

## ELECTRIFIED DEVICE

Mortise locks are widely used in both commercial and residential applications. BSI Mortise locks are graded for various applications by ANSI Grade.

### ELECTRIFIED MORTISE LOCKSET



**GRADE 1**



Underwriters Laboratories Inc.®



**MT5907-S**



**MT5985A-S  
MT5985A-M**



Latch bolt retracted by lever from either side unless outside lever is locked by key from outside.

Dead bolt operated by key outside or inside thumbturn.

Key outside can operate latch bolt.

Turning inside lever can retract both dead bolt and latch bolt simultaneously.

Dead bolt thrown or retracted by inside thumbturn. When dead bolt thrown by inside thumbturn, outside lever become inoperative.

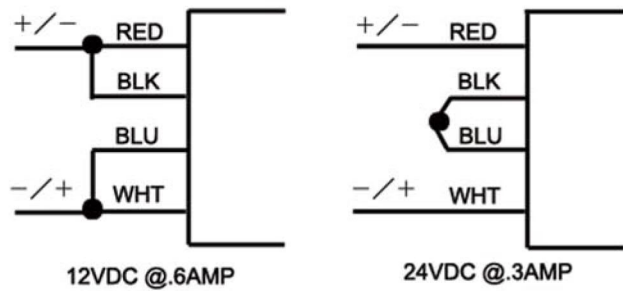
Auxiliary latch deadlocks latch bolt when door is closed.

Option outputs MT5985A-S / MT5907-S

- \* R-Request-To-Exit
- \* D-Door Position Status Output
- \* L-Latched & Locked Status Output
- \* C-Cylinder sensor output

- \* ELECTRIC LOCKSET WITH SOLENOID
- \* Field Selectable Voltage 12 or 24VDC
- \* Field Selectable Mode Failsafe or Failsecure
- \* Field Selectable Hand LH, RH, LHR, RHR

**STANDARD WIRING**  
Dual Coil Solenoid

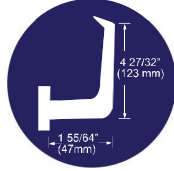


MT5985A-M motor spec. sheet.

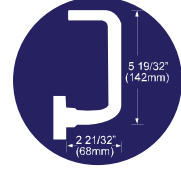
Voltage		No Load		Rated Load			Starting Torque (g-cm)	Starting Current (mA)
Operating range	Nominal	Speed (r.p.m)	Current (mA)	Speed (r.p.m)	Current (mA)	Torque (g-cm)		
2.5V~5.0V	4.5 Constant	16400	<50	12000	<175	3.0	>10.5	>600

## MORTISE TRIMS

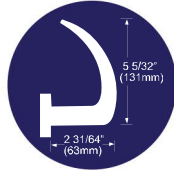
**LR01** Type : Rose Lever  
Finish: US32D



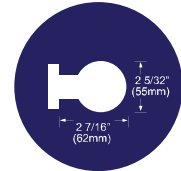
**LR02** Type : Rose Lever  
Finish: US32D



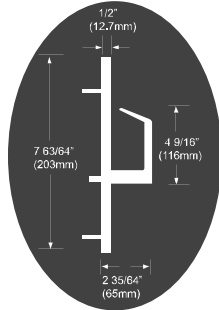
**LR17** Type : Rose Lever  
Finish: US32D



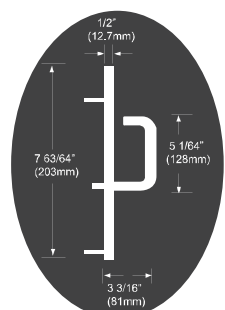
**LR31** Type : Rose Lever  
Finish: US32D



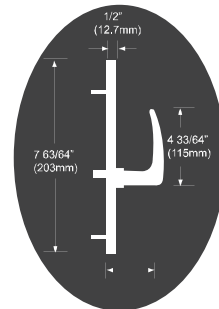
**LE01** Type : Escutcheon Lever  
Finish: US32D



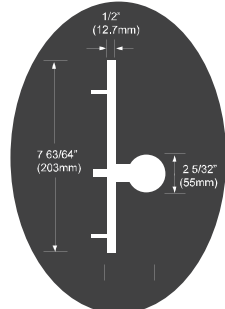
**LE02** Type : Escutcheon Lever  
Finish: US32D



**LE05** Type : Escutcheon Lever  
Finish: US32D



**LE31** Type : Escutcheon Lever  
Finish: US32D



**TRIM FINISHES**

	US3 (605) Bright Brass		US26 (625) Bright Chromium Plated
	US4 (606) Satin Brass		US26D (626) Satin Chromium Plated
	US10B (613) Rubbed Bronze		US32 (629) Bright Stainless Steel
	US10 (612) Satin Bronze		US32D (630) Satin Stainless Steel

**CYLINDERS**

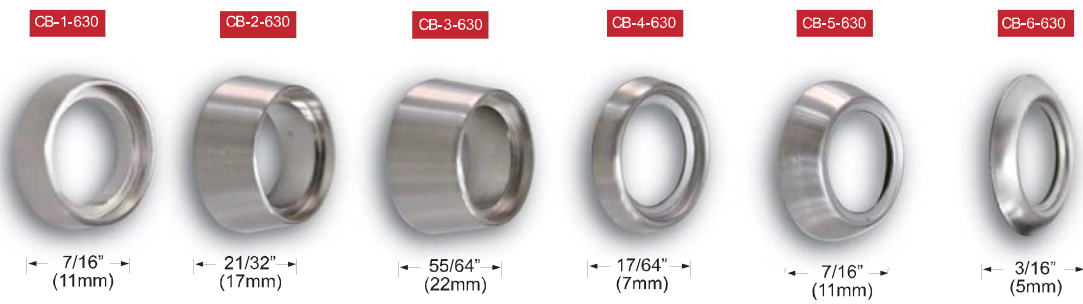


Type : Mortise Cylinder  
Length: 1"(25.9mm) ~3-2/8"(83.1mm)

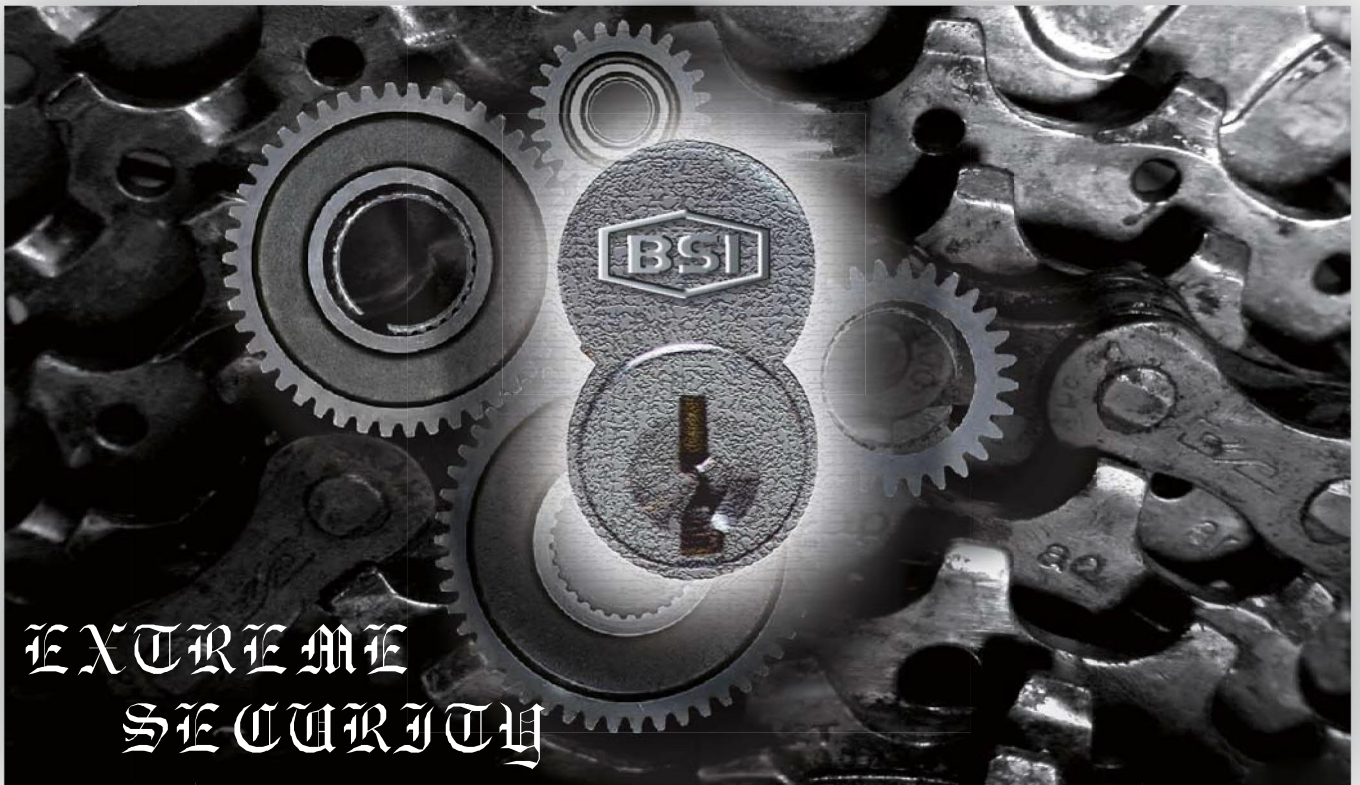
Type : Interchangeable Core Cylinder  
Length: 1 2/8"(32.3mm) ~3"(76.8mm)

Type : Thumbturn Cylinder  
Length: 1"(25.9mm) ~3-2/8"(83.1mm)  
Direction: LH or RH

**CYLINDER BASES**



# CYLINDER



**Application**

Integrated with Residential and Commercial door locksets.

**Operation**

Cam 360° rotation by operating Key or Thumbturn.

**Materials**

Body and Plug: Hardened Brass

Cam: Hardened Steel

Pins: Nickel Silver and Stainless Steel

**Standard Finish**

Bright Brass(US3) Satin Brass(US4)

Satin Nickel(US15)

Bright Chromium(US26)

Satin Nickel(US26D)

Bright Stainless Steel(US32)

Satin Stainless Steel(US32D)

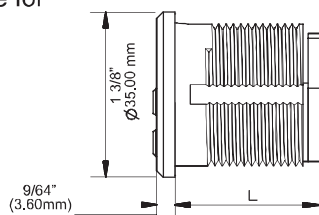
**Special Finish**

Customized Finish available based on BHMA Finish Codes.

**High Security Mechanism**

Precision pin tumbler system.

Pick/Drill resistance for premium security requirement.



**Mortise Cylinder**



**Interchangeable Core Cylinder**



**Dimension Chart:**

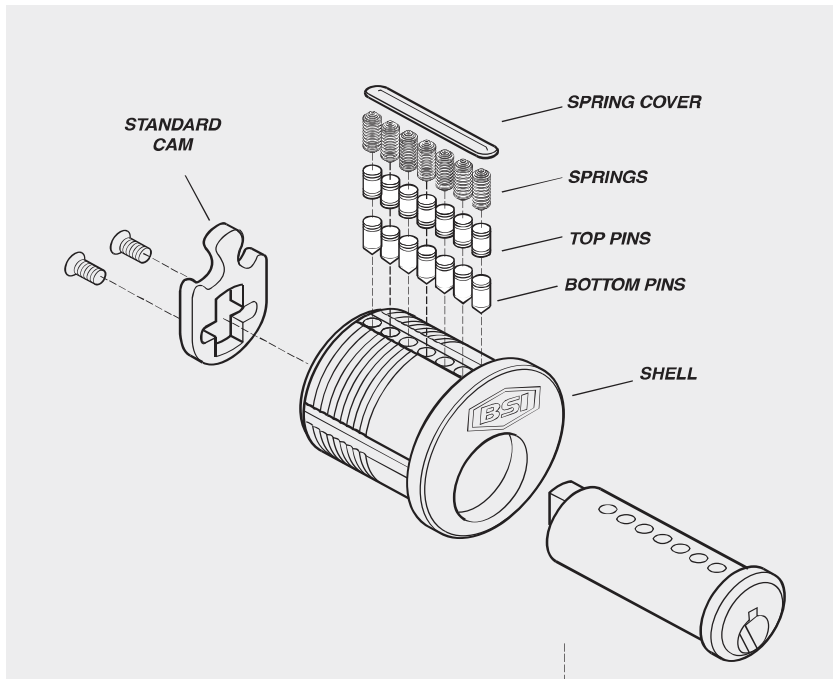
PIN	L	
	Inch	mm
5	1"	26.0
6	1-1/8"	29.1
6	1-2/8"	32.3
7	1-3/8"	35.5
7	1-4/8"	41.8
7	1-6/8"	45.0
7	1-7/8"	48.2
7	2"	51.3
7	2-1/8"	54.5
7	2-2/8"	57.7
7	2-3/8"	60.9
7	2-4/8"	64.0
7	2-5/8"	67.2
7	2-6/8"	70.4
7	2-7/8"	73.6
7	3"	76.7
7	3-1/8"	79.9
7	3-2/8"	83.1

PIN	L	
	Inch	mm
6	1-2/8"	32.3
7	1-3/8"	35.5
7	1-4/8"	41.8
7	1-6/8"	45.0
7	1-7/8"	48.2
7	2"	51.4
7	2-1/8"	54.5
7	2-2/8"	57.7
7	2-3/8"	60.9
7	2-4/8"	64.1
7	2-5/8"	67.2
7	2-6/8"	70.4
7	2-7/8"	73.6
7	3"	76.8

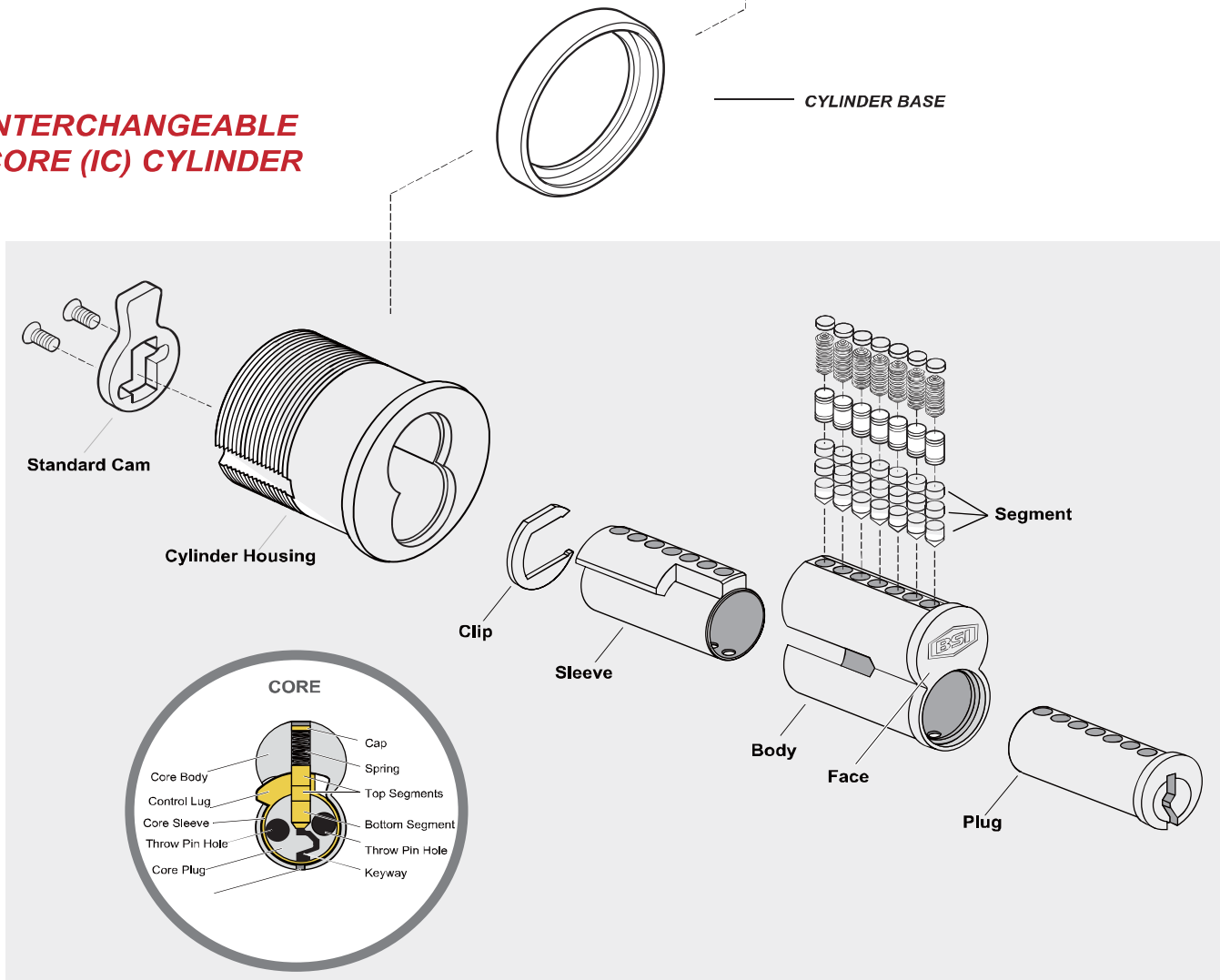
\* Customized length available.

EXPLODED DRAWINGS

**MORTISE CYLINDER**



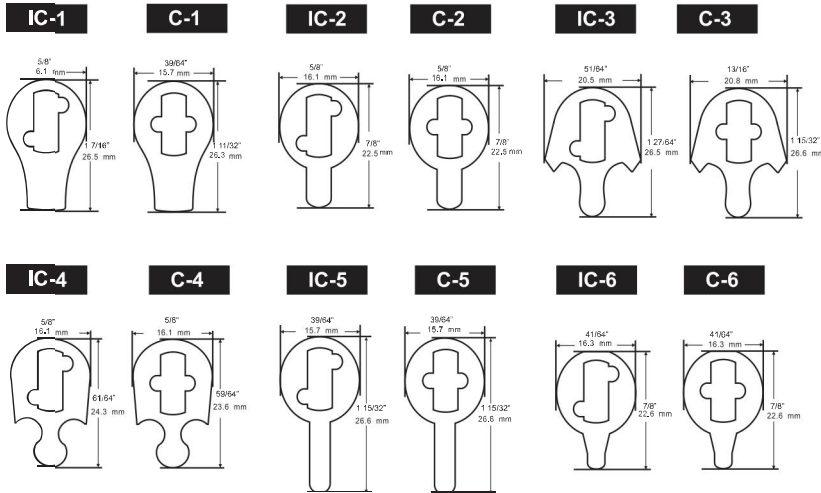
**INTERCHANGEABLE CORE (IC) CYLINDER**



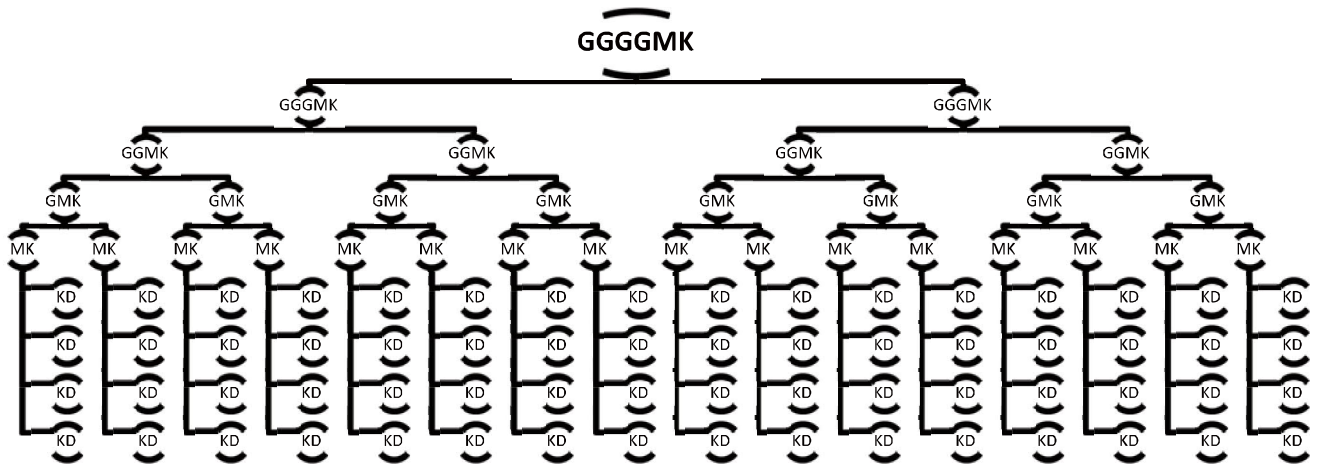
## CYLINDER BASES



## CAMS



## BSI KEY SYSTEM



## COMMON ACRONYMS

- |  |                                    |
|--|------------------------------------|
| <b>GGMK:</b> Great Grand Master Key          | <b>GMK:</b> Grand Master Key       |
| <b>MK:</b> Master Key                        | <b>NMK:</b> No Master Key          |
| <b>AAA:</b> Keyed Alike to a specific number | <b>KA:</b> Keyed Alike             |
| <b>KD:</b> Keyed Different                   | <b>X:</b> Cross Keyed              |
| <b>SKA:</b> Single Keyed Alike               | <b>SKD:</b> Single Keyed Different |

