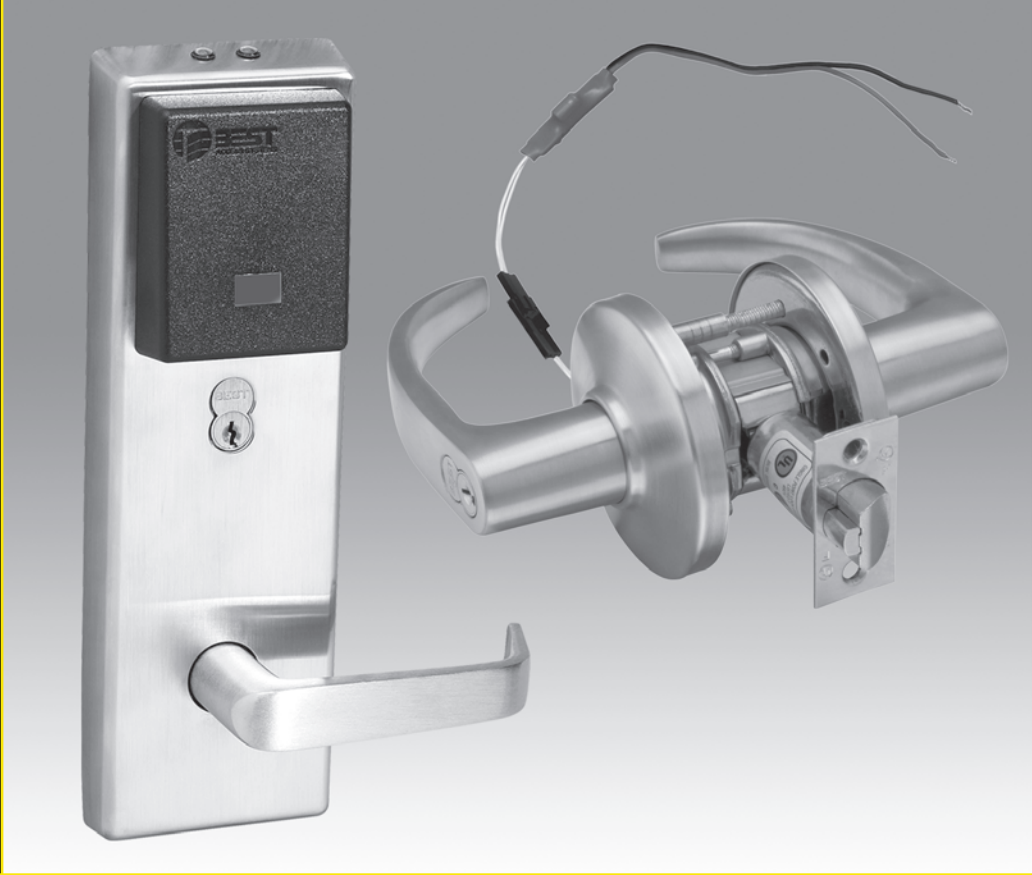


**STANLEY**  
Security Solutions



# W&M SERIES

IDH MAX® &  
ELECTROMECHANICAL LOCKS



IDH MAX® & ELECTROMECHANICAL LOCKS

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## IDH MAX® – INTRODUCTION

The IDH MAX® from Stanley Security Solutions offers convenience and efficiency for your electrified lock applications. Instead of installing reader devices, installing electrified strikes, installing door contacts and installing request-to-exit devices, you can now install the IDH MAX® in cylindrical or mortise lock applications. With IDH MAX® all of the formerly separate equipment needed to control access are self-contained in a single installation. The complexity of multiple wire runs is drastically reduced.

You can let Stanley Security Solutions show you how to MAXimize your access control system with the IDH MAX®! For the name and location of your local office, visit our web site at [www.stanleysecuritysolutions.com](http://www.stanleysecuritysolutions.com). IDH MAX® and W series locks (with the exception of the IDH Max® 1300) are compatible with Stanley's NT500 and B.A.S.I.S. Access Control Systems.

## IDH MAX® – FEATURES

### IDH Max® Features

- Includes latch and door position indicator, RQE switch.
- The 1300 option eliminates the need for a RIM (reader interface module) which is embedded behind the escutcheon
- Requires only one 4 conductor wire run
- Reduces number of components installed and visible at the door (PIR, RQE push buttons and door contacts)
- Installation time is reduced
- The RQE switch senses the inside lever/knob rotation.
- All of the door components are housed in one manufacturer's hardware
- With the elimination of components, only the lockset is visible at the door
- The reader is integrated into the lockset escutcheon
- Available in magnetic stripe and proximity readers
- Available in all popular lever/knob styles and finishes
- Operates with BEST interchangeable core as a mechanical override
- Integrates with many manufacturer's on-line EAC equipment

### Mortise Features

- Lock case meets the requirements as listed in the ANSI/ BHMA A156.13 standard for Series 1000, Grade 1 Operational and Grade 2 Security locks
- UL listed for GYQS Electrically controlled single point locks or latches for use on 3 hr, A label doors (4' x 10'). The listing applies for both U.S. and Canadian applications
- Door contact, request-to-exit, and latch status sensors positioned inside lock case
- The 1300 option eliminates the need for a RIM (reader interface module) which is embedded behind the escutcheon
- The door contact magnet is installed behind the strike and out of site (except when deadbolt option is ordered)
- All sensors are standard in IDH Max mortise locks
- The heavy duty design of the mortise lock makes easy field maintenance and reduces risk of part failure

### Mortise Features (continued)

- Twist off lever spindle design protect internal lock parts from damage and failure.
- Oil impregnated stainless steel <sup>3</sup>/<sub>4</sub>" anti-friction latchbolt reduces door closing force and wear.

### Cylindrical Features

- Non-handed levers allow for ease of installation
- Lock chassis meets the requirements as listed in the ANSI/ BHMA A156.2, standard for Series 4000 Grade 1 locks
- UL listed for GYQS Electrically controlled single point locks or latches for use on 3 hr, A label single doors (4' x 10) GYJB. The listing applies for both U.S. and Canadian applications
- Request-to-exit sensor positioned inside lock trim
- The ISC (Intelligent System Controller) is embedded behind the escutcheon secured and out of site
- Request-to-exit and door contact sensors are standard in IDH MAX cylindrical locks

### Magnetic Stripe Electronic Lock Features

- Durable material has teflon-like characteristics for increased life and wear resistance
- Variable read rate allows for easy usage

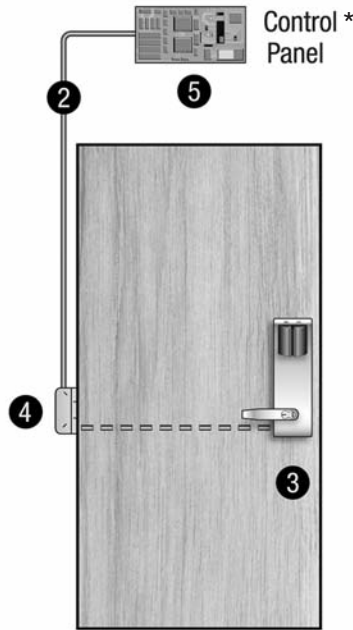
### Proximity Card Reader Features

- HID and Motorola/Indala proximity cards supported
- UL listed for GYQS Electrically controlled single point locks or latches.
- Usable in all environmental/exterior applications.

### 1300 Option Features

- Eliminates need for small panel interface module
- Eliminates reader interface board
- Incorporates 3 modules into a single electronics board inside IDH Max escutcheon trim
- Connects directly to ACP via 2 wire RS485 connection

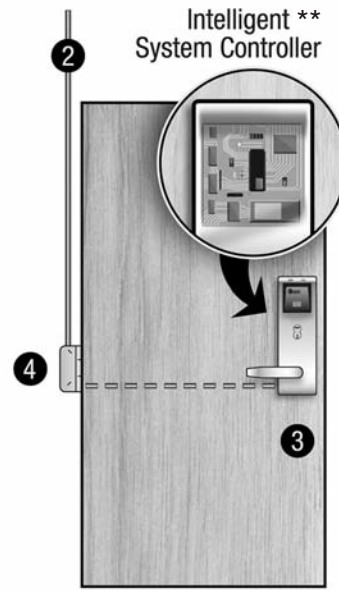
## IDH MAX® & IDH MAX® 1300 COMPARISON CHART



**IDH MAX®**

1. Prep door for IDH MAX®
2. Run single 4 conductor wire for IDH MAX®
3. Install IDH MAX®
4. Install electrified hinge
5. Mount control panel

\* Operates with any control panel hardware, including B.A.S.I.S. control panels.



**IDH MAX® 1300**

1. Prep door for IDH MAX®
2. Run single 4 conductor wire for IDH MAX® 1300
3. Install IDH MAX® 1300 which includes Intelligent System
4. Install electrified hinge

\*\* Operates with B.A.S.I.S. control panels only.

### HM, KM, HW & KW – OPTIONS

**AL**– Besides complying with a wide variety of accessibility codes and ordinances, lever handles are available with a special abrasive feature. Abrasive strip on the lever immediately identifies warnings on doors to hazardous areas for the blind.

**BRK**– When excessive force (approx. 300 inch lbs.) is applied to #4, #6 keyed knobs, they “breakaway” and spin freely, thus allowing entrance only by key. Simple part replacement returns lock to functional usage.

**IDH**– The integrated Door Hardware groups three components into one hardware package. **1**. Door monitoring switch (normally closed) **2**. Request-to-Exit switch (normally open) **3**. Electrically controlled locking mechanism.

**KNL**– Knurl feature is available only on #6 knobs. The knurling is machined into the outer edge of the knob. The knurled feature can be used for blind, safety, or accessibility applications.

**LL**– Lead lined feature can be used to protect against X-rays. Since the majority of lead lined doors contain the lead in the surface of the door, the knob lockset provide lead lining for the holes cut in the door when preparing the door for the trim.

**LM**– The Lost Motion feature allows the lever handle to move 45 degrees from parallel to the horizontal plane without engaging the latchbolt assembly. When the lockset is in the locked mode, this feature makes over-torque or over-lever-age abuse more difficult to achieve.

**SH**– Security head provided for all exposed screws.

**RQE**– Cylindrical or Mortise locksets can be supplied with a request-to-exit switch. A normally open switch provides momentary switch closure when the inside lever/knob is rotated.

**TAC**– Grooves are machined into knobs to improve grip or to be used as a warning in hazardous areas. This option can be used for blind, safety or accessibility applications.

**Thick door**– Specify thickness if other than 1 3/4”.

**TL**– Tactile levers may be used in areas where improved grip is required or as a warning in hazardous or Safety First areas. Grooves are machined into the back of the hand grasp portion of the lever to improve grip and/or provide a sensory warning. This option can be used for blind, safety, or accessibility applications.

**1300**– Integrated BAS1300/LNL1300 reader electronics board or (ISC) Intelligent System Controller is embedded behind the escutcheon secured and out of site. Functions with B.A.S.I.S./Mercury on-line equipment only.

## 40HM IDH MAX® – SPECIFICATIONS MECHANICAL

- Case**— Heavy wrought steel, 5 7/8" H x 4 1/4" D x 1" W steel parts are zinc dichromate plated for corrosion protection.
- Faceplate**— Brass or bronze, 1 1/4" x 8" x 7/32". Armored. Adjustable from flat to beveled 1/8" - 2".
- Strike**— Brass, bronze or Stainless Steel, 4 7/8" x 1 1/4" x 3/32". Fits standard door frame cut out as specified in ANSI A115.1. Correct strike automatically supplied with unit. Strike box supplied standard.
- Door thickness**— For doors 1 3/4" – 4" thick.
- Installation**— Lock requires modified door prep to mount the trim. Faceplate dimensions fit standard door preparation as specified in ANSI A115.1., Lockset is reversible for hand of door.
- Latchbolt**— Stainless steel, 3/4" throw with anti-friction latch.
- Deadbolt**— Solid stainless steel, 1" throw.
- Auxiliary bolt**— Stainless steel.
- Die cast trim housing**— Dimensions: 10 3/8" H x 3 1/4" W x 1" D sloping down to 3/4".
- Knobs**— Diameter: 2 1/8" Projection on door: 2 7/8"  
**#4, #6 knobs:** Material machined from brass or bronze.
- Lever handle**— Brass, bronze or stainless steel. (Lever #3, #14 and #15 conform to California Titles 19 and 24.)
- Mounting**— Knob and lever attached with hardened set screw on inside knob or inside lever.
- Finish**— **605**-bright brass, clear coated; **606**-satin brass, clear coated; **611**-bright bronze, clear coated; **612**-satin bronze, clear coated; **613**-oxidized satin bronze, oil rubbed; **625**-bright chromium plated; **626**-satin chromium plated; **629**-bright stainless steel; **630**-satin stainless steel; **690**-dark bronze.



**45HM IDH MAX® Mortise**

## ELECTRONIC

- Maximum current draw:** 1.1 Amp for 50 milliseconds
- Typical current draw (hold condition):** 650 milliAmps
- Voltage:** 10.2 to 13.2 V (DC only)
- Operating Temperature:** Minimum/Maximum range **Inside:** 70° ± 4°F (21° ± 2°C) **Outside:** -31°F (-35°C) to +151°F (+66°C)



### Magnetic Stripe Card Reader:

- Read Rate:** 5 inches per second to 50 inches per second.
- Card thickness:** ISO standard .030" ± .003 thick.
- Compliance to FCC, Canadian, and European EMC requirements; for interference FCC Class A digital apparatus.
- Magnetic Stripe adaptation:** Trim option that can accept other manufacturers cylinder.

### Proximity Reader:

- ANSI/BHMA A156.25 compliant. Compatible with Motorola / Indala and HID proximity cards. ABA and Wiegand output.
- Weatherproof bezel and gasket provide protection for outdoor use. (Usable in all environmental/exterior applications)
- Card Read Range:** 0 – 3 inches. Compliance to US FCC, Canadian FCC, and European EMC requirements
- ESD Protection:** 15 Kilo Volt

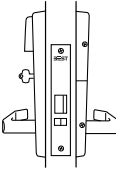
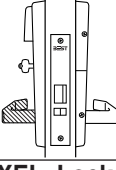
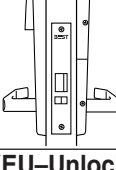
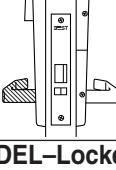
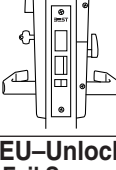


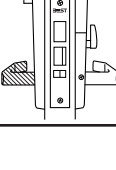
## 40HM IDH MAX® – HOW TO ORDER

45HM Series	7 Core Housing	DEU Function	14 Lever/Knob Style	MS Trim Style	626 Finishes †	RH Handing	KNL Options †
45HM-IDH Max™	0- Keyless or less cylinder, 7- 7 pin housing ONLY	DEL- electrically locked DEU- electrically unlocked NXEL- electrically locked NXEU- electrically unlocked TDEL- electrically locked TDEU- electrically unlocked LEL- electrically locked LEU- electrically unlocked (page 5)	<b>Levers</b> 3- solid tube return 12- solid tube 14- curved return 15- curved angle return 16- curved no return 17- gullwing no return <b>Knobs</b> 4- round (page 11)	<b>MS</b> - magnetic stripe <b>PM</b> - proximity Motorola <b>PH</b> - proximity HID <b>MSA</b> - other cylinder <b>PHA</b> - other cylinder <b>PMA</b> - other cylinder (page 11)	<b>605 606</b> <b>611 612</b> <b>613 618</b> <b>619 625</b> <b>626 690</b>	<b>RH</b> <b>RHRB</b> <b>LH</b> <b>LHRB</b>	<b>SH</b> - security head screws <b>TAC</b> - tactile lever <b>Thick</b> <b>Door</b> - specify thickness if other than 1 3/4" <b>7/8" LTC</b> - flat lip strike <b>1300</b> - B.A.S.I.S. direct connect (page 3)

\*\*Must specify key mark and number of keys or designate L/C for less core. †See H Series catalog for details.



## 40HM IDH MAX® – FUNCTIONS

Function	Latch	Outside Knob/Lever		Inside Knob/Lever	
	Operated by	Locked by	Unlocked by	Locked by	Unlocked by
<b>DEL–Locked Fail Safe</b> 	<ul style="list-style-type: none"> <li>• Outside knob/lever when power is removed from the solenoid</li> <li>• Outside key</li> <li>• Inside knob/lever.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Applying power to the solenoid; remains locked while power is on.	Removing power from the solenoid	Cannot be locked	Always unlocked
Powered by 12V DC. temperature control module is not needed.					
<b>DEU–Unlocked Fail Secure</b> 	<ul style="list-style-type: none"> <li>• Outside knob/lever when power is applied to the solenoid</li> <li>• Outside key</li> <li>• Inside knob/lever.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Removing power from the solenoid	Applying power to the solenoid; remains unlocked while power is on.	Cannot be locked	Always unlocked
Powered by 12V DC. temperature control module is not needed.					
<b>NXEL–Locked Fail Safe</b> 	<ul style="list-style-type: none"> <li>• Outside knob/lever when power is removed from the solenoid</li> <li>• Inside knob/lever.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Applying power to solenoid; remains locked while power is on.	Removing power from the solenoid	Cannot be locked	Always unlocked
Powered by 12V DC. temperature control module is not needed.					
<b>NXEU–Unlocked Fail Secure</b> 	<ul style="list-style-type: none"> <li>• Outside knob/lever when power is applied to the solenoid</li> <li>• Inside knob/lever.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Removing power from the solenoid	Applying power to the solenoid; remains unlocked while power is on.	Cannot be locked	Always unlocked
Powered by 12V DC. temperature control module is not needed.					
<b>TDEL–Locked Fail Safe</b> 	<ul style="list-style-type: none"> <li>• Outside key</li> <li>• Outside knob/lever when power is removed from the solenoid.</li> <li>• Inside knob/lever.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Applying power to the solenoid; remains locked while power is on.	Removing power from the solenoid	Cannot be locked	Always unlocked
<p><b>Deadbolt operated by:</b></p> <ul style="list-style-type: none"> <li>• Outside key</li> <li>• Inside thumb turn</li> </ul>			<p><b>Deadbolt and Latchbolt retracted simultaneously by:</b></p> <ul style="list-style-type: none"> <li>• Inside knob/lever</li> <li>• Outside knob/lever when power is removed</li> </ul>		
Powered by 12V DC. temperature control module is not needed.					
<b>TDEU–Unlocked Fail Secure</b> 	<ul style="list-style-type: none"> <li>• Outside key</li> <li>• Outside knob/lever when power is applied to the solenoid</li> <li>• Inside knob/lever.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Removing power from the solenoid	Applying power to the solenoid; remains locked while power is on.	Cannot be locked	Always unlocked
<p><b>Deadbolt operated by:</b></p> <ul style="list-style-type: none"> <li>• Outside key</li> <li>• Inside thumb turn</li> </ul>			<p><b>Deadbolt and Latchbolt retracted simultaneously by:</b></p> <ul style="list-style-type: none"> <li>• Inside knob/lever</li> <li>• Outside knob/lever when power is applied</li> </ul>		
Powered by 12V DC. temperature control module is not needed.					
<b>LEL–Locked Fail Safe</b> 	<ul style="list-style-type: none"> <li>• Outside knob/lever when power is removed from the solenoid</li> <li>• Inside knob/lever.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Applying power to the solenoid; remains locked while power is on.	Removing power from the solenoid	Cannot be locked	Always unlocked
<p><b>Deadbolt extended by:</b></p> <p>Inside thumb turn</p>			<p><b>Deadbolt retracted by:</b></p> <ul style="list-style-type: none"> <li>• Inside thumb turn</li> <li>• Inside knob/lever retracts the deadbolt and latchbolt simultaneously</li> <li>• Outside lever when power is removed</li> </ul>		
Powered by 12V DC. temperature control module is not needed.					
<b>LEU–Unlocked Fail Secure</b> 	<ul style="list-style-type: none"> <li>• Outside knob/lever when power is applied to the solenoid</li> <li>• Inside knob/lever.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Removing power from the solenoid	Applying power to the solenoid; remains locked while power is on.	Cannot be locked	Always unlocked
<p><b>Deadbolt extended by:</b></p> <p>Inside thumb turn</p>			<p><b>Deadbolt retracted by:</b></p> <ul style="list-style-type: none"> <li>• Inside thumb turn</li> <li>• Inside knob/lever retracts the deadbolt and latchbolt simultaneously</li> <li>• Outside knob/lever when power is applied</li> </ul>		
Powered by 12V DC. temperature control module is not needed.					

## 9KM IDH MAX® – SPECIFICATIONS

### MECHANICAL

- Materials**— Internal parts are brass, zinc or corrosion-treated steel.
- Chassis**— 2 1/16" diameter to fit 2 1/8" diameter hole in door.
- Strike**— Brass or bronze, 4 7/8" x 1 1/4" x 3/32". Fits standard door frame cut out as specified in ANSI A115.1. Correct strike automatically supplied with unit.  
Strike box supplied standard.
- Backset**— 2 3/4" standard, 3 3/4" and 5" available.
- Door thickness**— For doors 1 3/4" – 2 1/4"
- Installation**— Lock dimensions requires modified door prep ANSI A156.2 Series 4000, Grade 1 to mount housing.
- Latchbolt**— 9/16" throw.
- Die cast trim housing**— Dimensions: 10 3/8" H x 3 1/4" W x 1" D sloping down to 3/4".
- Knobs**— Diameter: 2 1/8" Projection on door: 2 7/8"  
#4, #6 knobs: Material machined from brass or bronze.
- Lever handle**— Made from high-quality zinc alloy. Body is approximately 1 5/8" in diameter: Handle is approximately 4 3/4" in length (from center-line of chassis). (Lever #14,15 conform to California Titles 19 and 24.)
- Finish**— 605-bright brass, clear coated; 606-satin brass, clear coated; 611-bright bronze, clear coated; 612-satin bronze, clear coated; 613-oxidized satin bronze, oil rubbed  
625-bright chromium plated; 626-satin chromium plated; 690-dark bronze.



93KM IDH MAX® Cylindrical

### ELECTRONIC

- Maximum current draw:** 850 MilliAmps, for 50 milliseconds
- Typical current draw (hold condition):** 550 milliAmps
- Voltage:** 10.2 to 13.2 V
- Operating Temperature:**  
Minimum/Maximum range **Inside:** 70° ± 4°F (21° ± 2°C) **Outside:** -31°F (-35°C) to +151°F (+66°C)



### Magnetic Stripe Card Reader:

- Read Rate:** 5 inches per second to 50 inches per second.
- Card thickness:** ISO standard .030" ± .003 thick. Compliance to FCC, Canadian, and European EMC requirements; for interference FCC Class A digital apparatus.
- Magnetic Stripe adaptation:** Trim option that can accept other manufacturers cylinder.

### Proximity Reader:

- ANSI/BHMA A156.25 compliant, Compatible with Motorola / Indala and HID proximity cards, ABA and Wiegand output
- Weatherproof bezel and gasket provide protection for outdoor use. (Usable in all environmental/exterior applications).
- Card Read Range:** 0 – 3 inches. Compliance to US FCC, Canadian FCC, and European EMC requirements
- ESD Protection:** 15 Kilo Volt

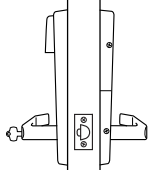
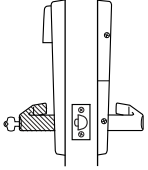
## 9KM/8KM IDH MAX® – HOW TO ORDER

93KM	7	DDEU	14	MS	STK	626	TL
Series	Core Housing	Function	Lever*/Knob Style	Trim* Style	Strike Package	Finishes*	Options
<b>Lever</b> 93KM– 2 3/4" 94KM– 3 3/4" 95KM– 5"  <b>Knob</b> 83KM– 2 3/4" 84KM– 3 3/4" 85KM– 5"	0– keyless 7– 7 pin housing accepts all BEST cores	DDEU– elec- trically- unlocked DDEL– elec- trically- locked	<b>Lever</b> 14– curved return 15– contour angle return 16– curved no return  <b>Knob</b> 4– round 6– tulip	MS– magnetic stripe PM– proximity Motorola PH– proximity HID	STK– 2 3/4" ANSI S3– 4 7/8" ANSI	605 606 611 612 613 618 619 625 626 690	<b>8KM:</b> BRK – breakaway knob KNL – knurled knob TAC – tactile knob <b>9KM:</b> AL – abrasive lever LM – lost motion TL – tactile lever Note: specify inside (I), outside (O), or both (B) for AL, TL,TAC, KNL options <b>Both 8KM &amp; 9KM:</b> SH – security head screws 3/4 – 3/4" throw latch 1300 – Integrated BAS1300/ LNL1300 reader electronic board
		(page 7)	(page 11)	(page 11)			(page 3)

\* Handles and trim are made from a zinc alloy, and have been plated to be equivalent in appearance to the finishes listed.



## 9KM IDH MAX® – FUNCTIONS

Function	Latch	Outside Knob or Lever		Inside Knob or Lever	
	Operated by	Locked by	Unlocked by	Locked by	Unlocked by
<b>DDEL–Locked</b> 	<ul style="list-style-type: none"> <li>Rotating the inside knob/lever,</li> <li>Rotating the outside knob/lever—only when power is off,</li> <li>Turning the key in the outside knob/lever.</li> </ul>	Applying 12 volts DC. The outside knob/lever remains locked only while power is on.	Switching off 12 volts DC	Cannot be locked	Always unlocked
Powered by 12V DC. Temperature control module (TCM) is not needed.					
<b>DDEU–Unlocked</b> 	<ul style="list-style-type: none"> <li>Rotating the inside knob/lever,</li> <li>Rotating the outside knob/lever—only when power is on,</li> <li>Turning the key in the outside knob/lever.</li> </ul>	Switching off 12 volts DC	Applying 12 volts DC. The outside knob/lever remains unlocked only while power is off.	Cannot be locked	Always unlocked
Powered by 12V DC. Temperature control module (TCM) is not needed.					

Shading indicates a ridged lever/knob in a non-energized state.

## 40HW / 8KW / 9KW ELECTRIFIED LOCK INTRODUCTION

The 40HW, 8KW, and 9KW electromechanical locks provide fail-safe (electrically locked) and fail-secure (electrically unlocked) operation. They also provide a way to lock and unlock the door from a remote location for safety, security, or convenience through an individual switch, switch lock, relay, access control system, or other automatic control system. More importantly, these locks exhibit the same features and meet the same standards and specifications as our mechanical 40H mortise and 8K/9K heavy duty cylindrical locksets.

## 40HW ELECTRIFIED – SPECIFICATIONS

### Types:

- 12 volts AC or DC — 0.60 amps
- 24 volts AC or DC — 0.45 amps
- All EU functions:** Electrically Unlocked (Fail Secure)
- All EL functions:** Electrically Locked (Fail Safe)

### Approval Listings:

- UL listed for GYQS Electrically-controlled singlepoint locks or latches.
- This product has been approved by the California State Fire Marshal (CSFM) pursuant to section 13144.1 of the California Health and Safety Code.
- Approved by the city of New York Board of Standards and Appeals under calendar number 49-88-SA. See CSFM listing No. 4136-1175:101 for allowable values and/or conditions for use concerning material presented in this document. It is subject to re-examination, revisions and possible cancellation.

**NOTE:** All W-series locks require the use of a (TCM) Temperature Control Module. A TCM and TCM connector are supplied standard with every order.



40HW Mortise  
Electrically-Operated Lockset

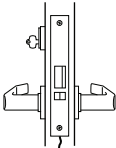
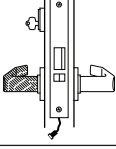
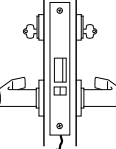
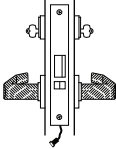
## 40HW ELECTRIFIED – HOW TO ORDER

45HW	7	NXEU	12	J	612	LH	RQE
Series	Core Housing	Function	Lever Style	Trim Style	Finishes †	Handing	Options †
45HW– lever 47HW– lever high security	45HW: 0– keyless or less cylinder, 7– 7 pin  47HW: 7– 7 pin (accepts 5C cores only)	45HW/47HW: <b>DEL</b> – single key latch, fail safe <b>DEU</b> – single key latch, fail secure <b>WEL</b> – double key latch, fail safe <b>WEU</b> – double key latch, fail secure <b>TDEL</b> – single key deadbolt, fail safe <b>TDEU</b> – single key deadbolt, fail secure <b>TWEL</b> – double key deadbolt, fail safe <b>TWEU</b> – double key deadbolt, fail secure  <b>45HW only:</b> <b>NXEL</b> – keyless, latch, fail safe <b>NXEU</b> – keyless, latch, fail secure <b>LEL</b> – keyless, deadbolt, fail safe <b>LEU</b> – keyless, deadbolt, fail secure  (pages 8–9)	<b>Levers:</b> <b>3</b> – solid tube/ return ♿ <b>12</b> – solid tube/ no return ♿ <b>14</b> – curved return ♿ <b>15</b> – contour/ ♿ angle return <b>16</b> – curved/no return ♿ <b>17</b> – gullwing no return ♿  <b>Knobs:</b> <b>4</b> – round  (page 11)	<b>45HW:</b> <b>H</b> – 2 3/4" flat <b>J</b> – wrought <b>M</b> – forged <b>N</b> – forged concealed cylinder <b>S</b> – 3 1/2" flat <b>R</b> – 2 3/4" concave  <b>47HW:</b> <b>M</b> – forged  (page 11)	<b>45HW:</b> <b>605 606</b> <b>611 612</b> <b>613 618</b> <b>619 625</b> <b>626 690</b>  <b>47HW:</b> <b>626 630</b>	<b>RH</b> <b>RHRB</b> <b>LH</b> <b>LHRB</b>	<b>AL</b> – abrasive lever <b>IDH</b> – integrated door hardware w/RQE & DS <b>LL</b> – lead lined <b>LS</b> – latch status <b>DS</b> – door status <b>RQE</b> – request to exit <b>SH</b> – security head screws <b>TL</b> – tactile lever  <b>Thick Door</b> – specify thickness if other than 1 3/4" (1 3/4" min. x 4" max)  <div style="border: 1px solid black; padding: 5px; text-align: center;">Lock Voltage</div> <b>Must specify: 24V or 12V</b>  (page 3)

\* "N" trim **not** available on double keyed functions. \*\*Must specify key mark and number of keys or designate L/C for less core.

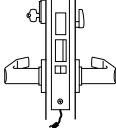
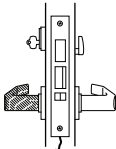
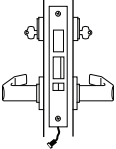
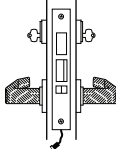
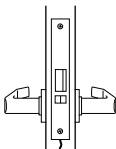
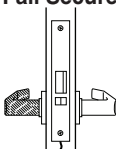
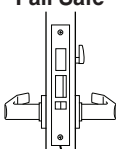
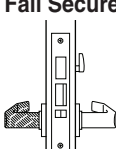
† See H Series catalog for details.

## 40HW ELECTRIFIED – FUNCTIONS

Function	Latch	Outside Knob or Lever		Inside Knob or Lever	
	Operated by	Locked by	Unlocked by	Locked by	Unlocked by
 <b>DEL–Locked Fail Safe</b>	<ul style="list-style-type: none"> <li>• Outside knob/lever when power is removed from the solenoid</li> <li>• Outside key</li> <li>• Inside knob/lever. <b>Latchbolt is deadlocked by an auxiliary latch</b></li> </ul>	Applying power to solenoid; remains locked while power is on	Removing power from solenoid	Cannot be locked	Always unlocked
Powered by 12 or 24 volts AC/DC & 0.60 or 0.45 amps, continuous duty. Temperature control module (TCM) included.					
 <b>DEU–Unlocked Fail Secure</b>	<ul style="list-style-type: none"> <li>• Outside knob/lever when power is applied to the solenoid</li> <li>• Outside key</li> <li>• Inside knob/lever. <b>Latchbolt is deadlocked by an auxiliary latch</b></li> </ul>	Removing power from solenoid	Applying power to solenoid; remains unlocked while power is on	Cannot be locked	Always unlocked
Powered by 12 or 24 volts AC/DC & 0.60 or 0.45 amps, continuous duty. Temperature control module (TCM) included.					
 <b>WEL–Locked Fail Safe</b>	<ul style="list-style-type: none"> <li>• Inside and Outside knob/lever when power is removed from the solenoid</li> <li>• Inside/Outside key <b>Latchbolt is deadlocked by an auxiliary latch</b></li> </ul>	Applying power to solenoid; remains locked while power is on	Removing power from solenoid	Applying power to the solenoid; remains locked while power is on	Removing power from the solenoid
Temperature control module (TCM) included.					
Powered by 12 or 24 volts AC/DC & 0.60 or 0.45 amps, continuous duty. Applying voltage locks inside & outside knobs/levers simultaneously.					
 <b>WEU–Unlocked Fail Secure</b>	<ul style="list-style-type: none"> <li>• Inside and Outside knob/lever when power is applied to the solenoid</li> <li>• Inside/Outside key <b>Latchbolt is deadlocked by an auxiliary latch</b></li> </ul>	Removing power from solenoid	Applying power to solenoid; remains unlocked while power is on	Removing power from solenoid	Applying power to solenoid; remains unlocked while power is on
Powered by 12 or 24 volts AC/DC & 0.60 or 0.45 amps, continuous duty. Removing voltage locks inside & outside knobs/levers simultaneously. Temperature control module (TCM) included.					



**40HW ELECTRIFIED – FUNCTIONS (CONTINUED)**

Function	Latch	Outside Knob or Lever		Inside Knob or Lever	
	Operated by	Locked by	Unlocked by	Locked by	Unlocked by
<b>TDEL–Locked Fail Safe</b> 	<ul style="list-style-type: none"> <li>• Outside key</li> <li>• Outside knob/lever when power is removed from the solenoid.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Applying power to solenoid; remains locked while power is on  <b>Deadbolt operated by:</b> <ul style="list-style-type: none"> <li>• Outside key</li> <li>• Inside thumb turn</li> </ul>	Removing power from solenoid  <b>Deadbolt and latchbolt retracted simultaneously by:</b> <ul style="list-style-type: none"> <li>• Inside knob/lever</li> <li>• Outside knob/lever when power is removed.</li> </ul>	Cannot be locked	Always unlocked
	Powered by 12 or 24 volts AC/DC & 0.60 or 0.45 amps, continuous duty. Temperature control module (TCM) included.				
<b>TDEU–Unlocked Fail Secure</b> 	<ul style="list-style-type: none"> <li>• Outside key</li> <li>• Outside knob/lever when power is applied to the solenoid.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Removing power from solenoid  <b>Deadbolt operated by:</b> <ul style="list-style-type: none"> <li>• Outside key</li> <li>• Inside thumb turn</li> </ul>	Applying power to solenoid; remains unlocked while power is on  <b>Deadbolt and latchbolt retracted simultaneously by:</b> <ul style="list-style-type: none"> <li>• Inside knob/lever</li> <li>• Outside knob/lever when power is applied.</li> </ul>	Cannot be locked	Always unlocked
	Powered by 12 or 24 volts AC/DC & 0.60 or 0.45 amps, continuous duty. Temperature control module (TCM) included.				
<b>TWEL–Locked Fail Safe</b> 	<ul style="list-style-type: none"> <li>• Outside &amp; inside key</li> <li>• Outside &amp; Inside knob/lever when power is removed from the solenoid.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Applying power to solenoid; remains locked while power is on  <b>Deadbolt operated by:</b> <ul style="list-style-type: none"> <li>• Outside or inside key</li> <li>• Outside &amp; Inside knob/lever when power is removed from the solenoid</li> </ul>	Removing power from solenoid  Applying power to solenoid; remains locked while power is on	Applying power to solenoid; remains locked while power is on  Removing power from solenoid	Removing power from solenoid  Applying power to solenoid; remains unlocked while power is on
	Powered by 12 or 24 volts AC/DC & 0.60 or 0.45 amps, continuous duty. Applying voltage locks inside & outside knobs/levers simultaneously. Temperature control module (TCM) included.				
<b>TWEU–Unlocked Fail Secure</b> 	<ul style="list-style-type: none"> <li>• Outside &amp; inside key</li> <li>• Outside &amp; Inside knob/lever when power is applied to the solenoid.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Removing power from solenoid  <b>Deadbolt operated by:</b> <ul style="list-style-type: none"> <li>• Outside or inside key</li> <li>• Outside &amp; Inside knob/lever when power is applied to the solenoid</li> </ul>	Applying power to solenoid; remains unlocked while power is on	Removing power from solenoid	Applying power to solenoid; remains unlocked while power is on
	Powered by 12 or 24 volts AC/DC & 0.60 or 0.45 amps, continuous duty. Removing voltage locks inside & outside knobs/levers simultaneously. Temperature control module (TCM) included.				
<b>NXEL–Locked Fail Safe</b> 	<ul style="list-style-type: none"> <li>• Outside knob/lever when power is applied to the solenoid</li> <li>• Inside knob/lever.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Applying power to solenoid; remains locked while power is on	Removing power from solenoid	Cannot be locked	Always unlocked
	Powered by 12 or 24 volts AC/DC & 0.60 or 0.45 amps, continuous duty. Temperature control module (TCM) included.				
<b>NXEU–Unlocked Fail Secure</b> 	<ul style="list-style-type: none"> <li>• Outside knob/lever when power is applied to the solenoid</li> <li>• Inside knob/lever.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Removing power from solenoid	Applying power to solenoid; remains unlocked while power is on	Cannot be locked	Always unlocked
	Powered by 12 or 24 volts AC/DC & 0.60 or 0.45 amps, continuous duty. Temperature control module (TCM) included.				
<b>LEL–Locked Fail Safe</b> 	<ul style="list-style-type: none"> <li>• Outside knob/lever when power is removed from the solenoid</li> <li>• Inside knob/lever.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Applying power to the solenoid; remains locked while power is on  <b>Deadbolt extended by:</b> Inside thumb turn	Removing power from the solenoid  <b>Deadbolt retracted by:</b> <ul style="list-style-type: none"> <li>• Inside thumb turn</li> <li>• Inside knob/lever retracts the deadbolt and latchbolt simultaneously</li> <li>• Outside knob/lever when power is removed</li> </ul>	Cannot be locked	Always unlocked
	Powered by 12 or 24 volts AC/DC & 0.60 or 0.45 amps, continuous duty. Temperature control module (TCM) included.				
<b>LEU–Unlocked Fail Secure</b> 	<ul style="list-style-type: none"> <li>• Outside knob/lever when power is applied to the solenoid</li> <li>• Inside knob/lever.</li> </ul> <p><b>Latchbolt is deadlocked by an auxiliary latch</b></p>	Removing power from the solenoid  <b>Deadbolt extended by:</b> Inside thumb turn	Applying power to the solenoid; remains unlocked while power is on  <b>Deadbolt retracted by:</b> <ul style="list-style-type: none"> <li>• Inside thumb turn</li> <li>• Inside knob/lever retracts the deadbolt and latchbolt simultaneously</li> <li>• Outside knob/lever when power is applied</li> </ul>	Cannot be locked	Always unlocked
	Powered by 12 or 24 volts AC/DC & 0.60 or 0.45 amps, continuous duty. Temperature control module (TCM) included.				

**ATTENTION:** Locksets that secure both sides of the door are controlled by building codes and the Life Safety Code®. In an emergency exit situation, failure to quickly unlock the inside lever could be hazardous or even fatal.

## 8KW & 9KW ELECTRIFIED LOCKS – SPECIFICATIONS

### Types:

- 12 volts AC/DC when used with supplied TCM — 0.50 amps
- 24 volts AC/DC when used with supplied TCM — 0.18 amps
- **All EU functions:** Electrically Unlocked (Fail Secure)
- **All EL functions:** Electrically Locked (Fail Safe)

### Approval Listings:

- UL listed for GYQS Electrically-controlled singlepoint locks or latches.
- This product has been approved by the California State Fire Marshal (CSFM) pursuant to section 13144.1 of the California Health and Safety Code.
- Approved by the city of New York Board of Standards and Appeals under calendar number 730-89-SA. See CSFM listing No. 4136-1175:103. It is subject to re-examination, revision and possible cancellation.



93KW Cylindrical Electrically-Operated Lockset

**NOTE:** 8KW/9KW Electromechanical locksets are intended for use on minimum 1 3/4" thick doors. Consult your local Stanley office when installing 8KW/9KW electromechanical locksets on doors less than 1 3/4" thick.

**NOTE:** All W-series locks require the use of a (TCM) Temperature Control Module. A TCM and TCM connector are supplied standard with every order.

## 8KW & 9KW ELECTRIFIED LOCKS – HOW TO ORDER

93KW	7	DEU	14	K	STK	626	TL
Series	Core Housing	Function	Knob/Lever Style	Trim Style	Strike Package	Finishes*	Options
<b>8KW:</b> 83KW– 2 3/4" 84KW– 3 3/4" 85KW– 5"  <b>9KW:</b> 93KW– 2 3/4" 94KW– 3 3/4" 95KW– 5"	0– keyless 7– 7 pin housing accepts all BEST cores	<b>DEU–</b> electrically-unlocked  <b>DEL–</b> electrically-locked  (See Below)	<b>8KW:</b> 4– round 6– tulip  <b>9KW:</b> 14– curved return 15– contour angle return 16– curved no return	<b>C–</b> 3" convex <b>D–</b> 3 1/2" convex <b>K–</b> 3" convex—no ring <b>L–</b> 3 1/2" convex—no ring	<b>STK–</b> 2 3/4" ANSI <b>S3–</b> 4 7/8" ANSI	<b>605 606</b> <b>611 612</b> <b>613 618</b> <b>619 625</b> <b>626 690</b>	<b>8KW only:</b> BRK– breakaway knob KNL– knurled knob TAC– tactile knob  <b>9KW only:</b> AL– abrasive lever LM– lost motion RQE– request-to-exit TL– tactile lever <b>Note:</b> specify inside (I), outside (O), or both (B) for AL, TL, TAC, KNL options  <b>8KW &amp; 9KW:</b> LL– lead lined SH– security head screws 3/4– 3/4" throw latch  <div style="border: 1px solid black; padding: 5px; display: inline-block;">Lock Voltage</div> <b>Must specify:</b> 24V or 12V (page 3)

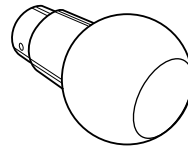
\* Handles are made from a zinc alloy, and have been plated to be equivalent in appearance to the finishes listed.

## 8KW & 9KW ELECTRIFIED LOCKS – FUNCTIONS

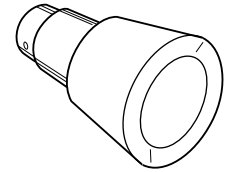
Function	Latch		Outside Knob or Lever		Inside Knob or Lever	
	Operated by	Locked by	Locked by	Unlocked by	Locked by	Unlocked by
<b>DEL-Locked</b> 	<ul style="list-style-type: none"> <li>• Rotating the inside knob/lever</li> <li>• Rotating the outside knob/lever—only when power is off</li> <li>• Turning the key in the outside knob/lever.</li> </ul>	Applying power to the solenoid; remains locked while power is on.	Removing power from the solenoid	Cannot be locked.	Always unlocked.	
Locks are powered by 12 or 24 volts AC/DC at .50amps max. or 0.18 amps. Temperature control module (TCM) included						
<b>DEU-Unlocked</b> 	<ul style="list-style-type: none"> <li>• Rotating the inside knob/lever,</li> <li>• Rotating the outside knob/lever—only when power is on,</li> <li>• Turning the key in the outside knob/lever.</li> </ul>	Removing power from the solenoid	Applying power to the solenoid; remains locked while power is on.	Cannot be locked.	Always unlocked.	
Locks are powered by 12 or 24 volts AC/DC at 500mA max. or 0.18 amps. Temperature control module (TCM) included						

Shading indicates a ridged lever/ knob in a non-energized state.

**KNOB STYLES**

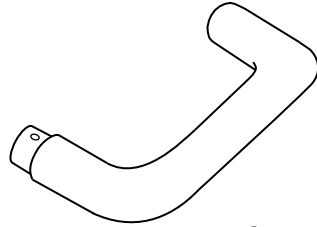


#4 knob

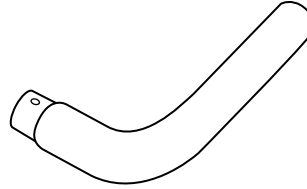


#6 knob

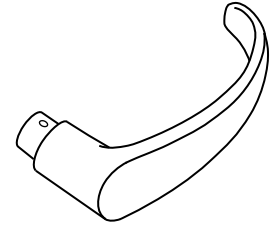
**LEVER STYLES**



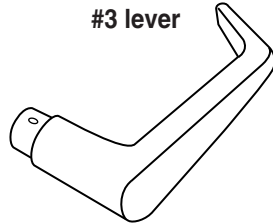
#3 lever



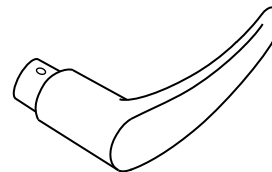
#12 lever



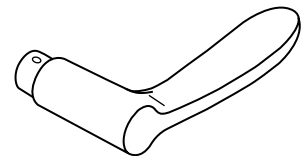
#14 lever



#15 lever

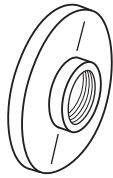


#16 lever



#17 lever

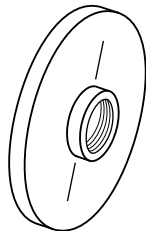
**MORTISE ROSE TRIMS**



H rose



R rose

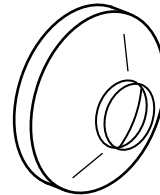


S rose

**CYLINDRICAL ROSE TRIMS**



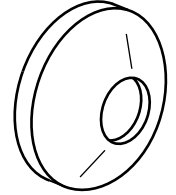
C rose



D rose

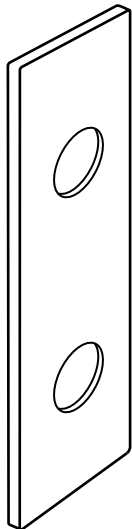


K rose

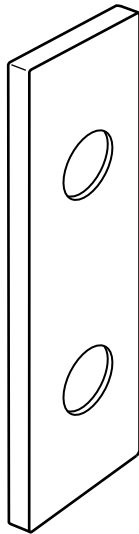


L rose

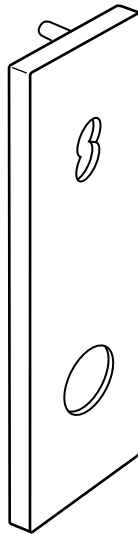
**ESCUTCHEON TRIM VARIATIONS**



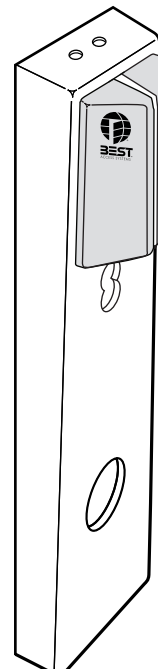
J escutcheon



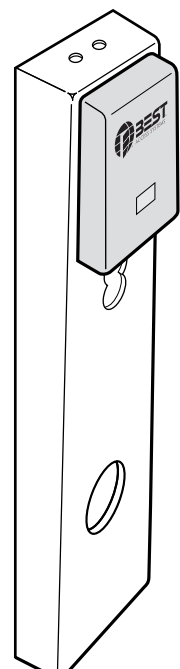
M escutcheon



N escutcheon



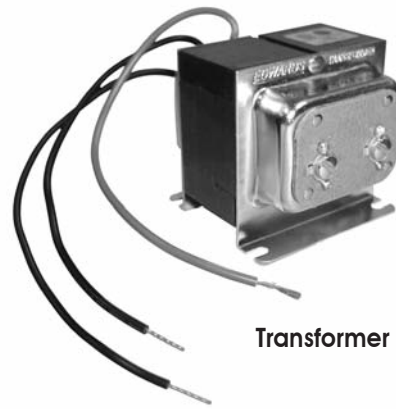
MS escutcheon



Prox escutcheon

**ELECTRIFIED ACCESSORIES****8W599****Features:**

- Offers exceptionally high power for its compact size
- UL listed
- Thermally fused
- Convenient 4 point mounting provision allows rapid installation in a standard 1/2" knockout
- Foot-mounts for surface installation
- Pre-stripped pigtails provided for quick primary connection
- Secondary connection by screw terminals
- Sturdy nylon bobbin construction
- Cadmium plated finish

**Specifications:****Primary voltage:** 120 VAC (Wire Leads)**Secondary voltage:** 24 VAC (Screw Terminals)**Secondary VA:** 40 volts-amperes**Dimensions:** 2 1/4" x 2 1/8" x 2 15/16"**To order specify:** 8W599**Transformer****Function/Application:**

Transforms 120 volts AC to 24 volts AC. (To get 24 volts DC, use with 8WCON, AC to DC converter.) Typically used as a power supply for electrically-operated locks.

**8WCON****Features:**

- 400 Ampere surge capability
- Electrically isolated base
- UL recognized
- Single-phase, full wave bridge

**Specifications:****Average forward current:** 25 amps**Case:** Plastic case with an electrically isolated aluminum base**Polarity:** Terminal designation embossed on case: +DC output, -DC output, AC not marked**Mounting position:** Bolt down. Gain the highest heat transfer efficiency through the surface opposite the terminals. Use silicone heat sink compound on mounting surface for maximum heat transfer.**Terminals:** Suitable for "fast-on" connections. Readily solderable and corrosion resistant. Soldering is recommended for applications greater than 15 amperes.**Mounting torque:** 20 inch-pounds maximum**Case size:** 1.030 x 1.030 inches**Temperature range:** -85° to 347°F (-65° to + 175°C)**To order specify:** 8WCON**AC to DC Converter  
Full wave bridge rectifier****Function/Application:**

Converts AC (alternating current) to DC (direct current) for locking circuit applications. (Typically used with 8W599 transformer.)

**8WBU-1-A / 8WBU-1-N****Features:**

- Positive "snap" feedback
- Industrial-grade switch designed for rugged control applications
- Factory assembled with trimplate
- Standard or narrow plate available
- 1 3/16" dia. mushroom head—red in color

**Specifications:****Electrical rating:** 28VDC or 115 VAC, 10A resistive, 5A inductive, 3A lamp load (see terminology on the back cover)**Switch type:** SPST-NO-DB, FORM-X contacts, 25,000 cycles at full load, 50,000 cycles mechanical life**Mounting hole:** 5/8" (.625) dia.**Switch dim.:** 1.187 dia. x 1.528 overall length**Std. wall plate:** 2 3/4" x 4 1/2"**Narrow wall plate:** 1 1/2" x 4 1/2"**Material/finish:** Satin stainless steel**Wire leads:** Two 6" long 20 AWG insulated wire leads**To order specify:** 8WBU-1-A standard plate 8WBU-1-N narrow plate**8WBU-1-A  
Standard plate****8WBU-1-N  
Narrow plate****Function/Application:**

Normally open push-button switch provides momentary switch closure when pressed. Typically used to momentarily energize electrified locks or strikes or used as a request-to-exit switch on access control systems.

**Features**

- All circuitry completely sealed

**Specifications**

**Wire leads:**

**Input**– 24 AWG – Stranded wire with PVC insulation (approx. 60" in length)

**Output**– 24 AWG – Stranded wire with Teflon insulation (approx. 2.6" in length)

**Input:** 12 or 24 volts AC or DC @ at 0.50 or 0.18 amp

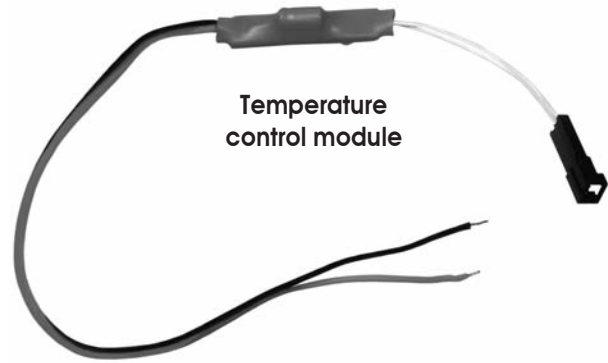
**Output:** Voltage out @ 1 amp maximum for 0.5 seconds then 30% of voltage out for 5 seconds

**Output protection:** Short circuit current limiting set at one (1) amp.

**Operating temp:** -4 to 158°F (-20 to 70°C)

**Size:** 1/2" x 2" x 1/2"

**To order specify:** 8WTCM



Temperature control module

**Function/Application**

A temperature control module (TCM) reduces the amount of current flow to a lockset one second after energizing, thereby lowering the temperature of the lockset trim. A (TCM) also converts AC power to DC power and should be used on all electrified mortise and cylindrical locksets.

Note: The TCM is not used with any IDH-Max function.

**TERMINOLOGY**

**Closed**– A state in which a connection exists between the common terminal and another terminal on the switch. See *Open* also.

**Common terminal**– A terminal on a switch whose contact can be connected to one or more terminals on the switch.

**Door status**– A switch that monitors whether the door is open or closed. This switch is used to detect a forced entry, or a door that is propped open.

**Inductive load**– An electrical device such as a motor, relay, or solenoid. **Note:** this type of load can cause arcing across switch contacts and may burn the contacts. See *Resistive load* and *Lamp load* also.

**Latchbolt status**– A switch that monitors whether the latch is engaged or retracted. This switch is used to detect a forced entry, or a latch that has been taped open.

**Lamp load** – An electrical device that produces light using a tungsten filament, such as an incandescent light bulb. **Note:** this type of load can cause surges of current upon contact closure. This may cause the contacts to weld together. See *Inductive load* and *Resistive load* also.

**Maintained**– Remaining in a given state until the switch lever or button is actuated. Actuating the switch lever or button causes the switch to change to another maintained state.

**Momentary**– Remaining in a given state only as long as an external force is applied to the switch lever or button.

**NC**– (Normally Closed) Switch contacts that are closed as long as no external force is applied to the switch lever or button.

**NO**– (Normally Open) Switch contacts that are open as long as no external force is applied to the switch lever or button.

**Open**– A state in which no connection exists between the common terminal or any other terminal on the switch.

**Pole**– The number of independent circuits in a switch. For example, a double-*pole*, single-throw switch can control two separately powered motors. See *Throw* also.

**Resistive load**– An electrical device, such as a heater, having none of the characteristics of an inductive or lamp load. This type of load is the least severe on the switch because only a small amount of arcing occurs when the switch contacts open and close. See *Inductive load* and *Lamp load* also.

**RQE**– Request-to-exit. A switch that allows the user to exit without setting off an alarm. Turning the inside knob or lever actuates the switch and, when wired to an alarm system, sends a signal to disable or sound an alarm, start a timer, etc.

**Throw**– The number of circuits, or contacts controlled by each pole. For example, a single-pole, double-*throw* switch can control a motor with two contacts—a forward contact, and a reverse contact. See *Pole* also.

**1300**– Integrated BAS1300/LNL1300 reader electronics board or (ISC) Intelligent System Controller is embedded behind the escutcheon secured and out of site. Functions with B.A.S.I.S./Mercury on-line equipment only.

## ELECTRIC SWITCH LOCK – INTRODUCTION

Stanley Security Solutions offers a line of electric switch locks available in various “on-off” and “momentary” keyed switch functions. Circuitry variations are available in single, double and triple pole with varied voltage and amperage ratings. Units may be keyed into any BEST system. The BEST interchangeable core offers versatility and adaptability for new and existing electrical controls, panels, machines, etc.

### Features

- Double D lock cylinder prevents slipping and turning
- Screw terminals on all switch locks (except the 1W7A1) provides ease of installation
- All switches are UL recognized or listed

**Note on functionality: Switch lock keys can only be removed in the 12 o'clock position.**

### How to select a switch lock

#### 1. Determine the electrical requirements for the device being controlled:

- Voltage** (for example: 115 VAC or 24 VDC)
- Current or horsepower** (for example: 6 amps or 1/2 horsepower)
- Type of load**
  - Resistive (for example, heater elements)
  - Inductive (for example, motors, large transformers)
  - Lamp (for example, incandescent lights)

#### 2. Determine the switch configuration (poles and throws) and key removal condition:

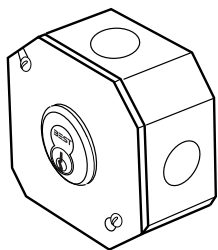
- Poles** To determine the number of poles, find how many wires from the power source need to be switched on and off by the switch lock.
- Throws** To determine the number of throws, find how many wires to the device the switch needs to control. For example, if a switch needs two different “on” conditions (low and high speed), two throws are needed. Or if the device is simply an “on-off” type (only one wire), you need one throw.

**Note: A switch throw may be left unwired and used as an “off” condition.**

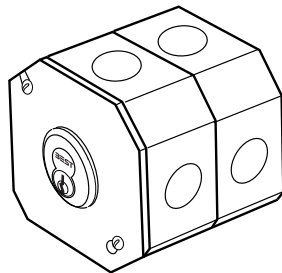
- Key removal** To determine the key removal condition, ask the question, “When the key is removed, should the switch be “off”, or could the switch be either “on” or “off” ?” Although the key can only be removed in the 12 o'clock position, the switch itself may be left in two or three positions. Check each switch lock for key removal switch positions.

#### 3. Use the information collected and find the switch lock that best meets the requirements. Refer to the following catalog pages for a description of each switch lock. If environmental conditions make it necessary that the switch lock be housed in an electrical box, see the **Optional boxes** (above) for the box that best suits the switch lock and your application.

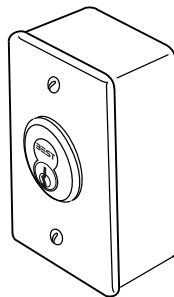
## OPTIONAL BOXES



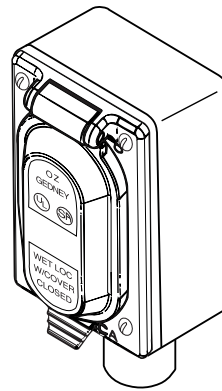
**OC1**  
Standard octagon  
center mount  
3 1/2" x 3 1/2" x 1 5/8"



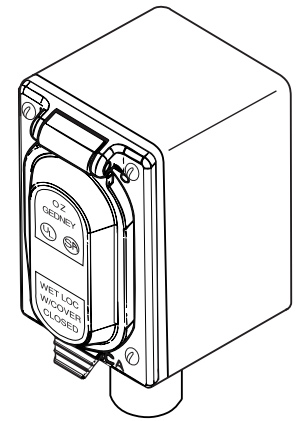
**OC2**  
Deep octagon  
offset mount  
3 1/2" x 3 1/2" x 3 1/4"



**INT**  
Interior box  
4" x 2 1/8" x 1 7/8"



**SWR**  
Standard weather  
resistant box  
4 5/8" x 2 7/8" x 2 1/4"



**DWR**  
Deep weather  
resistant box  
4 5/8" x 2 7/8" x 3"

## HOW TO ORDER – 1W ELECTRIC SWITCH LOCK

1W	7	B1	626	SWR	
Series	Core Housing	Function	Finishes	Box	
1W	7- 7 pin housing accepts all BEST cores	see pages 15-19	605 611 613 622 626	606 612 619 625 690	see above



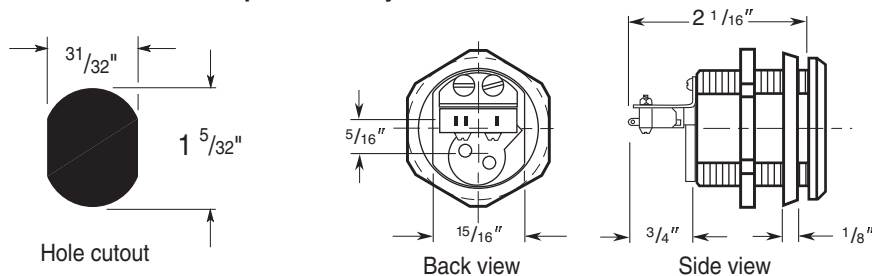
# TW ELECTRIC SWITCH LOCKS

## 1W7A1

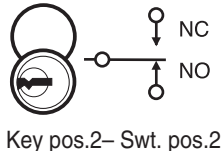
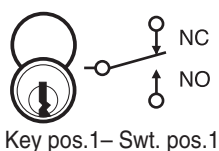
<b>Contacts</b> .....	Silver or gold flash
<b>Contact rating</b> .....	28 VDC, 10 amps resistive
	28 VDC, 3 amps inductive, lamp
	125 VAC, 10.1 amps resistive
	250 VAC, 10.1 amps resistive
<b>Horsepower rating</b> .....	125 VAC, 1/4 HP
<b>Operating temperature</b> .....	-85°F to +257°F (-65° to +125°C)
<b>Switch type</b> .....	SPDT (Single pole-double throw)
<b>Switch lock action</b> .....	Maintained (on-on)
<b>Number of switches per assembly</b> .....	One



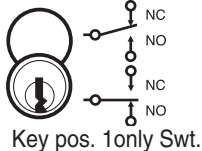
1W7A1



### Key & switch positions



### Remove key



### Optional boxes

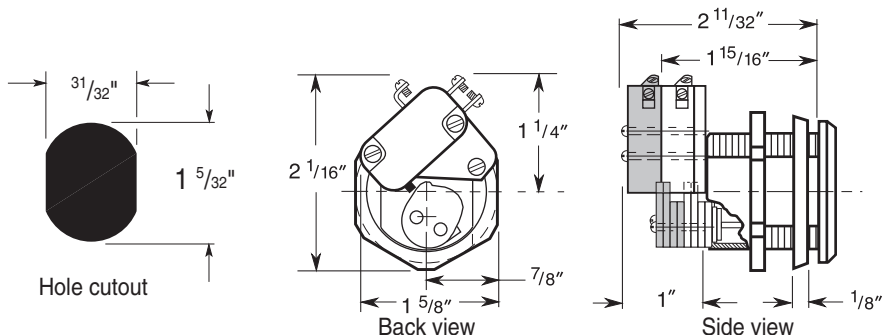
- DWR
- INT
- OC1
- OC2

## 1W7B1 & 1W7J1

<b>Contact rating</b> .....	30 VDC, 15 amps, resistive
	125 VDC, 0.6 amps, resistive
	250 VDC, 0.3 amps, resistive
	125 VAC, 15 amps, resistive
	25 VAC, 5 amps, lamp
	250 VAC, 15 amps, resistive
<b>Horsepower rating</b> .....	125-250 VAC, 1/2 HP
<b>Operating temperature</b> .....	up to +176°F (+80°C)
<b>Switch type</b> .....	SPDT (Single pole-double throw)
<b>Switch lock action</b> .....	Maintained (on-on)
<b>Number of switches per assembly</b> .....	1W7B1: One 1W7J1: Two

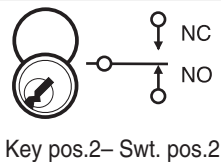
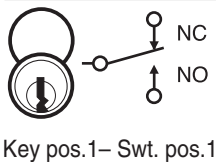


1W7B1—One switch

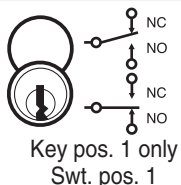


The shaded area shows the additional 1W7J1 switch and cam length.

### Key & switch positions



### Remove key



### Optional boxes

- OC1 DWR
- OC2 INT
- SWR (1W7B1 only)



1W7J1—Two switches

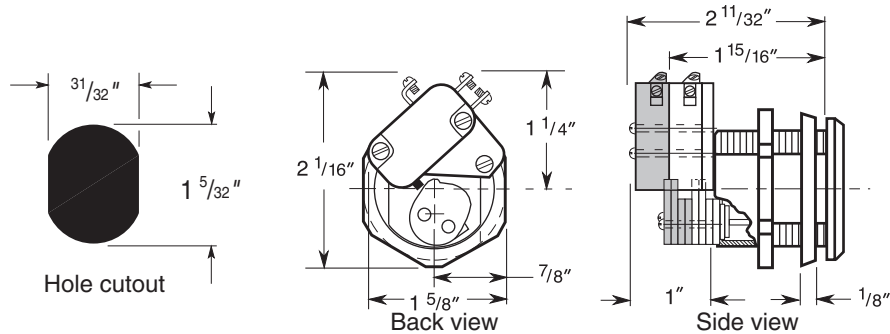
## 1W ELECTRIC SWITCH LOCKS

### 1W7B2 & 1W7J2

<b>Contact rating</b> .....	30 VDC, 15 amps, resistive 125 VDC, 0.6 amps, resistive 250 VDC, 0.3 amps, resistive 125 VAC, 15 amps, resistive 125 VAC, 5 amps, lamp 250 VAC, 15 amps, resistive
<b>Horsepower rating</b> .....	125–250 VAC, 1/2 HP
<b>Operating temperature</b> .....	up to +176°F (+80°C)
<b>Switch type</b> .....	SPDT (Single pole-double throw)
<b>Switch lock action</b> .....	Maintained (on-on)
<b>Number of switches per assembly</b> .....	1W7B2: One 1W7J2: Two



1W7B2—One switch



The shaded area shows the additional 1W7J2 switch and cam length.

Key & switch positions	Remove key	Optional boxes
<p>Key pos. 1— Swt. pos. 1</p>	<p>Key pos. 2 Swt. pos. 2 (360°CCW)</p>	<p>Key pos. 1 and 2 Swt. pos. 1 and 2</p>
		OC1 DWR OC2 INT SWR (1W7B2 only)



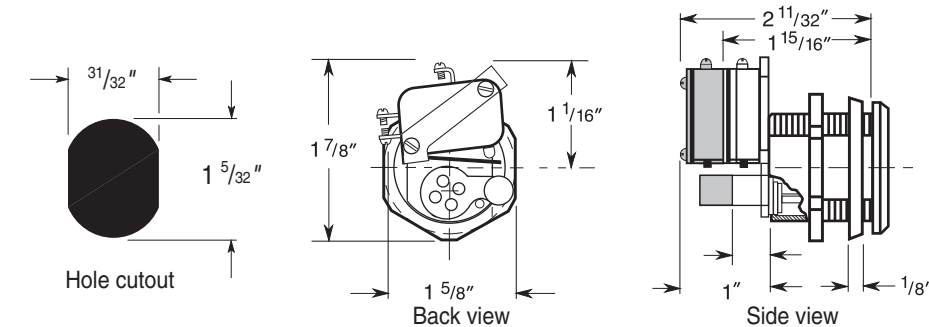
1W7J2—Two switches

### 1W7B3 & 1W7J3

<b>Contact rating</b> .....	30 VDC, 15 amps, resistive 125 VDC, 0.6 amps, resistive 250 VDC, 0.3 amps, resistive 125 VAC, 15 amps, resistive 125 VAC, 5 amps, lamp 250 VAC, 15 amps, resistive
<b>Horsepower rating</b> .....	125–250 VAC, 1/2 HP
<b>Operating temperature</b> .....	up to +176°F (+80°C)
<b>Switch type</b> .....	SPDT (Single pole-double throw)
<b>Switch lock action</b> .....	Momentary (on-on)
<b>Number of switches per assembly</b> .....	1W7B3: One 1W7J3: Two

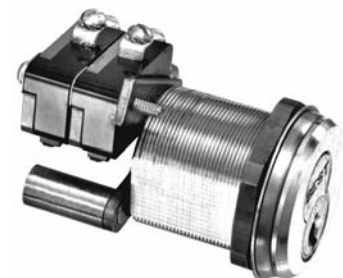


1W7B3—One switch



The shaded area shows the additional 1W7J3 switch and cam length.

Key & switch positions	Remove key	Optional boxes
<p>Key pos. 1— Swt. pos. 1</p>	<p>Key pos. 2— Swt. pos. 2</p>	<p>Key pos. 1— Swt. pos. 1</p>
		OC1 DWR OC2 INT SWR (1W7B3 only)



1W7J3—Two switches



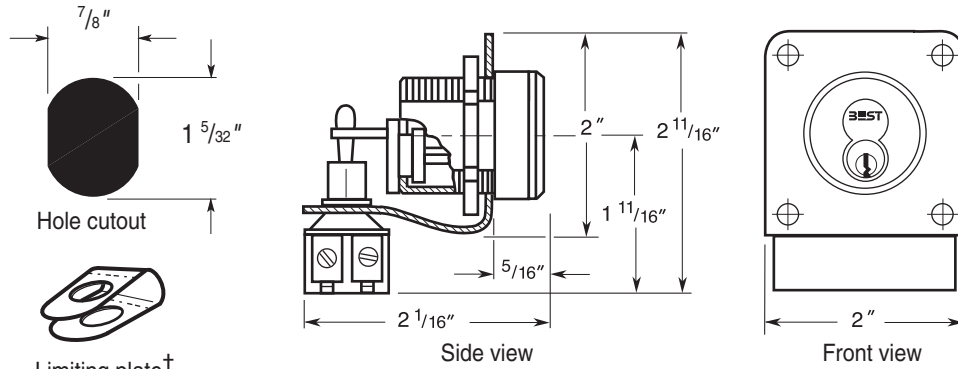
# 1W ELECTRIC SWITCH LOCKS

## 1W7D2

**Contact rating** .....110 VAC or VDC, 16 amps, resistive  
 220 VAC or VDC, 8 amps, resistive  
**Horsepower rating** .....1 HP @ 125–250 VAC or VDC  
**Operating temperature** .....0°F to +150°F (-18°C to +66°C)  
**Switch type** .....DPST (Double pole-single throw)  
**Switch lock action** .....Maintained (off-on)  
**Number of switches per assembly** .....One



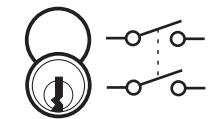
1W7D2



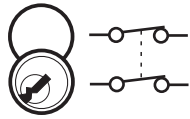
### Key & switch positions

### Remove key

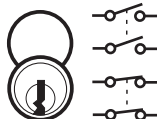
### Optional boxes



Key pos. 1– Swt. pos. 1



Key pos. 2– Swt. pos. 2



Key pos. 1 only  
Swt. pos. 1 and 2†

OC2 DWR  
INT SWR

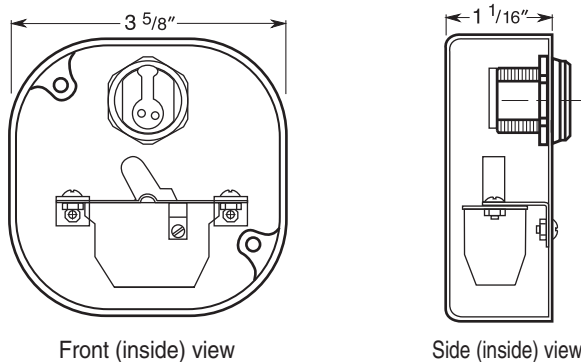
†Installing the limiting plate limits key removal to switch position 1 or 2. The key is always removed in the vertical position (key position 1).

## 1W7C2

**Contact rating** .....110 VAC or VDC, 10 amps, lamp  
 220 VAC or VDC, 5 amps, resistive  
**Operating temperature** .....-40°F to +150°F (-40° to +65°C)  
**Switch type** .....SPST (Single pole-single throw)  
**Switch lock action** .....Maintained (off-on)  
**Number of switches per assembly** .....One



1W7C2



### Key & switch positions

### Remove key

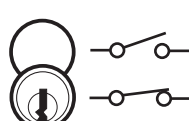
### Optional boxes



Key pos. 1– Swt. pos. 1



Key pos. 2– Swt. pos. 2



Key pos. 3 only  
Swt. pos. 1 and 2

OC1  
OC2

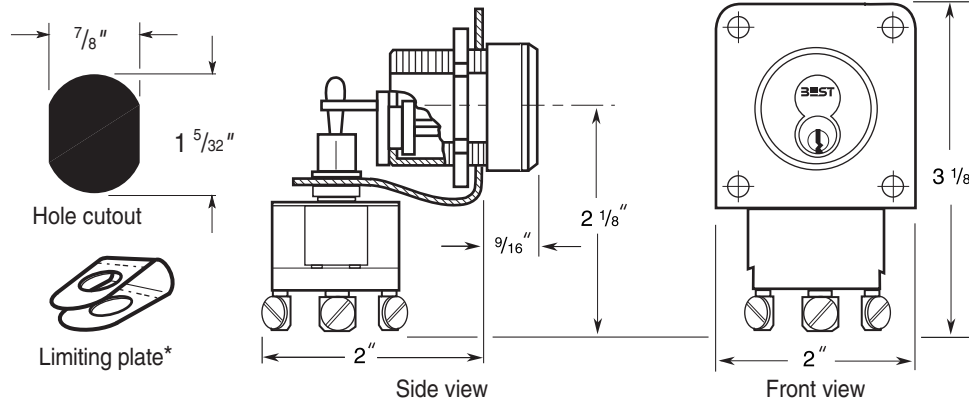
## 1W ELECTRIC SWITCH LOCKS

### 1W7E2

<b>Contact rating</b>	110 VAC, 15 amps, resistive 220 VAC, 10 amps, resistive
<b>Horsepower rating</b>	125–250 VAC or VDC, 3/4 HP; 1, 2, or 3 phase
<b>Operating temperature</b>	0 to +150°F (-18°C to 66°C)
<b>Switch type</b>	TPDT (Triple pole-double throw)
<b>Switch lock action</b>	Maintained Momentary (on-center off-on)
<b>Number of switches per assembly</b>	One

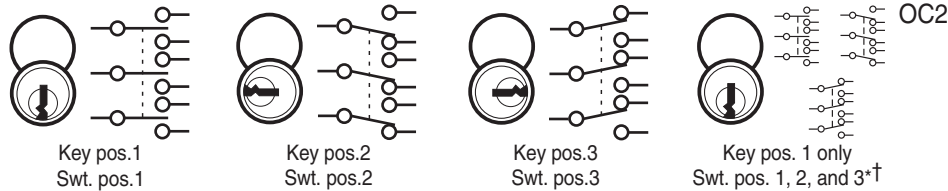


1W7E2



#### Key & switch positions

#### Remove key Opt. box



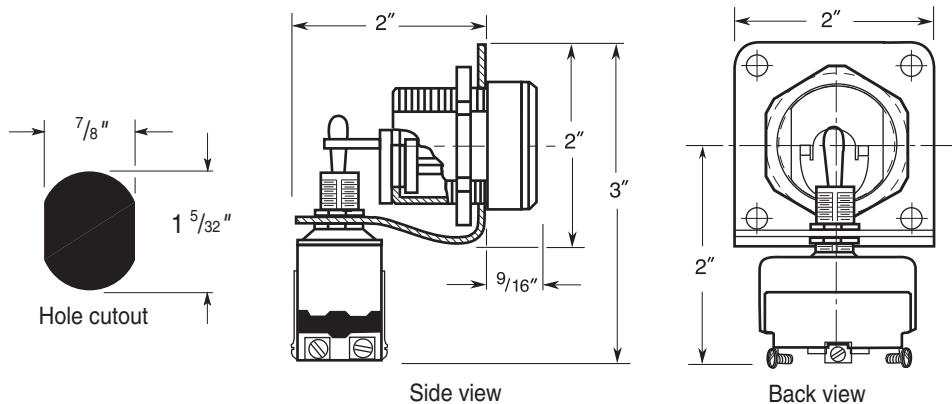
\*Installing the limiting plate limits key removal to switch position 2, or 3. The key is always removed in the vertical position (key position 1). The limiting plate is available for 1W7E2 only.

### 1W7K4

<b>Contact rating</b>	110 VAC, 15 amps, resistive 220 VAC, 10 amps, resistive 250 VAC, 1/2 HP
<b>Horsepower rating</b>	
<b>Operating temperature</b>	up to +221°F (+105°C)
<b>Switch type</b>	DPDT (Double pole-double throw)
<b>Switch lock action</b>	Momentary (on-center off-on)
<b>Number of switches per assembly</b>	One

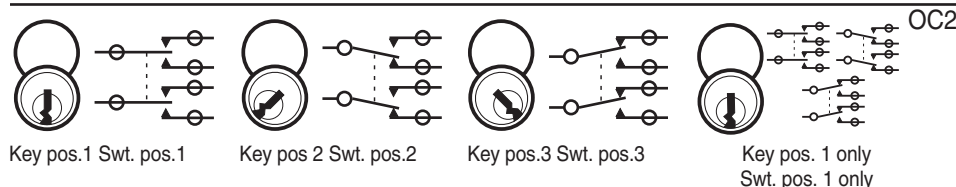


1W7K4



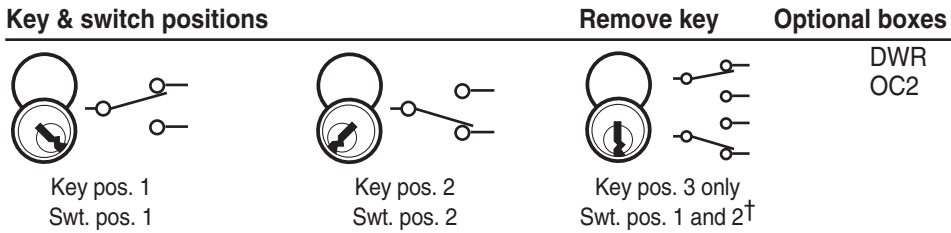
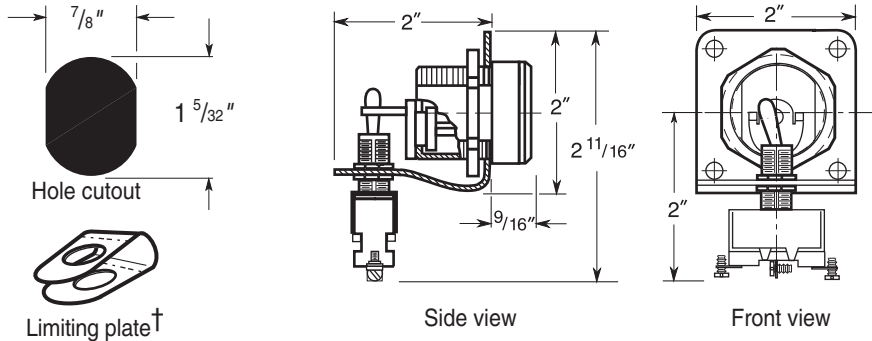
#### Key & switch positions

#### Remove key Opt. boxes



# 1W ELECTRIC SWITCH LOCKS 1W7L2

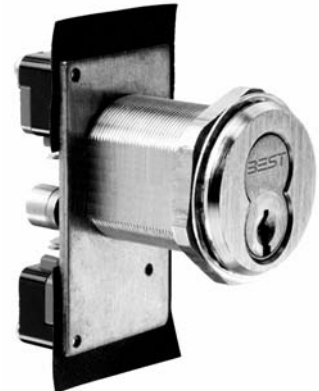
**Contact rating** .....110 VAC or VDC, 12 amps, resistive  
 220 VAC or VDC, 6 amps, resistive  
**Operating temperature** .....up to +221°F (+105°C)  
**Switch type** .....SPDT (Single pole-double throw)  
**Switch lock action** .....Maintained (on-on)  
**Number of switches per assembly** .....One



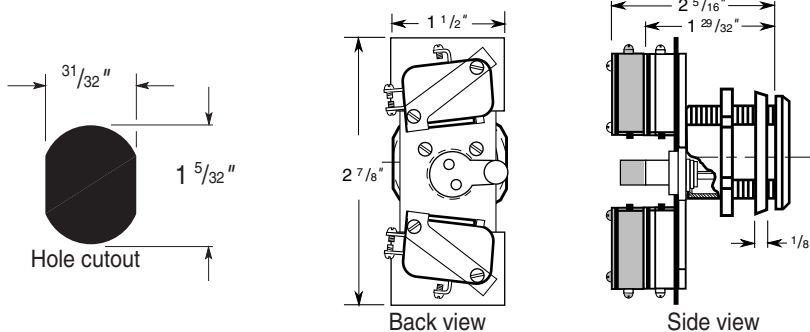
†Installing the limiting plate limits key removal to switch position 1 or 2. The key is always removed in the vertical position (key position 3).

## 1W7P4 & 1W7R4

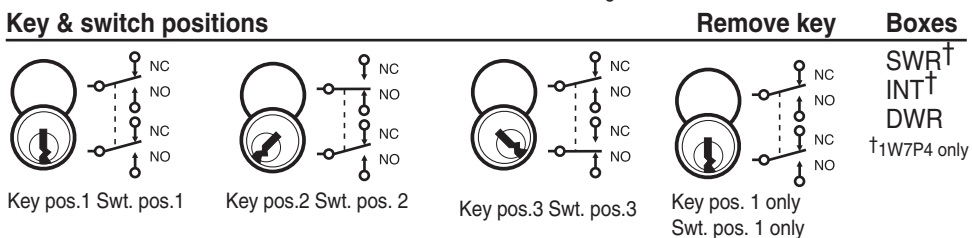
**Contact rating** .....30 VDC, 15 amps, resistive  
 125 VDC, 0.6 amps, resistive  
 250 VDC, 0.3 amps, resistive  
 125 VAC, 15 amps, resistive  
 125 VAC, 5 amps, lamp  
 250 VAC, 15 amps, resistive  
**Horsepower rating** .....125–250 VAC, 1/2 HP  
**Operating temperature** .....up to +176°F (+80°C)  
**Switch type** .....SPDT (Single pole-double throw)  
**Switch lock action** .....Momentary (on-on)  
**Number of switches per assembly** .....1W7P4: Two 1W7R4: Four



1W7P4—two switches



The shaded area shows the additional 1W7R4 switches and cam length.



1W7R4—four switches



For more information on Stanley Security Solutions' products, services, and office locations visit our web site at [www.stanleysecuritysolutions.com](http://www.stanleysecuritysolutions.com)

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