

H3-EM Modular Electronic Swinghandle

Modular Access Control Options
Single or multi-point latching

- **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**
- **Combine with easy install modular Reader (See EA-P5-30XXX RFID Card Readers.**

12V

24V

Material & Finish

Glass-filled nylon (UL94-V0), Black and PC/ABS (UL94-V0), Black
Shaft, Rotation Limiter: Zinc alloy, zinc plated and chromate

Electronic Swinghandle

Recommended operating voltage: 12VDC to 24 VDC
Typical operating current: less than 200mA at 12VDC
Peak/stall operating current: 1 Amp
Standby current: 50mA max Output signal: 100 mA max load

To Order:

1 Select required Electronic Swinghandle part number using selection guide.

2 Select card reader (EA-P5-30XXX)

3 Select cam part number using cam part number table

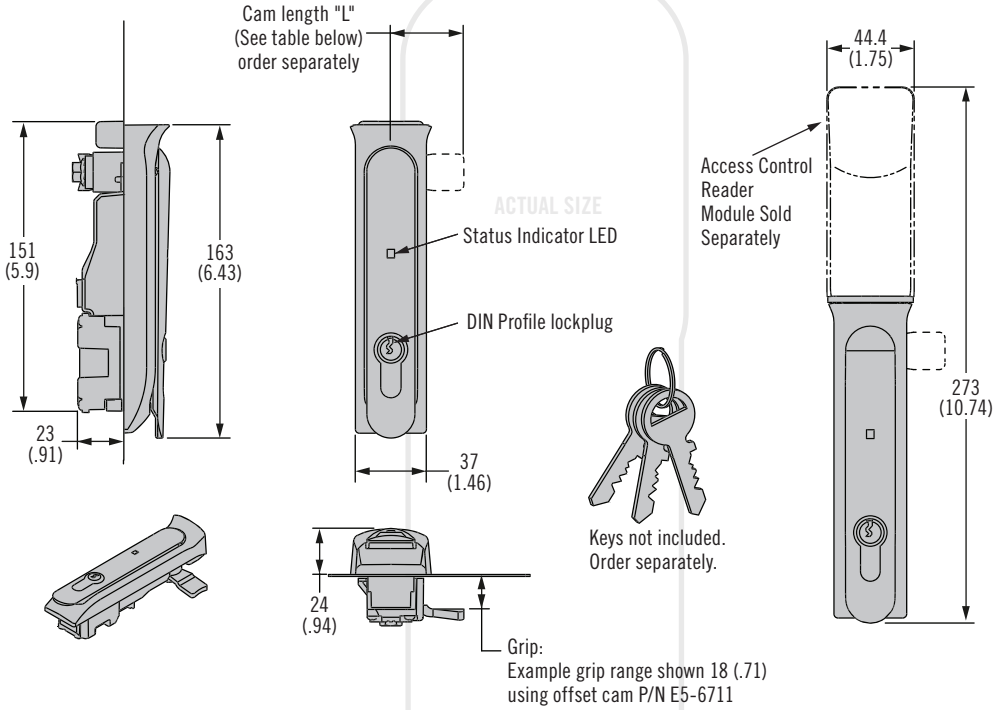
4 For multi-point applications, select optional gear box/rod adapters or actuator plates

5 Select optional wire harness

6 Select mechanical override keys.
P/N: PK-99-198-01 For HS DIN Lock
P/N: PK-10-01 for CH-751
P/N: PK10-01-RSXXX for RSXXX

Contact Southco for details on access control options

www.southco.com/H3-EM



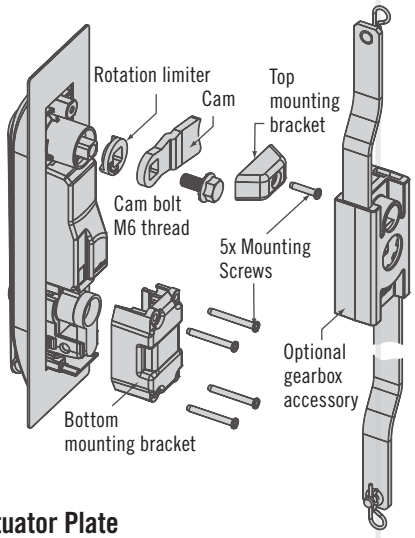
Part Number Selection

H3 - EM - 70000 - LLL

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)

Rod Systems



Actuator Plate



Cam Part Number (Order seperately)		
Grip	Short Cam L=38 (1.5)	Long Cam L=45 (1.77)
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 seperately)†	
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 for rod selection.

Dimensions in millimeters (inch) unless otherwise stated

southco®

Dual Frequency Reader Now Available

H3-EM Modular Access Control Readers

Meet evolving security requirements



- **Readers recognize existing employee 125kHz or 13.56 MHz RFID cards**
- **Readers interchangeable and all fit H3-EM Modular Swinghandles.**
- **Order separately from Swinghandle**

Card Reader Module

Supply Voltage: 12 VDC to 24 VDC
EA-P5-30200 Series Only at 12 VDC +/-10%
Operating Current: 200mA Max

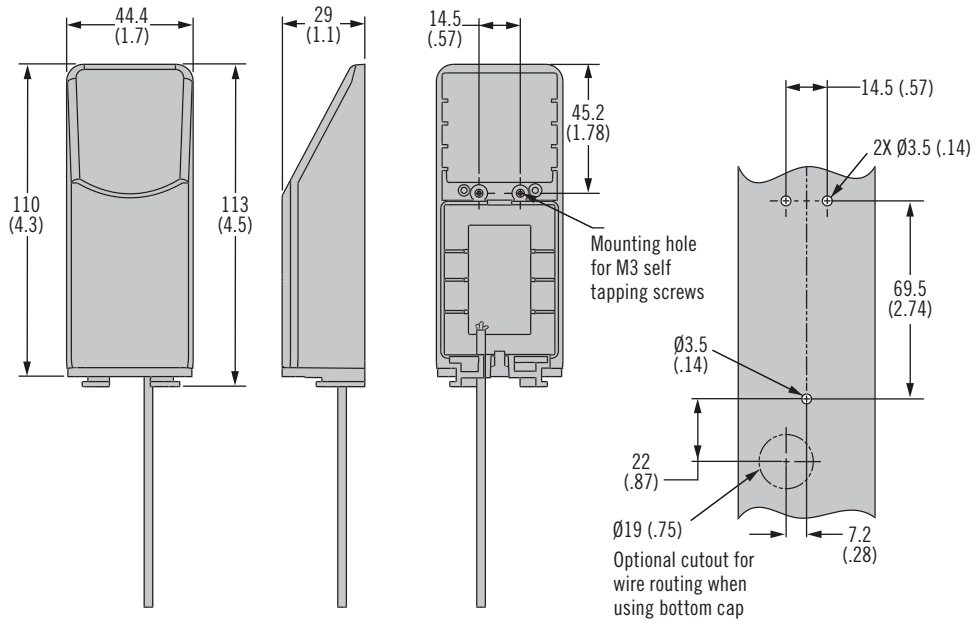
Material & Finish

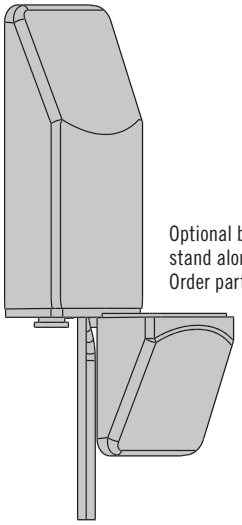
Glass-filled nylon (UL94-V0), Black, Polycarbonate, Clear Screws: Steel, zinc plated

Notes

*See specific Reader drawings at southco.com for compatible card types
**MIFARE, MIFARE Classic, MIFARE Plus, and MIFARE DESfire are trademarks of NXP B.V.
***HID iClass is a registered trademark of HID Global







Optional bottom cap for stand alone reader use.
Order part # EA-P5-300-31



Modular Electronic Swinghandle
Sold Separately



Additional reader options available contact southco for details.

EA - P5 - 30 R 00

R Compatible Card Type Default †** PACS = Physical Access Control System UID = Unique Identifier CSN = Card Serial Number							Output
R	*MIFARE*® Classic 4k	*MIFARE* Plus® 2k	*MIFARE*® DESFire® 4k	*HID*® iCLASS	HID® 125kHz Prox	EM 125kHz Prox	Wiegand
2	UID	UID	UID	UID	CSN		✔
6	UID	UID	UID	UID			✔
8					CSN		✔

Card Part Numbers
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)**



H3-EM Electronic Locking Swinghandle

RFID card reader option · Latch status indicator
Single or multi-point latching

SEOS Support Now Available

12V
24V

- **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**
- **Multifactor readers available - contact Southco for details**

Notes

† See specific latch trade drawings for compatible card types

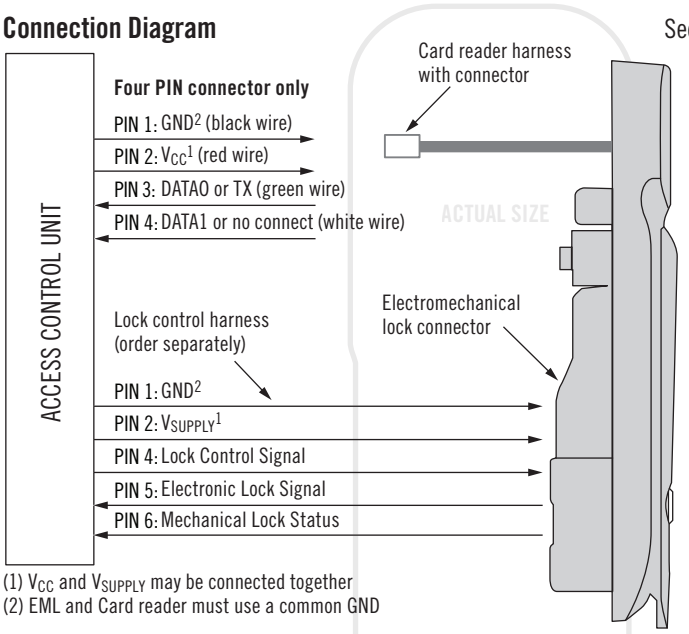
‡ PACS for *MIFARE* Classic 4k SE only

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

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

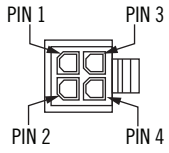
***Remove '-10' for latch without Southco Logo

Connection Diagram

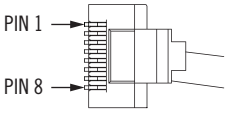


(1) V_{CC} and V_{SUPPLY} may be connected together
(2) EML and Card reader must use a common GND

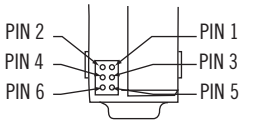
See Reader Connector options in table



4 PIN - See Connection Diagram



RJ45 - See www.southco.com for PIN output details



Electromechanical lock connector

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	0
EA-W23-503	From Wiegand or Output Card Reader	to Stripped and Tinned End	2, 6, 8
EA-W01-23-507	From Swinghandle and Card Reader	to Stripped and Tinned End	2, 6, 8
EA-W01-23-507-03	From Swinghandle and Card Reader	to Hirose 8-Pin Connector	2, 6, 8
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
100 High security DIN lock
200 Key code CH751
300 Key code RS001 (Multiple RS key codes available)

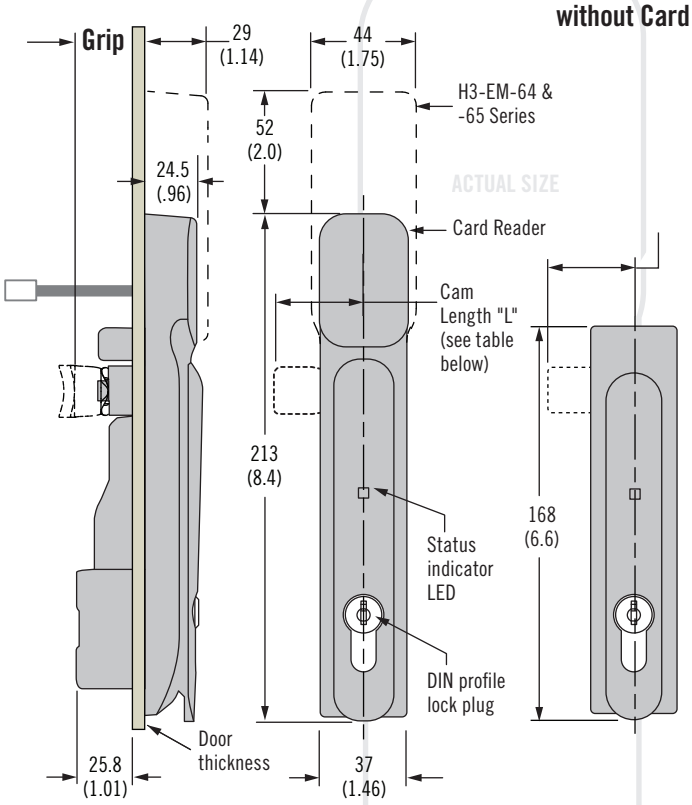
[R] Compatible Card Type Default †** PACS = Physical Access Control System UID = Unique Identifier CSN = Card Serial Number							Output	Reader Connector	
R	***MIFARE*® Classic 4k**	***MIFARE* Plus® 2k**	***MIFARE*® DESFire® 4k**	***HID*® iCLASS**	**HID® 125kHz Prox**	**EM 125kHz Prox**	**Wiegand**	**4 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**								

Card Part Numbers

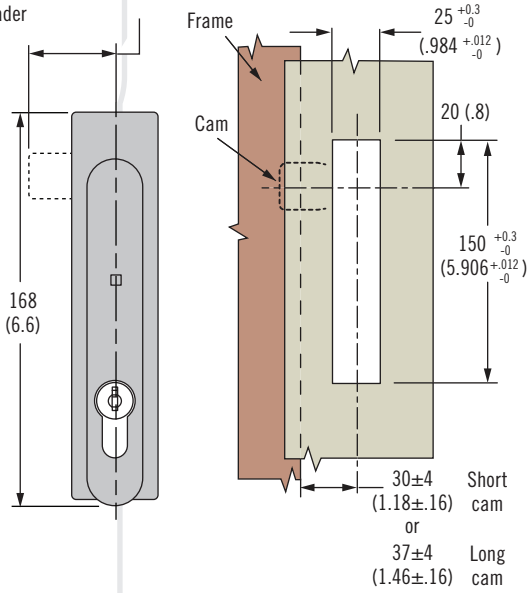
EA-C1-011-9 (EM 125 kHz Prox card, 26 bit, 1.8 (0.07) thick)
EA-C2-021-9 (*HID*® 125kHz card, 26bit, 1.8 (0.07) thick)**
EA-C3-101-9 (*MIFARE*® Classic 1k card, 4B CSN, 0.8 (0.03) thick)**

Dimensions in millimeters (inch) unless otherwise stated

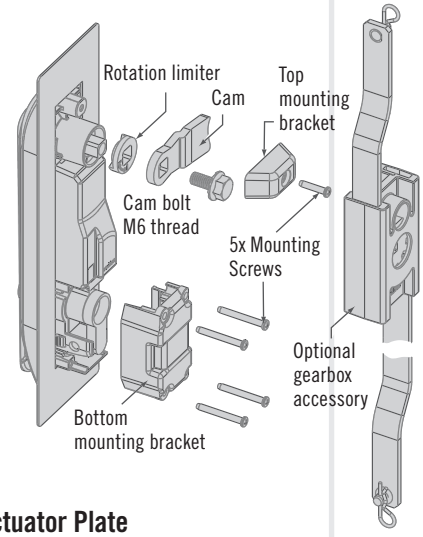
Swinghandle with Card Reader



Swinghandle without Card Reader



Rod Systems



Actuator Plate



Cam Part Number (Order seperately)		
Grip	Short Cam L=38 (1.5)	Long Cam L=45 (1.77)
15.5 (.61)	E5-6710	-
17.5 (.69)	E5-6711	-
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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 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 ± 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.

