

CRESCENT MOTOR DRIVE ELECTRIFIED MORTISE SET

IMPROVED FLEXIBILITY

- Universal output voltage
- Can easily be changed from FAIL SECURE to FAIL SAFE to adapt to design variations

MORE FUNCTIONALITY

State-of-the-art monitoring functions

LONGER LIFE

Adaptable to new technology

SAVE POWER, SAVE MONEY

A motor drive lock costs significantly less per year to operate at \$0.25, compared to a solenoid lock that costs \$8.33

STAY COOL

Low current draw produces minimal heat to eliminate "hot levers"

BE GREEN

Low power requirement is ideal for environmentally friendly control systems

IN GOOD COMPANY

 The same motor functionality is used by other trusted manufacturers including: Schlage, Sargent, Corbin Russwin, Hager, etc.

CRESCENT MOTOR DRIVE ELECTRIFIED MORTISE SET

THE GOLD STANDARD FOR HIGH RISK ENVIRONMENTS



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PAPERCLIP PROTECTION

Meets the Highest Safety Ratings

The Crescent Mortise Set has been recognized as Gold Standard hardware for behavioral healthcare facilitates by NYS-OMH*. This superior hardware solutions meets the industry's highest safety ratings including withstanding paperclip testing.



The Crescent Mortise set comes standard** with the High Security Mortise Lock which is proven to withstand over 300x more abuse than the Grade 1 requirement.



Available for use with the SilentPac[™] Lever Dampening Disc to help eliminate disturbance from door noise and improve the overall patient experience.



^{**} Grade 1 Locksets also available.

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THE EVOLUTION OF THE CRESCENT HANDLE

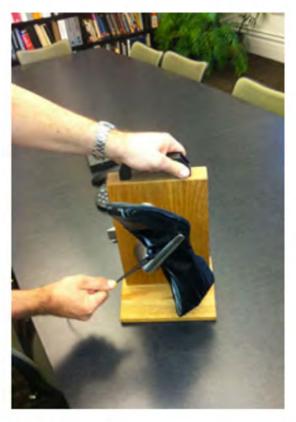
The patented Crescent Handle has quickly become the standard for ligature resistance and accessibility. Partnering with leading healthcare agencies and institutions around the country, Accurate has continually evolved the product to the superior hardware it is today.

| 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2

SUPERIOR SAFETY RATINGS

ACCEPTED BY NEW YORK STATE OFFICE OF MENTAL HEALTH PATIENT SAFETY STANDARD







Lever style trim is not appropriate for high risk areas. It is nearly impossible to completely avoid ligature opportunities with lever style door trim, even if designed to be ligature resistant. At best, lever style door trim is only appropriate for medium and low risk areas.*



As explained by the **NYS-OMH***

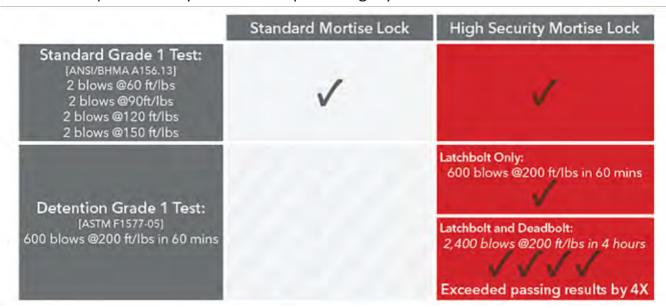
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STRONG

9100SEC HIGH SECURITY MORTISE LOCK (SUPPLIED STANDARD)

300X STRONGER

- Proven to withstand over 300x more abuse than the Grade 1 requirement*
- Originally developed to resist physical attack & vandalism in detention facilities
- For use in residential entrances, schools/universities, detention centers and healthcare facilities
- Ideal for new and retrofit installations
- Available in all functions and a variety of backsets
- Can be used with a variety of commercial, residential, and specialty trim in a standard ANSI mortise prep
- Conforms to Federal Specification FF-H-106 Series 86/87
- Achieve optimal safety without compromising style





*Grade 1 Mortise Locks can be furnished upon request.

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SILENT

COMPATIBLE WITH SILENTPAC™ LEVER DAMPENING DISC

- Acoustically engineered to reduce decibel levels, allowing healthcare environments to improve overall patient experience
- Simple retrofit of existing door hardware
- Silent lever return dampening diminishes noise while opening and closing doors
- Recipient of the Healthcare Design Gold Award and Nightingale Innovation Award for Architectural Products which recognizes contribution to the healthcare built environment through product design and innovation that contributes to healing.



Crescent Mortise Set with SilentPac™ Lever Dampening Disc



EQUAL TO AMBIENT NOISE

Handle operation adds zero decibels.



SIMPLE INSTALLATION

Ideal for both new doors and retrofit applications.



MAINTAIN AESTHETICS

Designed to be customizable based on your facilities' needs.

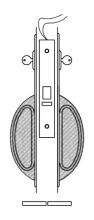




Note: SilentPac™ Quiet Lock 9100Q Grade 1 Mortise Lock available for Complete Quiet Package (not compatible with High Security Mortise Lock).

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CH M915XE-SEC Technical Details

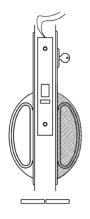


CH M9158E-SEC

Latch bolt by key either side. Auxiliary latch deadlocks latch bolt.

FAIL SECURE OPERATION*: Inside and outside trim unlocked when power is applied and locked when power is removed.

FAIL SAFE OPERATION: Inside and outside trim locked when power is applied and unlocked when power is removed. Lockset will unlock in the event of power failure.



CH M9159E-SEC

Inside trim always free.

Latch bolt by key outside.

Auxiliary latch deadlocks latch bolt.

FAIL SECURE OPERATION*: Outside trim unlocked when power is applied and locked when power is removed.

FAIL SAFE OPERATION: Outside trim locked when power is applied and unlocked when power is removed. Lockset will unlock in the event of power failure.

CH M9158E-SEC/CH M9159E-SEC for doors 1 $^3/_4$ " minimum (1 $^1/_4$ " armor front)

UL Listed 3 Hour (Mechanics R13846/R27504 and Electronics R10121)

Grade 1 Certified to ANSI/BHMA A156.13.2005 Standard

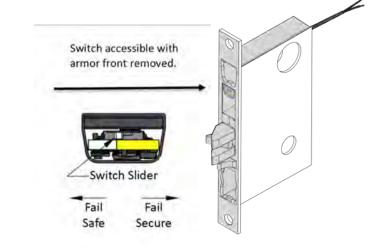
BACKSETS: 2 ³/₄", 3 ³/₄", 5", 6"

OPERATION: Key Cylinder (by others) will override electronics to retract latch

bolt

12-24V AC/DC (11V-30V Operating Range) 250mA MAX Inrush 10mA MAX Holding

*Lock is furnished as FAIL SECURE and can easily be changed to FAIL SAFE via the switch on the front.

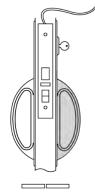


ALL FUNCTIONS AS LISTED FURNISHED WITH HIGH SECURITY DETENTION GRADE MORTISE LOCKS. FOR GRADE 1 LOCKS, PLEASE SPECIFY LESS -SEC SUFFIX (e.g. CH M9158E)

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Non-polarized Leads

CH M915XE-SEC Technical Details



CH M9156E-SEC

Inside trim always free.

Latch bolt by key outside.

Key cylinder (by others) will override electronics to retract latch bolt.

Auxiliary latch deadlocks latch bolt.

For passage mode, toggle can be set to keep outside lever unlocked. After unlocking lever with toggle, lever can only be re-locked by toggle, not by electronics.

FAIL SECURE OPERATION*: Outside trim unlocked when power is applied and locked when power is removed.

FAIL SAFE OPERATION: Outside trim locked when power is applied and unlocked when power is removed. Lockset will unlock in the event of power failure.

ALL FUNCTIONS AS LISTED FURNISHED WITH HIGH SECURITY DETENTION GRADE MORTISE LOCKS. FOR GRADE 1 LOCKS, PLEASE SPECIFY LESS -SEC SUFFIX (e.g. CH M9156E)

CH M9156E-SEC/CH M9156E-SEC for doors 1 $^3/_4$ " minimum (1 $^1/_4$ " armor front)

UL Listed 3 Hour (Mechanics R13846/R27504 and Electronics R10121)

Grade 1 Certified to ANSI/BHMA A156.13.2005 Standard

BACKSETS: 2 ³/₄", 3 ³/₄", 5", 6"

OPERATION: Key Cylinder (by others) will override electronics to retract latch

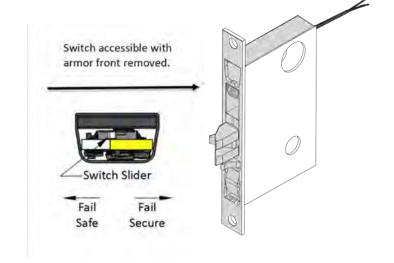
bolt

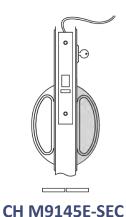
12-24V AC/DC (11V-30V Operating Range)

250mA MAX Inrush 10mA MAX Holding

Non-polarized Leads

*Lock is furnished as FAIL SECURE and can easily be changed to FAIL SAFE via the switch on the front.





Inside trim always free.

Latch bolt by key outside.

Key cylinder (by others) will override electronics to retract latch bolt. Auxiliary latch deadlocks latch bolt.

Rotating the key in one direction would place the lock in "unlocked" state (passage), blocking the electrified function.

Rotating the key in the opposite direction would return the lock to standard electrified operation.

FAIL SECURE OPERATION*: Outside trim unlocked when power is applied and locked when power is removed.

FAIL SAFE OPERATION: Outside trim locked when power is applied and unlocked when power is removed. Lockset will unlock in the event of power failure.

ALL FUNCTIONS AS LISTED FURNISHED WITH HIGH SECURITY DETENTION GRADE MORTISE LOCKS. FOR GRADE 1 LOCKS, PLEASE SPECIFY LESS -SEC SUFFIX (e.g. CH M9158E)

CH M9145E-SEC/CH M9145E-SEC for doors 1 $^3/_4$ " minimum (1 $^1/_4$ " armor front)

UL Listed 3 Hour (Mechanics R13846/R27504 and Electronics R10121)

Grade 1 Certified to ANSI/BHMA A156.13.2005 Standard

BACKSETS: 2 ³/₄", 3 ³/₄", 5", 6"

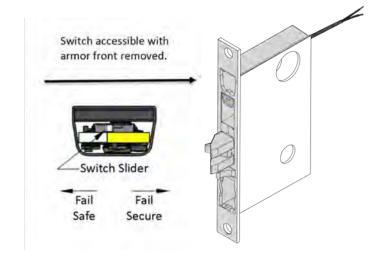
OPERATION: Key Cylinder (by others) will override electronics to retract latch

bolt

12-24V AC/DC (11V-30V Operating Range)

250mA MAX Inrush 10mA MAX Holding Non-polarized Leads

*Lock is furnished as FAIL SECURE and can easily be changed to FAIL SAFE via the switch on the front.



CH M9100E-SEC Monitoring Functions

AE - AUTHORIZED EGRESS

Also referred to as REQUEST TO EXIT (or REX switch), monitors the use of the INSIDE trim when the OUTSIDE trim is locked.

ELECTRICAL SPECIFICATIONS:

SPDT Mechanical switch

Voltage	Current		
125 VAC	1 AMP		

30 VDC 0.5 AMP

AM - DEAD LATCH MONITORING

Monitors the position of the dead latch. To activate switch, the lockset must be in the closed position with the auxiliary latch depressed and main latch extended.

ELECTRICAL SPECIFICATIONS:

SPDT Mechanical switch

Voltage	Current		
125 VAC	1 AMP		
30 VDC	0.5 AMP		

LM – LATCH BOLT MONITORING

Monitors the full extension of the main latch.

ELECTRICAL SPECIFICATIONS:

SPDT Mechanical switch

Voltage	Current	
125 VAC	1 AMP	
30 VDC	0.5 AMP	

LB – LOCKING BAR MONITORING

Monitors the position of the locking bar.

ELECTRICAL SPECIFICATIONS:

SPDT Mechanical switch

Voltage	Current	
125 VAC	1 AMP	
30 VDC	0.5 AMP	

CH M9100E-SEC Monitoring Functions

SM – SECURITY MONITORING

A combination of AM and LB, SM monitors IN SERIES* the status of the locking bar (locked or unlocked position) and the status of the auxiliary latch (dead latch position).

Lockset must be locked with the main latch extended and the auxiliary latch depressed to get a secure signal. If any of the conditions are not met, lockset goes into an unsecure mode.

ELECTRICAL SPECIFICATIONS:

2 each SPDT Mechanical switches wired in series

Voltage Current 125 VAC 1 AMP

30 VDC 0.5 AMP

DPS – DOOR POSITION SENSOR

Monitors the door position. A magnetic sensor mounted in the mortise lock reacts to the proximity of a magnet mounted behind the ASA strike.

ELECTRICAL SPECIFICATIONS:

SPDT Magnetic Reed switch

Voltage Current

28 VDC 0.3 A

^{*} If independent monitoring is required (not in series), please specify as SM2 (this is a combination of AM and LB)

CH M9100E-SEC Monitoring Functions

LPF - LOCK OUT PRIVACY MONITORING*

For FAIL SECURE locks only: One switch monitors safe side thumb turn hub. Engaging safe side turn piece disables remote access control unlocking (keypad or card reader) or scheduled unlock.

APPLICATIONS:

Enhanced security in office buildings after hours, SCIF/rooms housing sensitive information and opening subject to authorized access on a temporary basis.

Enhanced privacy in commercial buildings (for shared staff showers, restrooms, office, etc.) or for private residences with multiple service provider access (e.g. lock-out during vacation or need to immediately lock out specific user until system updates).

*FOR CH M9159E-SEC ONLY

Applies to: CH M9158E-SEC/CH M9159E-SEC All Backsets							
AE Authorized Egress Inside Hub	AM Dead Latch Monitoring	LB Locking Bar Monitoring	SM2 Security Monitoring AM + LB (6 Wires)	SM Security Monitoring AM + LB In Series (3 wires)	LM Latch Bolt Monitoring	DPS Door Position Monitoring	LPF Lock Out Privacy Monitoring (CH M9159E-SEC fail secure locks only
X	X	X			x	x	
X			X		x	x	
X				X	x	x	
X					X	X	X

CH M9100E-SEC Monitoring Function Matrix

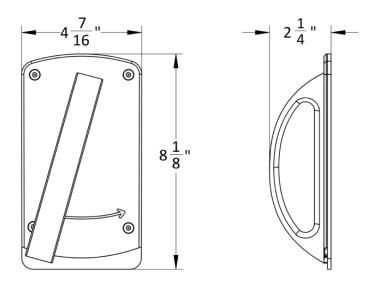
Applies to: CH M9156E-SEC All Backsets						
AE Authorized Egress Inside Hub	AM Dead Latch Monitoring	LB Locking Bar Monitoring	SM2 Security Monitoring AM + LB (6 Wires)	SM Security Monitoring AM + LB In Series (3 wires)	LM Latch Bolt Monitoring	DPS Door Position Monitoring
X	X	X			x	X
X			X		x	X
X				X	X	Х

Applies to: CH M9145E-SEC All Backsets				
AE Authorized Egress Inside Hub	LM Latch Bolt Monitoring	DPS Door Position Monitoring		
X	x	Х		

CRESCENT TRIM: SMALL PLATE (S.PC)

CH-S **SMALL PLATE** (Active)





CAN BE FURNISHED WITH ALL LOCK FUNCTIONS THAT REQUIRE AN ACTIVE HANDLE

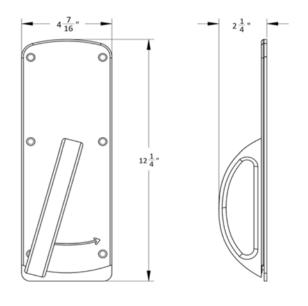
> CH TRIM FURNISHED BASED ON LOCK FUNCTION WHEN INDICATING S.PC (SEE HOW TO SPECIFY). RETROFIT PLATE OPTIONS AVAILABLE UPON REQUEST.

CRESCENT TRIM: LARGE PLATE (L.PC)





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CH-B **BLANK**



FURNISHED WITH LOCK FUNCTIONS: CH M9145E-SEC, CH M9156E-SEC, CH M9159E-SEC

CH-C **CYLINDER CUTOUT**



LOCK FUNCTIONS: CH M9145E-SEC, CH M9156E-SEC, CH M9158E-SEC, CH M9159E-SEC

FURNISHED WITH





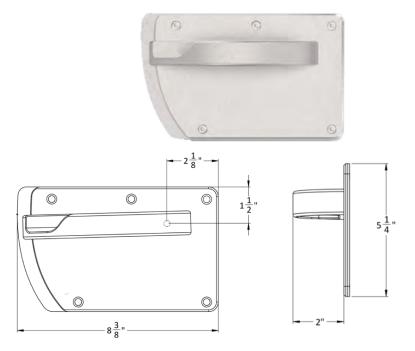
FURNISHED WITH LOCK FUNCTIONS: CH M9159E-SEC-LPF

(Lock Out Privacy Monitoring Only)

CH TRIM FURNISHED BASED ON LOCK FUNCTION WHEN INDICATING L.PC (SEE HOW TO SPECIFY). RETROFIT PLATE OPTIONS AVAILABLE UPON REQUEST.

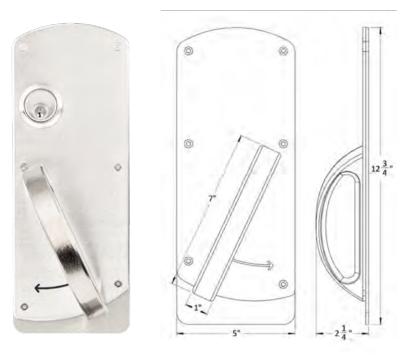
OTHER CRESCENT TRIM

HCH HORIZONTAL CRESCENT HANDLE



Operation and appearance of horizontal lever with a crescent shape for ligature resistance. Specify as HCH.

BA **BREAKAWAY TRIM**



Safety trim designed to work with antibarricade strategies including specialty stops (e.g. Kingsway, Pemko, etc). Specify as BA.

> CH TRIM FURNISHED BASED ON LOCK FUNCTION (SEE HOW TO SPECIFY). RETROFIT PLATE OPTIONS AVAILABLE UPON REQUEST.

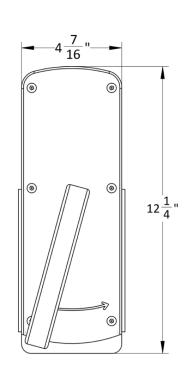
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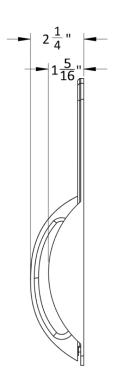
OTHER CRESCENT TRIM

Anti-vandal crescent trim provides additional protection with its 'winged' design, preventing damage caused by carts or other heavy items hitting the doors.

ANTI-VANDAL TRIM (L.PC)

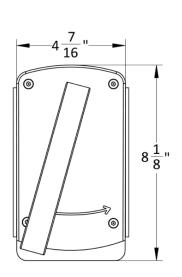


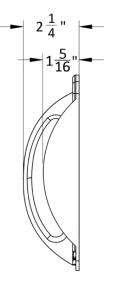




ANTI-VANDAL TRIM (S.PC)







CH TRIM FURNISHED BASED ON LOCK FUNCTION. SPECIFY AV AS SPECIAL OPTION (SEE HOW TO SPECIFY).

LIGATURE RESISTANT CYLINDER COLLARS

FOR MORTISE TYPE CYLINDERS

LRCC	
O.D. VARIES BASED ON THE "A" DIMENSION	
	VARIES BASED ON THE "A" DIMENSION $\frac{1}{8}$ $\frac{1}{32}$ "A"

Cylinder Length	P/N (for CH Mortise Sets with Active Crescent Plates)*
1 1/8"	LRCC.187
1 ¼"	LRCC.312
1 3/8"	LRCC.437
1 ½"	LRCC.562
OTHER	LRCC.A Indicate required thickness OR specify cylinder length and lockset from list below
	For Sets: CH M9145E-SEC CH M9156E-SEC CH M9158E-SEC CH M9159E-SEC

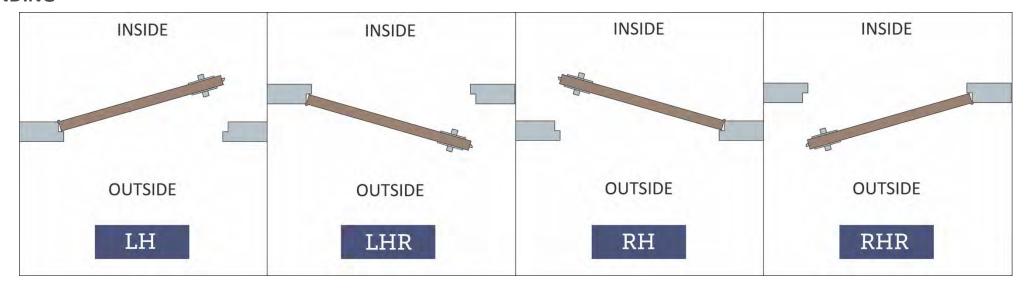
^{*}Part numbers/sizes are based on sets for 1 ¾" thick doors, using L-PC style Crescent plates.

SPECIFY LRCC.A AS SPECIAL OPTION BASED ON CYLINDER APPLICATION OR LENGTH (SEE HOW TO SPECIFY).

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HOW TO SPECIFY

HANDING

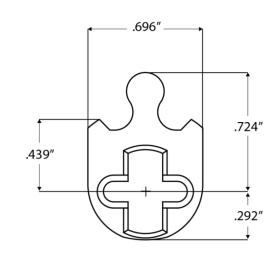


FINISHES

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Standard Finish US26D/US32D.

Please contact us regarding availability of other finishes.



CYLINDERS & KEYING

CH M9100E-SEC Mortise Sets accept any standard American mortise cylinder. For details on required cams and compatibility with other manufacturers' cylinders, please visit: Accurate Support.

Lever Dampening Disc

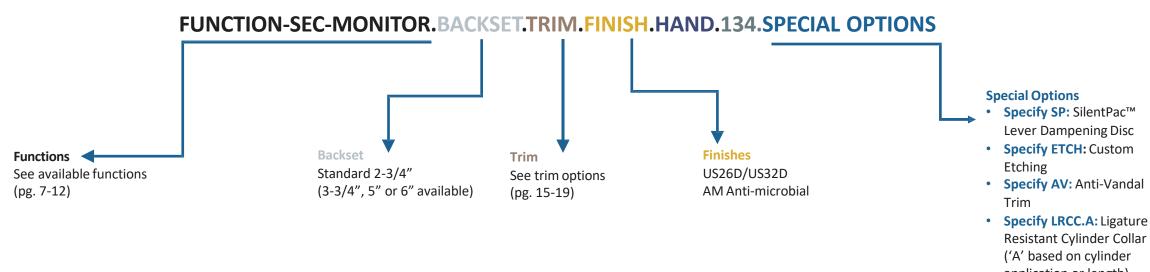
Resistant Cylinder Collar ('A' based on cylinder application or length)

Etching

Trim

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HOW TO SPECIFY



EXAMPLES

Crescent Handle | Electrified Lock | For Access Control Openings

E.g.: CH M9159E-SEC-AE.234.L.PC.US32D.RH.134

Crescent Handle | Electrified Lock | Both Sides with Deadlatch Monitoring | Add SilentPac

E.g.: CH M9158E-SEC-AM.234.S.PC.US32D.LH.134.SP

Crescent Handle | Electrified Lock | Passage Mode by Authorized Personnel Only

E.g.: CH M9145E-SEC.234.L.PC.US26D.RH.134

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ACCURATE LOCK & HARDWARE MANUFACTURERS OF LOCKS AND CUSTOM ARCHITECTURAL HARDWARE

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