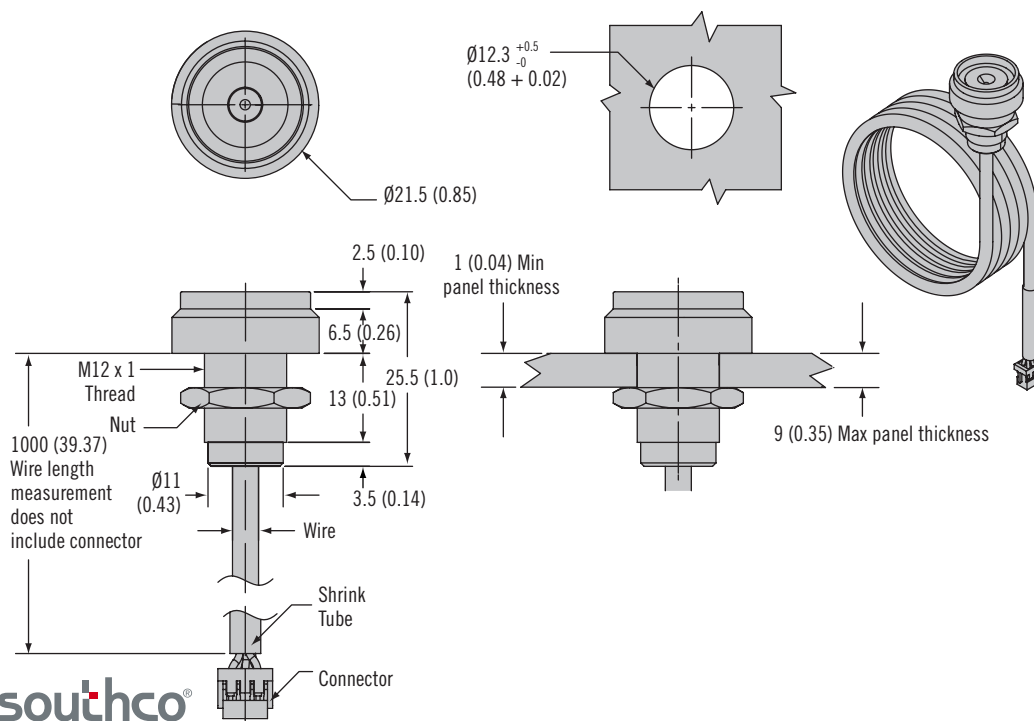
RoHS Compliant
Polyacetal plastic and chrome plated steel

Installation

Prepare panel as shown.
Remove nut.
Slip assembly through hole, threaded on nut.
Plug connector into electronic key reader connector on controller assembly

Part Number:

EA-B30-117



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EA Electronic Key System

Electronic access

A system is comprised of..

... an electronic key

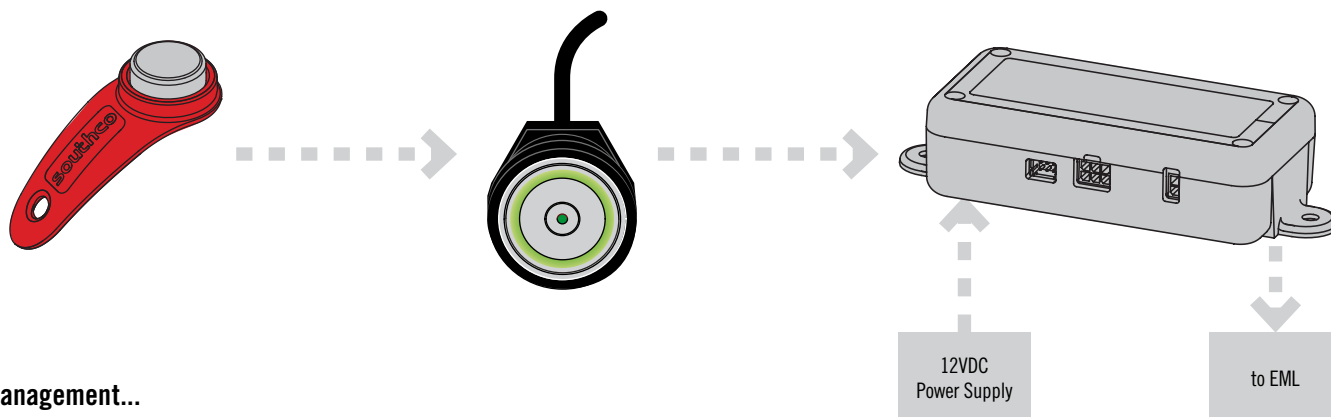
- 64 bit unique, unalterable user ID
- IC enclosed in sealed, stainless steel housing
- encapsulated in customizable fob

... an electronic key reader

- receptacle to transmit the user ID to the controller
- integrated LEDs for programming and read status

... a controller

- validates user ID against enrolled codes
- provides output to electronic lock based on ID validation



Key management...

During initial setup, the first electronic key enrolled becomes the programming key.

Touch the programming key to the reader to enter programming mode to add or delete keys.

- The reader will indicate the controller is in programming mode
- An unprogrammed key presented to the probe while in program mode is added to the system (up to 15 keys per system)
- A programmed key presented to the probe while in program mode will be deleted from the system

Touch the programming key to the reader again to exit programming mode.

Normal operation...

An electronic key is momentarily touched to the reader.

The reader includes a bi-color LED indicator to provide feedback status to the user.

The controller authenticates the electronic key and either grants or denies access.

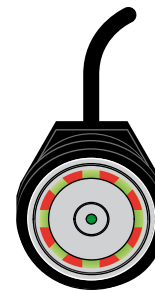
If access is granted, the controller produces an output signal to operate the electronic lock.



Reader LED turns amber (programming mode)



Reader LED turns green (enrolled key)



Reader LED flashes green/red (unenrolled key)

iButton® is a registered trademark of Maxim Integrated Products, Inc.

Dimensions in millimeters (inch) unless otherwise stated

EA-99-134	EA-K1-010-9	EA-W01-100-01	EA-W01-52-206-A	EA-W20-401-51
EA-99-162	EA-K1-011	EA-W01-100-21	EA-W01-52-306	EA-W20-500
EA-99-163	EA-K1-011-9	EA-W01-106-52	EA-W01-52-306-52	EA-W20-501-01
EA-99-164	EA-K1-012	EA-W01-123-21	EA-W01-52-306-52-A	EA-W20-501-21
EA-99-166	EA-K1-012-9	EA-W01-1500	EA-W01-52-306-A	EA-W20-501-51
EA-99-175	EA-K1-020	EA-W01-200	EA-W01-523-21	EA-W20-A01-01
EA-99-177-010	EA-K1-020-9	EA-W01-200-01	EA-W01-52-406	EA-W20-A01-21
EA-99-177-020	EA-K1-021	EA-W01-200-21	EA-W01-52-406-52	EA-W20-A01-51
EA-99-177-050	EA-K1-021-9	EA-W01-200-51	EA-W01-52-406-52-A	EA-W20-B01-01
EA-99-177-100	EA-K1-022	EA-W01-206-52	EA-W01-52-406-A	EA-W20-B01-21
EA-99-177-250	EA-K1-022-9	EA-W01-223-21	EA-W01-52-506	EA-W20-C01-01
EA-99-177-500	EA-K3-033	EA-W01-23-106-52	EA-W01-52-506-52	EA-W20-D01-01
EA-99-286	EA-KC2-101	EA-W01-23-107	EA-W01-52-506-52-A	EA-W20-E01-01
EA-99-292	EA-KC2-102	EA-W01-23-107-03	EA-W01-52-506-A	EA-W21-100
EA-99-304	EA-KC2-103	EA-W01-23-206-52	EA-W01-52-A06	EA-W21-100-01
EA-A01-001	EA-KC2-104	EA-W01-23-207	EA-W01-52-A06-52	EA-W21-100-21
EA-A01-102	EA-KC2-201	EA-W01-23-207-03	EA-W01-52-A06-52-A	EA-W21-100-51
EA-A01-202	EA-P1-010	EA-W01-23-306-52	EA-W01-52-A06-A	EA-W21-100-52
EA-A02-001	EA-P1-010-9	EA-W01-23-307	EA-W01-A00-01	EA-W21-200
EA-A02-002	EA-P1-011	EA-W01-23-307-03	EA-W01-A00-51	EA-W21-200-01
EA-A02-002-1	EA-P1-011-9	EA-W01-23-406-52	EA-W01-A06-52	EA-W21-200-21
EA-A02-002-2	EA-P1-012	EA-W01-23-407	EA-W01-A17-21	EA-W21-200-51
EA-A02-002-3	EA-P1-012-9	EA-W01-23-407-03	EA-W01-A23-21	EA-W21-200-52
EA-A02-002-4	EA-P3-101-1	EA-W01-23-506-52	EA-W01-B00-01	EA-W21-300
EA-A02-003	EA-P3-200-1	EA-W01-23-507	EA-W01-B00-51	EA-W21-300-01
EA-A02-004	EA-P4-101	EA-W01-23-507-03	EA-W02-102-21	EA-W21-300-21
EA-A05-001	EA-P4-302	EA-W01-23-A06-52	EA-W02-103-01	EA-W21-300-51
EA-A05-002	EA-P4-502	EA-W01-23-A07	EA-W02-202-21	EA-W21-300-52
EA-A06-001	EA-P5-30004	EA-W01-300	EA-W02-203-01	EA-W21-400
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EA-A80-002	EA-P5-30600	EA-W01-306-52	EA-W02-503-01	EA-W21-400-52
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EA-BT-4043-10-A1	EA-P5-31000-10	EA-W01-400-01	EA-W03-307-03	EA-W21-500-21
EA-BT-4043-10-A3	EA-P5-31004	EA-W01-400-21	EA-W03-407-03	EA-W21-500-51
EA-BT-4043-10-B1	EA-P5-31004-10	EA-W01-400-51	EA-W03-507-03	EA-W21-500-52
EA-BT-4043-10-C1	EA-P5-31100	EA-W01-401-03	EA-W20-100	EA-W21-A00
EA-BT-4043-10-D1	EA-P5-31100-10	EA-W01-406-52	EA-W20-101-01	EA-W21-A00-01
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EA-BT-4043-10-F1	EA-P5-31104-10	EA-W01-500	EA-W20-101-51	EA-W21-A03-02
EA-BT-4043-10-F2	EA-P5-31105	EA-W01-500-21	EA-W20-200	EA-W21-A25-21
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EA-C2-021	EA-R01-101	EA-W01-506-52	EA-W20-201-51	EA-W22-100
EA-C2-021-9	EA-R02	EA-W01-52-106	EA-W20-300	EA-W22-170-90
EA-C3-100	EA-R02-102	EA-W01-52-106-52	EA-W20-301-01	EA-W22-200
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EA-W23-103-83	EA-W70-420-70
EA-W23-203	EA-W70-420-71
EA-W23-203-83	EA-W70-520-70
EA-W23-303	EA-W70-520-71
EA-W23-303-83	EA-W70-A20-70
EA-W23-403	EA-W70-A20-71
EA-W23-403-83	EA-W82-170
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