



# H3-EM Electronic Locking Swinghandle

RFID card reader option · Latch status indicator

Single or multi-point latching

**Dual  
Frequency  
Reader**

Now Available

- Remote lock and unlock
- Momentary or continuous lock actuation
- Local monitoring with multi-color LED indicator
- Lock status outputs for remote monitoring
- Industry standard 25x150mm panel prep - kits for other panel preps available
- Integral key lock for manual over-ride
- Options for combined electronic lock and RFID card reader
- Reader recognizes existing employee 125kHz or 13.56 MHz RFID cards

## Notes

† See specific latch trade drawings for compatible card types

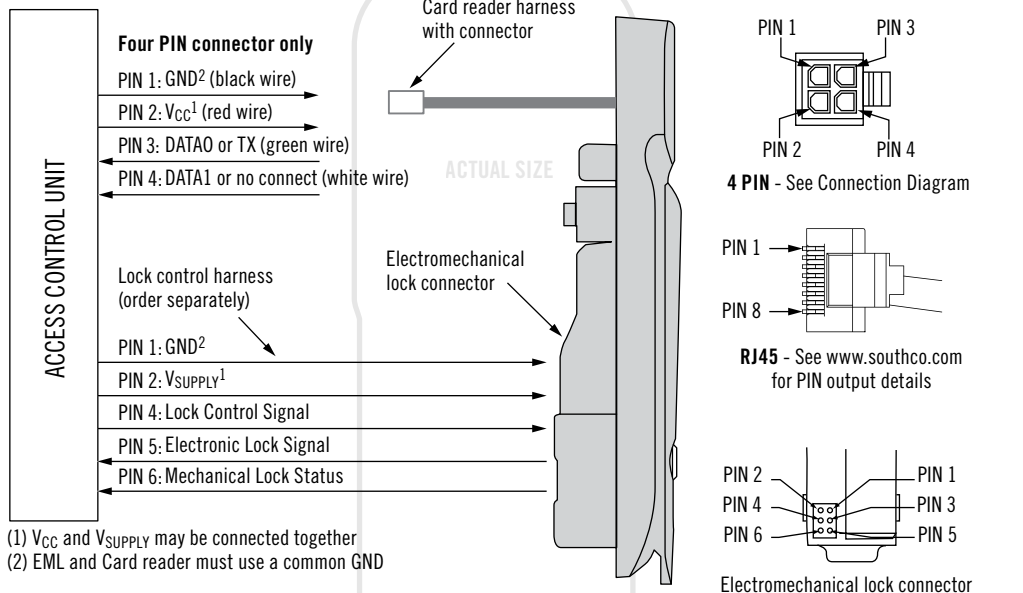
‡ PACS for MIFARE Classic 4k SE only

\*\* MIFARE, MIFARE Classic, MIFARE Plus and MIFARE DESFire are trademarks of NXP B.V.

\*\* HID iCLASS is a registered trademark of HID Global.

\*\*\* Remove '-10' for latch without Southco Logo

## Connection Diagram



(1) VCC and Vsupply may be connected together  
(2) EML and Card reader must use a common GND

## 5 Meter\* Wire Harnesses (order separately) \*Contact Southco for other lengths

| Part Number        | Latch Output                             | Termination                        | For R=        |
|--------------------|------------------------------------------|------------------------------------|---------------|
| EA-W01-500         | From Swinghandle                         | to Stripped and Tinned End         | All           |
| EA-W23-503         | From Wiegand or RS232 Output Card Reader | to Stripped and Tinned End         | 2, 6, 7, 8, 9 |
| EA-W23-503-83      | From Wiegand Output Card Reader          | to EA-P1-01X (Pin/Prox Controller) | 2, 6, 7, 8, 9 |
| EA-W01-23-507      | From Swinghandle and Card Reader         | to Stripped and Tinned End         | 2, 6, 7, 8, 9 |
| EA-W01-23-507-03   | From Swinghandle and Card Reader         | to Hirose 8-Pin Connector          | 2, 6, 7, 8, 9 |
| EA-W01-52-506-52-A | From Swinghandle and Card Reader         | to RJ45 Connector                  | 4, 5          |
| EA-W01-52-506-A    | From Swinghandle and Card Reader         | to Stripped and Tinned End         | 4, 5          |

## Part Number Selection

H3 - EM - 6 R - LLL - 10\*\*\*

### LLL Lock style

- 000 No lock or keys
- 001 Blank lockplug: Bright Chrome
- 003 Blank lockplug: Black powder coat

- 100 High security DIN lock
- 200 Key code CH751
- 300 Key code RS001 (Multiple RS key codes available)

## R Compatible Card Type Default \*\*\*

PACS = Physical Access Control System UID = Unique Identifier CSN = Card Serial Number

| R | MIFARE® Classic 4k  | MIFARE Plus® 2k | MIFARE® DESFire® 4k | HID® iCLASS | HID® 125kHz Prox | EM 125kHz Prox | Wiegand | 4 PIN | RJ45 |
|---|---------------------|-----------------|---------------------|-------------|------------------|----------------|---------|-------|------|
| 2 | UID                 | UID             | UID                 | UID         | CSN              |                | ✓       | ✓     |      |
| 4 | UID / PACS‡         | UID             | UID                 | PACS        |                  |                | ✓       |       | ✓    |
| 5 | UID / PACS‡         | UID             | UID                 | PACS        | CSN              | CSN            | ✓       |       | ✓    |
| 6 | UID                 | UID             | UID                 | UID         |                  |                | ✓       | ✓     |      |
| 8 |                     |                 |                     |             | CSN              |                | ✓       | ✓     |      |
| 0 | Without Card Reader |                 |                     |             |                  |                |         |       |      |

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



[www.southco.com/H3-EM](http://www.southco.com/H3-EM)



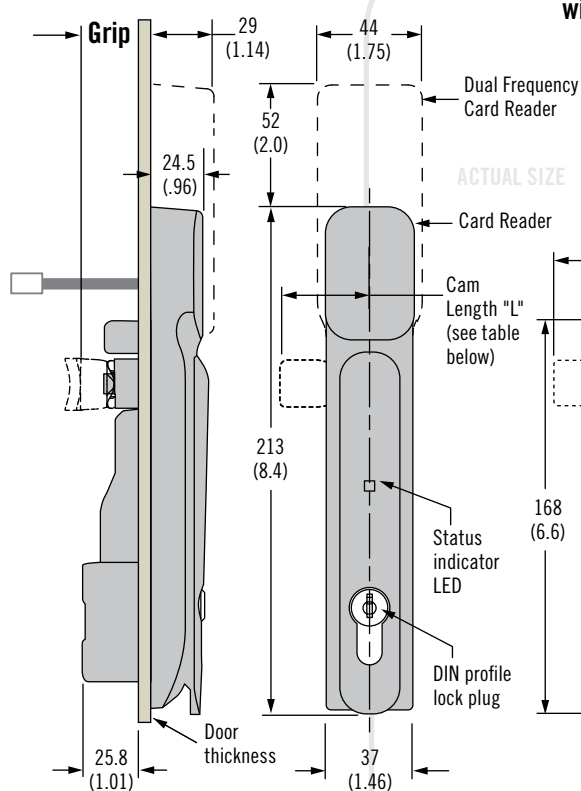
## Card Part Numbers

- EA-C1-011-9 (EM 125 kHz Prox card, 26 bit, 1.8 (0.07) thick)
- EA-C2-021-9 (HID® 125kHz card, 26bit, 1.8 (0.07) thick)\*\*
- EA-C3-101-9 (MIFARE® Classic 1k card, 4B CSN, 0.8 (0.03) thick)\*\*

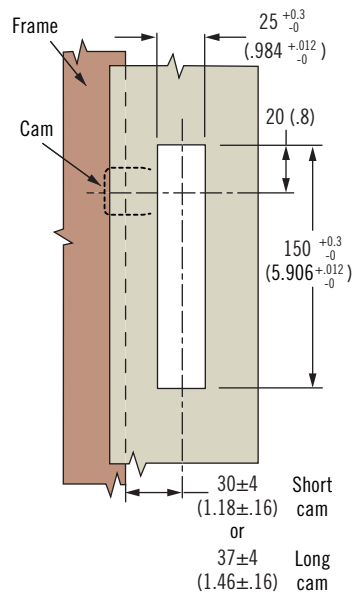
Dimensions in millimeters (inch) unless otherwise stated

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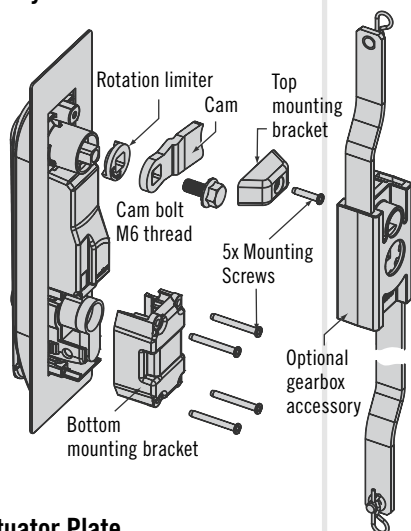
### Swinghandle with Card Reader



### Swinghandle without Card Reader



### Rod Systems



### Actuator Plate



#### Cam Part Number (Order separately)

| Grip       | Short Cam | Long Cam |
|------------|-----------|----------|
| 15.5 (.61) | E5-6710   | -        |
| 17.5 (.69) | E5-6711   | -        |
| 19.5 (.77) | E5-6712   | E5-6112  |
| 21.5 (.85) | E5-6713   | E5-6113  |
| 23.5 (.93) | E5-6714   | E5-6114  |

Other additional offsets:

- (1) See Southco Drawings J-E5-67-A & J-E5-67-B  
(2) See Southco Drawings J-E5-61-A & J-E5-61-B

#### Rod System Part Numbers (order separately)†

|              |                                 |
|--------------|---------------------------------|
| H3-61-55-33  | Left Hand Gearbox (CCW to open) |
| H3-61-56-33  | Right Hand Gearbox (CW to open) |
| A5-90-105-11 | Actuator Plate                  |

† For multi-point systems, select either the right or left hand gear box part number and rod adaptor (2 per door) part numbers or the actuator plate part number from table, then visit [www.southco.com/A5](http://www.southco.com/A5) for rod selection.

### Material & Finish

Glass-filled nylon, PC/ABS (UL94-V0)

Shaft, rotation limiter: Die-cast zinc, bright sealer

### Electronic Swinghandle

Recommended operating voltage: 12VDC to 24VDC

Typical operating current:

Less than 200mA at 12VDC

Peak / stall operating current: 1 Amp

Standby current: 50mA Max

Output Signal: 100mA Max load

### Card Reader Module

Supply voltage: 12VDC to 24VDC

H3-EM-62 Series Only at

12VDC  $\pm$  10%

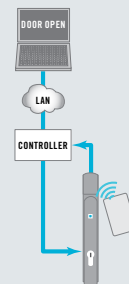
Operating current: 200mA Max

### To Order:

- 1 Select required Electronic Swinghandle part number using selection guide.
- 2 Select cam part number using cam part number table.
- 3 For multi-point applications, select optional gear box / rod adaptors or actuator plate.
- 4 Select optional wire harness.
- 5 Order cards as needed.

For standalone systems order Southco EA-P1-010 controller.

Contact Southco for details on ordering networked systems.



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



[www.southco.com/H3-EM](http://www.southco.com/H3-EM)