STANLEY®
Security Solutions

W&M SERIES

IDH MAX® & ELECTROMECHANICAL LOCKS

STANLEY BEST ACCESS SYSTEMS

IDH MAX® & ELECTROMECHANICAL LOCKS

TABLE OF CONTENTS

IDH MAX® — INTRODUCTION

The IIDH 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. 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. Acess 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 bother 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 all 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 3/4″ 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 licks 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

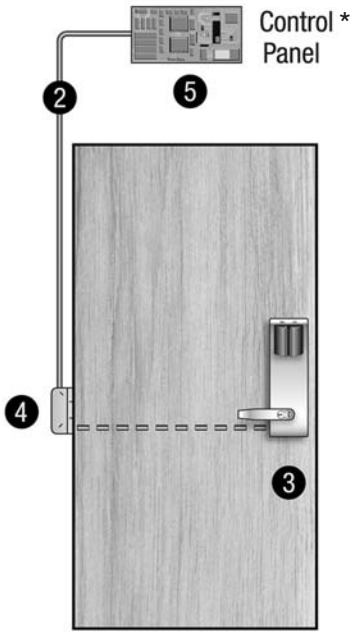
Proximity Card Reader Features

- 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

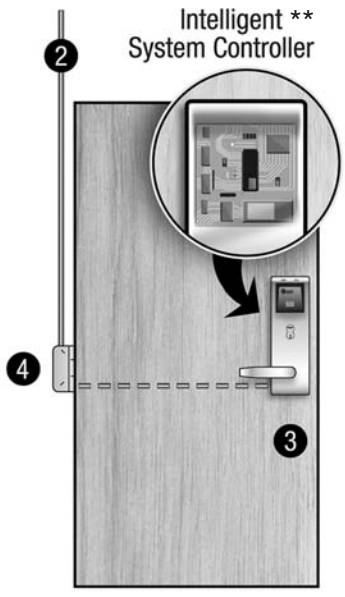
IDH MAX® & IDH MAX® 1300 COMPARISON CHART



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 ¾".

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.

45HM IDH MAX® Mortise

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.

ELECTRONIC

ANSI
American National Standards Institute
11 West 42nd Street, New York, NY 10036

BHMA CERTIFIED

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)

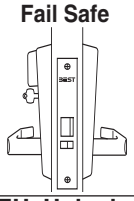
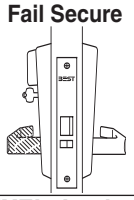
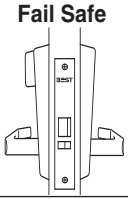
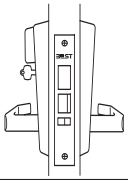
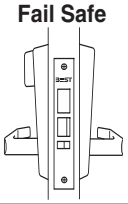
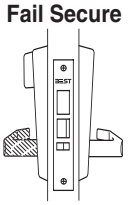
Magnetic Stripe Card Reader:
Read Rate: 5 inches per second to 50 inches per second.
Card thickness: ISO standard .030″ ± .003 thick.
Compliance to FCC, Canadian, and European EMC requirements; for interference FCC Class A digital apparatus.
Magnetic Stripe adaptation: Trim option that can accept other 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	7	DEU	14	MS	626	RH	KNL
Series	**Core Housing**	**Function**	**Lever/Knob Style**	**Trim Style**	**Finishes †**	**Handing**	**Options†**
45HM– IDH Max™	**0–** Keyless or less cylinder, **7–** 7 pin housing ONLY	**DEL–** electrically locked **DEU–** electrically unlocked **NXEL–** electrically locked **NEU–** electrically unlocked **TDEL–** electrically locked **TDEU–** electrically unlocked **LEL–** electrically locked **LEU–** electrically unlocked (page 5)	**Levers** **3–** solid tube return **12–** solid tube **14–** curved return **15–** curved angle return **16–** curved no return **17–** gullwing no return **Knobs** **4–** round (page 11)	**MS–** magnetic stripe **PM–** proximity Motorola **PH–** proximity HID **MSA–** other cylinder **PHA–** other cylinder **PMA–** other cylinder (page 11)	**605 606** **611 612** **613 618** **619 625** **626 690**	**RH** **RHRB** **LH** **LHRB**	**SH –** security head screws **TAC –** tactile lever **Thick** **Door –** specify thickness if other than 1 3/4″ **7/8" LTC–** flat lip strike **1300 –** 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.

Function	Latch	Outside Knob/Lever		Inside Knob/Lever	
	Operated by	Locked by	Unlocked by	Locked by	Unlocked by
DEL–Locked Fail Safe 	• Outside knob/lever when power is removed from the solenoid • Outside key • Inside knob/lever.	Applying power to solenoid; remains locked while power is on.	Removing power from solenoid	Cannot be locked	Always unlocked
	Powered by 12 DC. temperature control module is not needed.				
DEU–Unlocked Fail Secure 	• Outside knob/lever when power is removed from the solenoid • Outside key • Inside knob/lever.	Removing power from solenoid	Applying power to solenoid; remains locked while power is on.	Cannot be locked	Always unlocked
	Powered by 12 DC. temperature control module is not needed.				
NXEL–Locked Fail Safe 	• Outside knob/lever when power is removed from the solenoid • Inside knob/lever. **Latchbolt is dead-locked by an auxiliary latch**	Applying power to solenoid; remains locked while power is continuously applied.	Removing power from solenoid	Cannot be locked	Always unlocked
	Powered by 12 DC. temperature control module is not needed.				
NXEU–Unlocked Fail Secure 	• Outside knob/lever when power is removed from the solenoid • Inside knob/lever. **Latchbolt is dead-locked by an auxiliary latch**	Removing power from solenoid	Applying power to solenoid; remains locked while power is continuously applied.	Cannot be locked	Always unlocked
	Powered by 12 DC. temperature control module is not needed.				
TDEL–Locked Fail Safe 	• Outside key • Outside knob/lever when power is removed from the solenoid. **Latchbolt is dead-locked by an auxiliary latch**	Applying power to the solenoid; remains locked while power is continuously applied **Deadbolt operated by:** Outside key	Removing power from the solenoid **Deadbolt and Latchbolt retracted simultaneously by:** • Inside knob/lever • Outside knob/lever when power is removed	Cannot be locked	Always unlocked
	Powered by 12 DC. temperature control module is not needed.				
TDEU–Unlocked Fail Secure 	• Outside key • Outside knob/lever when power is removed from the solenoid. **Latchbolt is dead-locked by an auxiliary latch**	Removing power from the solenoid **Deadbolt operated by:** Outside key	Applying power to the solenoid; remains locked while power is continuously applied **Deadbolt and Latchbolt retracted simultaneously by:** • Inside knob/lever • Outside knob/lever when power is removed	Cannot be locked	Always unlocked
	Powered by 12 DC. temperature control module is not needed.				
LEL–Locked Fail Safe 	• Outside knob/lever when power is removed from the solenoid • Inside knob/lever.	Applying power to the solenoid; remains locked while power is continuously applied **Deadbolt extended by:** Inside thumb turn	Removing power from the solenoid **Deadbolt retracted by:** • Inside thumb turn • Inside knob/lever retracts the deadbolt and latchbolt simultaneously • Outside lever when power is removed	Cannot be locked	Always unlocked
	Powered by 12 DC. temperature control module is not needed.				
LEU–Unlocked Fail Secure 	• Outside knob/lever when power is applied to the solenoid • Inside knob/lever.	Removing power from the solenoid **Deadbolt extended by:** Inside thumb turn	Applying power to the solenoid; remains locked while power is continuously applied **Deadbolt retracted by:** • Inside thumb turn • Inside knob/lever retracts the deadbolt and latchbolt simultaneously • Outside knob/lever when power is removed	Cannot be locked	Always unlocked
	Powered by 12 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)

ANSI
American National Standards Institute
11 West 42nd Street, New York, NY 10036

BHMA CERTIFIED

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:

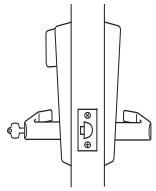
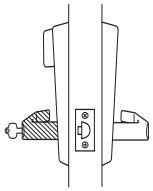
ANSI/BHMA A156.25 compliant, Compatible with Motorola / Indala and HID proximity cards, ABA and Wiegand output Weatherproof bezel and gasket provide protection for outdoor use. (Usable in all environmental/exterior applications).
Card Read Range: 0 – 3 inches. Compliance to US FCC, Canadian FCC, and 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**
Lever **93KM**– 2 3/4″ **94KM**– 3 3/4″ **95KM**– 5″ **Knob** **83KM**– 2 3/4″ **84KM**– 3 3/4″ **85KM**– 5″	**0**– keyless **7**– 7 pin housing accepts all BEST cores	**DDEU**– electrically-unlocked **DDEL**– electrically-locked (page 7)	**Lever** **14**– curved return **15**– contour angle return **16**– curved no return **Knob** **4**– round **6**– tulip (page 11)	**MS**– magnetic stripe **PM**– proximity Motorola **PH**– proximity HID (page 11)	**STK**– 2 3/4″ ANSI **S3**– 4 7/8″ ANSI	**605 606** **611 612** **613 618** **619 625** **626 690**	**8KM:** **BRK –** breakaway knob **KNL –** knurled knob **TAC –** tactile knob **9KM:** **AL –** abrasive lever **LM –** lost motion **TL –** tactile lever **Note:** specify inside (I), outside (O), or both (B) for AL, TL,TAC, KNL options **Both 8KM & 9KM:** **SH –** security head screws **3/4 –** 3/4″ throw latch **1300 –** Integrated BAS1300/ LNL1300 reader electronic board (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
DDEL–Locked 	• Rotating the inside knob/lever, OR • Rotating the outside knob/lever—only when power is off, OR • Turning the key in the out side knob/lever.	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 12 DC. temperature control module is not needed.				
DDEU–Unlocked 	• Rotating the inside knob/lever, OR • Rotating the outside knob/lever—only when power is on, OR • Turning the key in the out side knob/lever.	Switching off 12 volts DC	Applying 12 volts DC. The outside knob/lever remains locked only while power is off.	Cannot be locked	Always unlocked
	Powered by 12 DC. temperature control module is not needed.				

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

40HW ELECTRIFIED — SPECIFICATIONS

The 40HW electromechanical locks provide a way to lock or unlock a door from a remote location for safety, convenience, or security. The 8KW/9KW cylindrical and 40HW mortise locks in fail-safe or fail-secure operation. These locksets can be controlled by an individual switch, switch lock, relay, access control or other automatic control system. As expected, the 8KW/9KW and 40HW electromechanical locks exhibit the same features and meet the same specifications as our standard 8K/9K cylindrical and 40H mortise locksets.

40HW Mortise Electrically-Operated Lockset

Types:

- 12 volts AC or DC — 1.10 amps
- 24 volts AC or DC — 0.75 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 fo use concerning material presented in this document. It is subject to re-examination,revisions and possible cancellation.

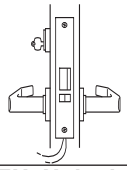
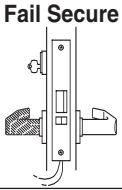
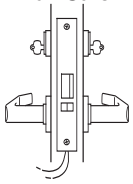
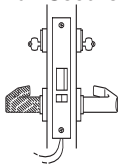
NOTE: A Temperature Control Module (TCM) may be needed when a lockset is energized for long periods of time. The TCM must be ordered separately for "EU" functions, but is automatically included with 45HW "EL" functions.

40HW ELECTRIFIED – HOW TO ORDER

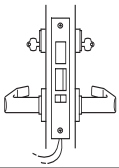
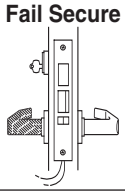
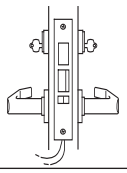
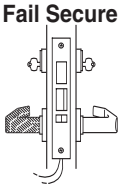
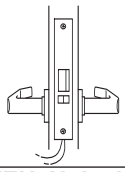
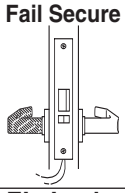
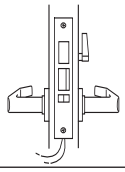
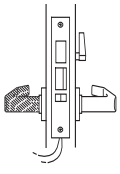
45HW	7	NXEU	12	J	612	LH	RQE
Series	**Core Housing**	**Function**	**Lever Style**	**Trim Style**	**Finishes †**	**Handing**	**Options†**
45HW– lever **47HW–** lever high security	**45HW:** **0–** keyless or less cylinder, **7–** 7 pin **47HW:** **7–** 7 pin (accepts 5C cores only)	**45HW/47HW:** **DEL–** single key latch, fail safe **DEU–** single key latch, fail secure **WEL–** double key latch, fail safe **WEU–** double key latch, fail secure **TDEL–** single key deadbolt, fail safe **TDEU–** single key deadbolt, fail secure **TWEL–** double key deadbolt, fail safe **TWEU–** double key deadbolt, fail secure **45HW only:** **NXEL–** keyless, latch, fail safe **NXEU–** keyless, latch, fail secure **LEL–** keyless, deadbolt, fail safe **LEU–** keyless, deadbolt, fail secure (pages 8–9)	**Levers:** **3–** solid tube/ return **12–** solid tube/ no return **14–** curved return **15–** contour/ angle return **16–** curved/no return **17–** gullwing no return **Knobs:** **4–** round (page 11)	**45HW:** **H–** 2 9/16" dia. **J–** wrought **M–** forged **N–** forged concealed cylinder **S–** 3 1/2" dia. **47HW:** **M–** forged (page 11)	**45HW:** **605 606** **611 612** **613 618** **619 625** **626 690** **47HW:** **626 630**	**RH** **RHRB** **LH** **LHRB**	**AL –** abrasive lever **IDH –** integrated door hardware **LL –** lead lined **LS –** latch status **RQE –** request to exit **SH –** security head screws **TL –** tactile lever **Thick** **Door –** specify thickness if other than 1 3/4" (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**
DEL–Locked **Fail Safe** 	• Outside knob/lever when power is removed from the solenoid • Outside key • Inside knob/lever.	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 & 1.10 or 0.75 amps, continuous duty. Temperature control module (TCM) included.					
DEU–Unlocked **Fail Secure** 	• Outside knob/lever when power is removed from the solenoid • Outside key • Inside knob/lever.	Removing power from solenoid	Applying power to solenoid; remains locked while power is on.	Cannot be locked	Always unlocked
Powered by 12 or 24 volts AC/DC & 1.10 or 0.75 amps, continuous duty.					
WEL–Locked **Fail Safe** 	• Inside and Outside knob/lever when power is removed from the solenoid • Inside/Outside key **Latchbolt is deadlocked by an auxiliary latch**	Applying power to solenoid; remains locked while power is continuously applied.	Removing power from solenoid	Applying power to the solenoid; remains locked while power is continuously applied	Removing power from the solenoid
Temperature control module (TCM) included.					
Powered by 12 or 24 volts AC/DC & 1.10 or 0.75 amps, continuous duty. Applying voltage locks inside & outside knobs/levers simultaneously.					
WEU–Unlocked **Fail Secure** 	• Inside and Outside knob/lever when power is applied to the solenoid • Inside/Outside key **Latchbolt is deadlocked by an auxiliary latch**	Removing power from solenoid	Applying power to solenoid; remains locked while power is continuously applied	Switching off 24 volts AC/DC. Inside knob/lever remains locked only while power is off.	Applying 24 volts AC/DC. Inside knob/lever remains unlocked only while power is on.
Powered by 12 or 24 volts AC/DC & 1.10 or 0.75 amps, continuous duty. Applying voltage locks inside & outside knobs/levers simultaneously.					

40HW ELECTRIFIED — FUNCTIONS (CONTINUED)

Function	Latch	Outside Knob or Lever		Inside Knob or Lever	
	Operated by	Locked by	Unlocked by	Locked by	Unlocked by
TDEL–Locked Fail Safe 	• Outside key • Outside knob/lever when power is removed from the solenoid. **Latchbolt is deadlocked by an auxiliary latch**	Applying power to solenoid; remains locked while power is continuously applied. **Deadbolt operated by:** Outside key	Removing power from solenoid **Deadbolt and latchbolt retracted simultaneously by:** • Inside knob/lever • Outside knob/lever when power is removed.	Cannot be locked	Always unlocked
Powered by 12 or 24 volts AC/DC & 1.10 or 0.75 amps, continuous duty. Temperature control module (TCM) included.					
TDEU–Unlocked Fail Secure 	• Outside key • Outside knob/lever when power is applied to the solenoid. **Latchbolt is deadlocked by an auxiliary latch**	Removing power from solenoid **Deadbolt operated by:** Outside key	Applying power to solenoid; remains locked while power is continuously applied. **Deadbolt and latchbolt retracted simultaneously by:** • Inside knob/lever • Outside knob/lever when power is removed.	Cannot be locked	Always unlocked
Powered by 12 or 24 volts AC/DC & 1.10 or 0.75 amps, continuous duty.					
TWEL–Locked Fail Safe 	• Outside & inside key • Outside & Inside knob/lever when power is removed from the solenoid. **Latchbolt is deadlocked by an auxiliary latch**	Applying power to solenoid; remains locked while power is continuously applied. **Deadbolt operated by:** • Outside or inside key • Outside & Inside knob/lever when power is removed from the solenoid	Removing power from solenoid	Applying power to solenoid; remains locked while power is continuously applied.	Removing power from solenoid
Powered by 12 or 24 volts AC/DC & 1.10 or 0.75 amps, continuous duty. Applying voltage locks inside & outside knobs/levers simultaneously.					
TWEU–Unlocked Fail Secure 	• Outside & inside key • Outside & Inside knob/lever when power is applied to the solenoid. **Latchbolt is deadlocked by an auxiliary latch**	Removing power from solenoid **Deadbolt operated by:** • Outside or inside key • Outside & Inside knob/lever when power is removed from the solenoid	Applying power to solenoid; remains unlocked while power is continuously applied.	Removing power from solenoid	Applying power to solenoid; remains locked while power is continuously applied.
Powered by 12 or 24 volts AC/DC & 1.10 or 0.75 amps, continuous duty. Applying voltage locks inside & outside knobs/levers simultaneously.					
NXEL–Locked Fail Safe 	• Outside knob/lever when power is removed from the solenoid • Inside knob/lever. **Latchbolt is deadlocked by an auxiliary latch**	Applying power to solenoid; remains locked while power is continuously applied.	Removing power from solenoid	Cannot be locked	Always unlocked
Powered by 12 or 24 volts AC/DC & 1.10 or 0.75 amps, continuous duty. Temperature control module (TCM) included.					
NXEU–Unlocked Fail Secure 	• Outside knob/lever when power is removed from the solenoid • Inside knob/lever. **Latchbolt is deadlocked by an auxiliary latch**	Removing power from solenoid	Applying power to solenoid; remains locked while power is continuously applied.	Cannot be locked	Always unlocked
Powered by 12 or 24 volts AC/DC & 1.10 or 0.75 amps, continuous duty.					
LEL–Locked Fail Safe 	• Outside knob/lever when power is removed from the solenoid • Inside knob/lever.	Applying power to the solenoid; remains locked while power is continuously applied **Deadbolt extended by:** Inside thumb turn	Removing power from the solenoid **Deadbolt retracted by:** • Inside thumb turn • Inside knob/lever retracts the deadbolt and latchbolt simultaneously • Outside knob/lever when power is removed	Cannot be locked	Always unlocked
Powered by 12 or 24 volts AC/DC & 1.10 or 0.75 amps, continuous duty. Temperature control module (TCM) included.					
LEU–Unlocked Fail Secure 	• Outside knob/lever when power is applied to the solenoid • Inside knob/lever.	Removing power from the solenoid **Deadbolt extended by:** Inside thumb turn	Applying power to the solenoid; remains locked while power is continuously applied **Deadbolt retracted by:** • Inside thumb turn • Inside knob/lever retracts the deadbolt and latchbolt simultaneously • Outside knob/lever when power is removed	Cannot be locked	Always unlocked
Powered by 12 or 24 volts AC/DC & 1.10 or 0.75 amps, continuous duty.					

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:

- 24 volts DC only — 0.18 amps intermittent or continuous duty.
- **EU:** Electrically Unlocked (Fail Secure)
- **EL:** 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 section13144.1 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

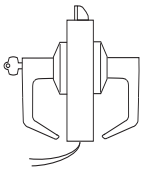
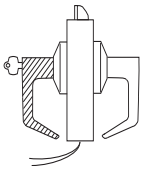
† **NOTE:** 8KW/9KW Electromechanical locksets are intended for use on 1 3/4" minimum thick doors. Consult your local Stanley office when installing 8KW/9KW electromechanical locksets on doors less than 1 3/4" thick.

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**
8KW: **83KW**– 2 3/4" **84KW**– 3 3/4" **85KW**– 5" ***9KW:*** **93KW**– 2 3/4" **94KW**– 3 3/4" **95KW**– 5"	**0**– keyless **7**– 7 pin housing accepts all Best cores	**DEU**– electrically-unlocked **DEL**– electrically-locked (See Below)	***8KW:*** **4**– round **6**– tulip ***9KW:*** **14**– curved return **15**– contour angle return **16**– curved no return (page 11)	**C**– 3" convex **D**– 3 1/2" convex **K**– 3" convex—no ring **L**– 3 1/2" convex—no ring (page 11)	**STK**– 2 3/4" ANSI **S3**– 4 7/8" ANSI	**605 606** **611 612** **613 618** **619 625** **626 690**	***8KW only:*** **BRK**– breakaway knob **KNL**– knurled knob **TAC**– tactile knob ***9KW only:*** **AL**– abrasive lever **LM**– lost motion **RQE**– request-to-exit **TL**– tactile lever **Note:** specify inside (I), outside (O), or both (B) for AL, TL, TAC, KNL options ***8KW & 9KW:*** **LL**– lead lined **SH**– security head screws **3/4** – 3/4" throw latch (page 3)

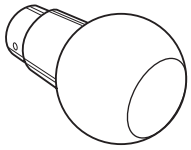
* Handles are made from a zinc alloy, and have been plated to be equivalent in appearance to the finishes listed.

8KW & 9KW ELECTRIFIED LOCKS – FUNCTIONS

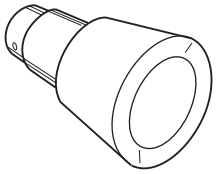
Function	Latch	Outside Knob or Lever		Inside Knob or Lever	
	Operated by	**Locked by**	**Unlocked by**	**Locked by**	**Unlocked by**
DEL-Locked 	• Rotating the inside knob/lever, OR • Rotating the outside knob/lever—only when power is off, OR • Turning the key in the outside knob/lever.	Applying 24 volts DC. The outside knob/lever remains locked only while power is on.	Switching off 24 volts DC.	Cannot be locked.	Always unlocked.
	Locks are powered by 24 volts DC and 0.18 amps, continuous duty.				
DEU-Unlocked 	• Rotating the inside knob/lever, OR • Rotating the outside knob/lever—only when power is on, OR • Turning the key in the outside knob/lever.	Switching off 24 volts DC.	Applying 24 volts DC. The outside knob/lever remains locked only while power is off.	Cannot be locked.	Always unlocked.
	Locks are powered by 24 volts DC and 0.18 amps, continuous duty.				

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

KNOB TRIM VARIATIONS

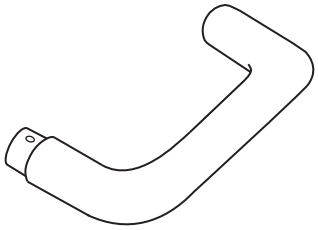


#4 knob

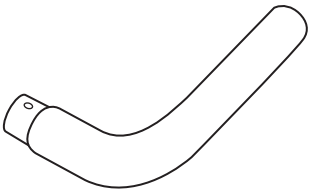


#6 knob

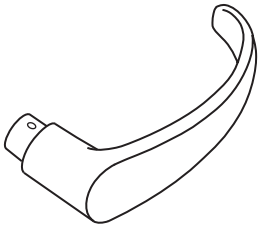
LEVER TRIM VARIATIONS



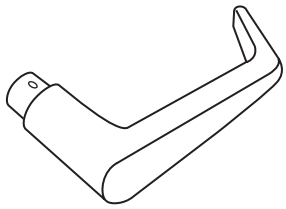
#3 lever



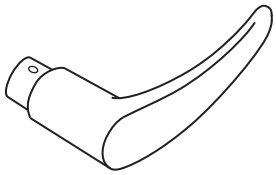
#12 lever



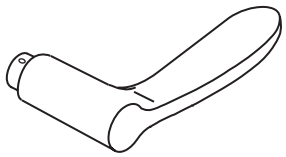
#14 lever



#15 lever

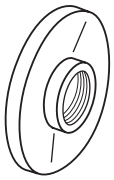


#16 lever

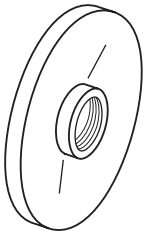


#17 lever

MORTISE ROSE TRIM

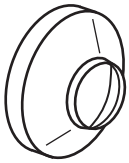


H Rose

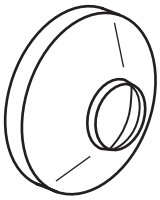


S Rose

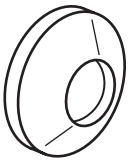
CYLINDRICAL ROSE TRIM



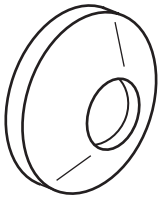
C Rose



D Rose



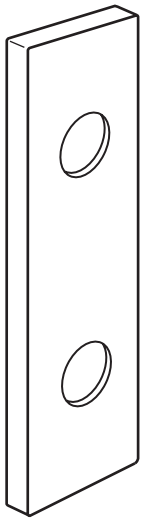
K Rose



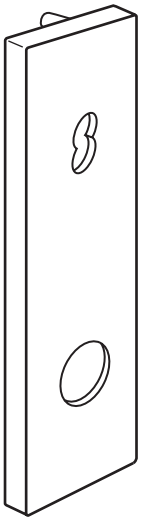
L Rose

ESCUTCHEON TRIM VARIATIONS

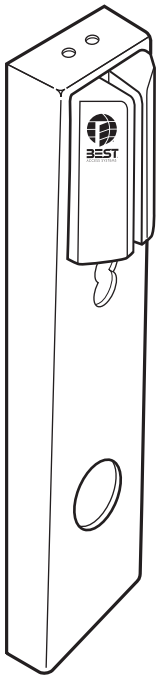
J Escutcheon



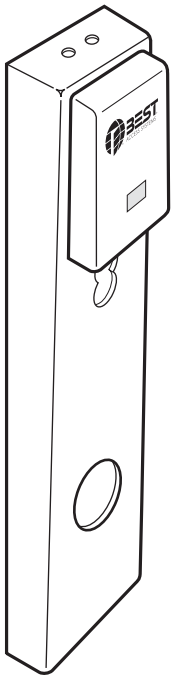
M Escutcheon



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

Transformer

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

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

AC to DC Converter
Full wave bridge rectifier

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 than15 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

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

8WBU-1-A
Standard plate

8WBU-1-N
Narrow plate

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

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.

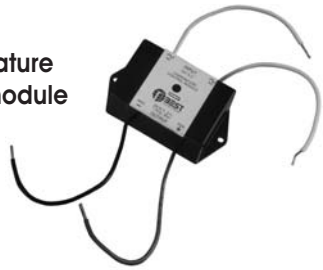
Features

- All circuitry completely sealed
- Wire leads for easy installation
- Through hole mounting
- Usable on other manufacturer's 12 & 24 VDC locksets

Specifications

Wire leads: 18 AWG stranded vinyl insulated wire approx. 6″ in length
Voltage input: 24 volts AC/DC
Voltage output: 12 volts DC; 24 volts DC minimum at one (1) amp max. load for approx. one (1) second, then 15 to 17 VDC regulated output until input voltage is interrupted.
Output protection: Short circuit current limiting set at one (1) amp; output reverse hookup protection for internal circuitry only.
Operating temp: -4 to 158°F (-20 to 70°C)
Size: 2″ x 2 1/8″ x 1 3/8″
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 may be needed on an electrified mortise or electrified cylindrical lockset if energized for long periods of time. The TCM is not used with any IDH-Max function. The TCM ***Must Be*** ordered separately for DEL, WEU, NXEU functions, but is automatically included with 44H–47H DEL\, WEL, NXEL functions.

TERMINOLOGY

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

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

Door monitor switch–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 also *Resistive load* and *Lamp load.*

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 also *Inductive load* and *Resistive load.*

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 also Throw.

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 also *Inductive load* and *Lamp load.*

RQE–Request-to-exit. A switch that allows the user to exit without setting off an alarm. The 34–37H mortise lock can be supplied with an internal request-to-exit switch. 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 also *Pole.*

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

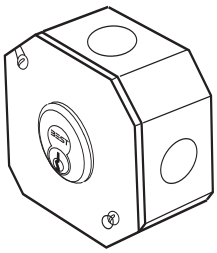
- Double D lock cylinder prevents slipping and turning
- Screw terminals on all switch locks (except the 1W7A1) provides ease of installation
- All switches are UL recognized or listed

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

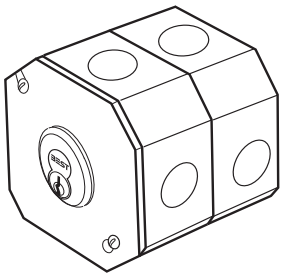
How to select a switch lock

1. **Determine the electrical requirements for the device being controlled:**
   A. **Voltage** (for example: 115 VAC or 24 VDC)
   B. **Current or horsepower** (for example: 6 amps or 1/2 horsepower)
   C. **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:**
   A. **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.
   B. **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.
   C. **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.

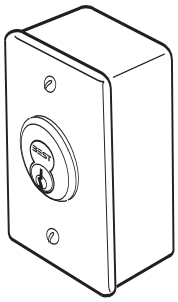
OPTIONAL BOXES



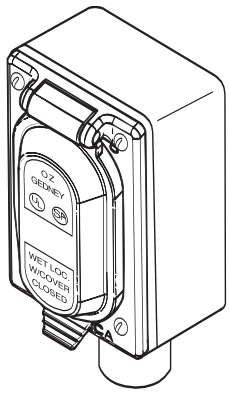
OC1
Standard octagon center mount
3 1/2" x 3 1/2" x 1 5/8"



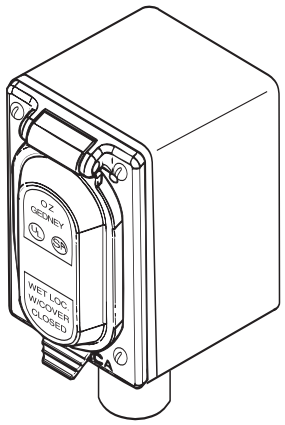
OC2
Deep octagon offset mount
3 1/2" x 3 1/2" x 3 1/4"



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"

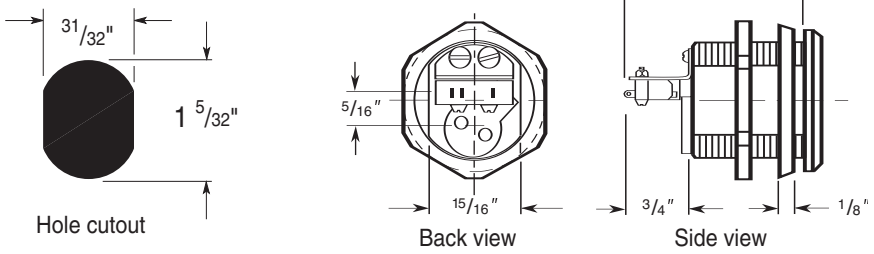
HOW TO ORDER – 1W ELECTRIC SWITCH LOCK

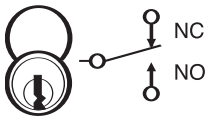
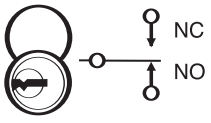
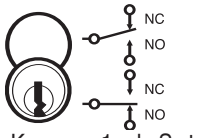
1W	7	B1	626	SWR
Series	**Core Housing**	**Function**	**Finishes**	**Box**
1W	**7–** 7 pin housing accepts all Best cores	see pages 15–19	**605 606 611 612 613 619 622 625 626 690**	see above

1W ELECTRIC SWITCH LOCKS
1W7A1

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

1W7A1



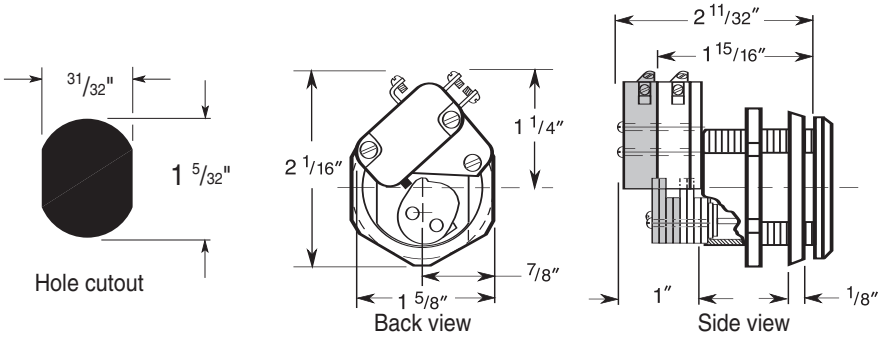
Key & switch positions	Remove key	Optional boxes
 Key pos.1– Swt. pos.1	 Key pos.2– Swt. pos.2	 Key pos. 1only Swt.	DWR INT OC1 OC2

1W7B1 & 1W7J1

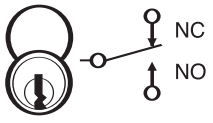
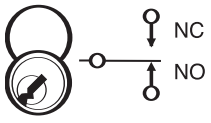
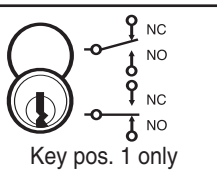
Contact rating .....30 VDC, 15 amps, resistive
125 VDC, 0.6 amps, resistive
250 VDC, 0.3 amps, resistive
125 VAC, 15 amps, resistive
25 VAC, 5 amps, lamp
250 VAC, 15 amps, resistive
Horsepower rating .....125–250 VAC, 1/2 HP
Operating temperature .....up to +176°F (+80°C)
Switch type .....SPDT (Single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

1W7B1—One switch

1W7J1—Two switches



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

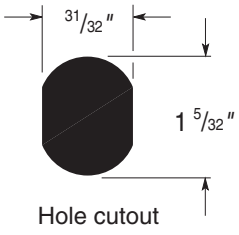
Key & switch positions	Remove key	Optional boxes
 Key pos.1– Swt. pos.1	 Key pos.2– Swt. pos.2	 Key pos. 1 only Swt. pos. 1	OC1 DWR OC2 INT SWR (1W7B1 only)

1W ELECTRIC SWITCH LOCKS

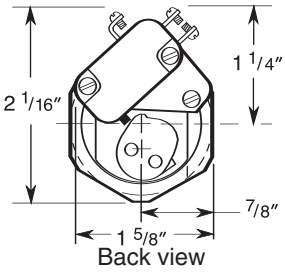
1W7B2 & 1W7J2

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 .....Maintained (on-on)
Number of switches per assembly .....1W7B2: One 1W7J2: Two

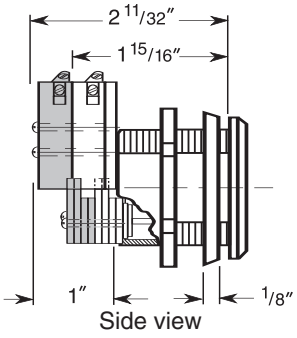
1W7B2—One switch



Hole cutout



Back view



Side view

1W7J2—Two switches

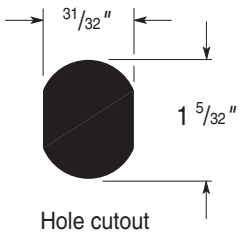
The shaded area shows the additional 1W7J2 switch and cam length.

Key & switch positions	Remove key	Optional boxes
NC / NO — Key pos.1– Swt. pos.1	NC / NO — Key pos. 2 (360°CCW) Swt. pos. 2	NC / NO / NC / NO — Key pos. 1 and 2 Swt. pos. 1 and 2	OC1 DWR OC2 INT SWR (1W7B2 only)

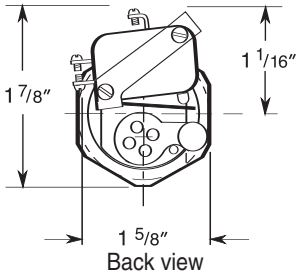
1W7B3 & 1W7J3

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 .....1W7B3: One 1W7J3: Two

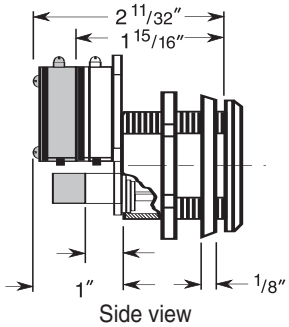
1W7B3—One switch



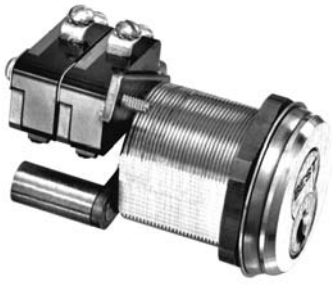
Hole cutout



Back view



Side view



1W7J3—Two switches

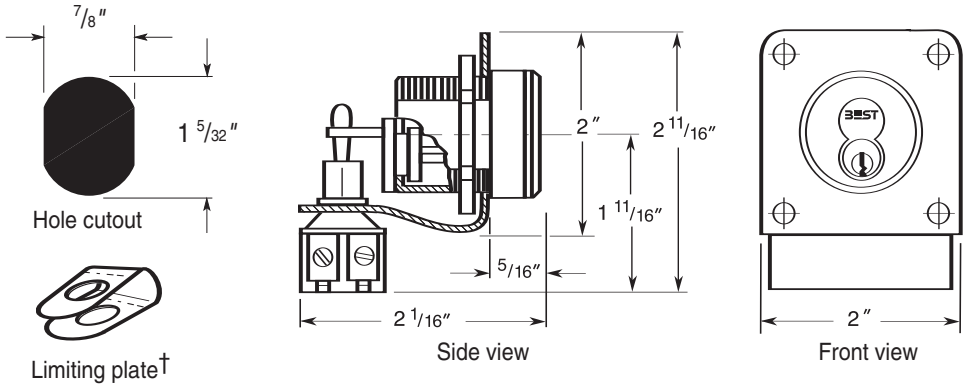
The shaded area shows the additional 1W7J3 switch and cam length.

Key & switch positions	Remove key	Optional boxes
NC / NO — Key pos.1– Swt. pos.1	NC / NO — Key pos.2– Swt. pos.2	NC / NO — Key pos.1– Swt. pos.1	OC1 DWR OC2 INT SWR (1W7B3 only)

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



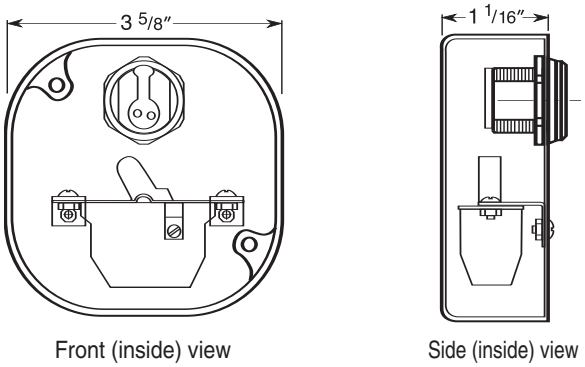
Key & switch positions	Remove key	Optional boxes
Key pos.1– Swt. pos.1		OC2 DWR
Key pos.2– Swt. pos.2		INT SWR
	Key pos. 1 only Swt. pos. 1 and 2†	

†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 +220°F (-40° to +104°C)
Switch type .....SPST (Single pole-single throw)
Switch lock action .....Maintained (off-on)
Number of switches per assembly .....One

1W7C2



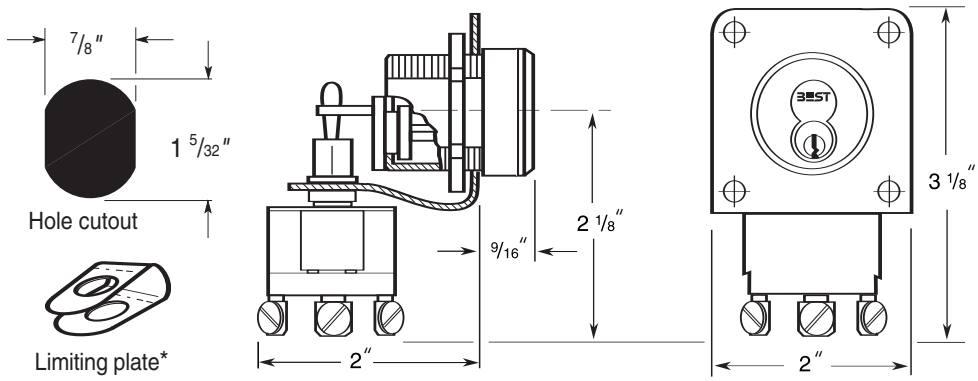
Key & switch positions	Remove key	Optional boxes
Key pos.1– Swt. pos.1		OC1
Key pos.2– Swt. pos.2		OC2
	Key pos. 3 only Swt. pos. 1 and 2	

1W ELECTRIC SWITCH LOCKS

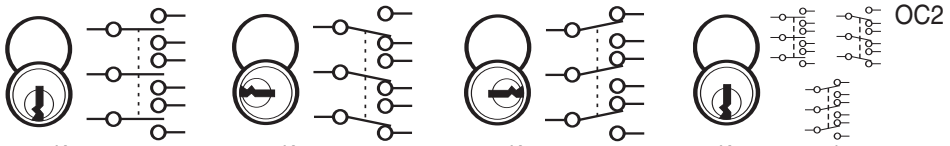
1W7E2

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

1W7E2



Key & switch positions **Remove key** **Opt. box**

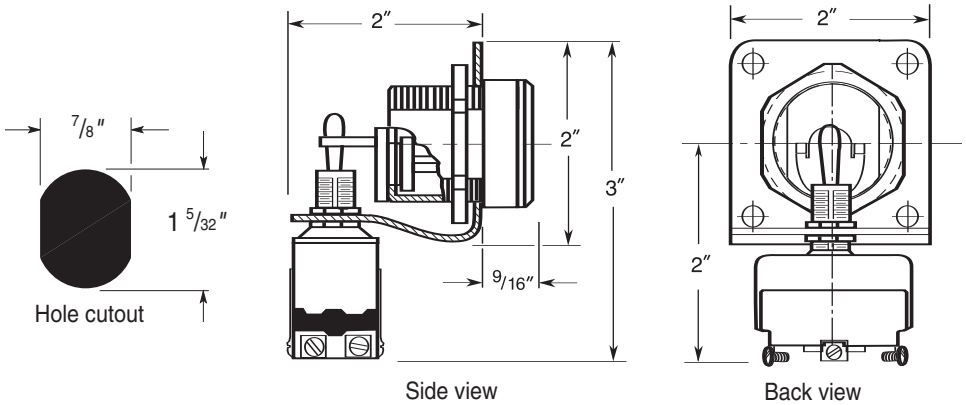


*Installing the limiting plate limits key removal to switch position 2, ***or*** 3. The key is always removed in the vertical position (key position 1). The limiting plate is available for 1W7E2 only.

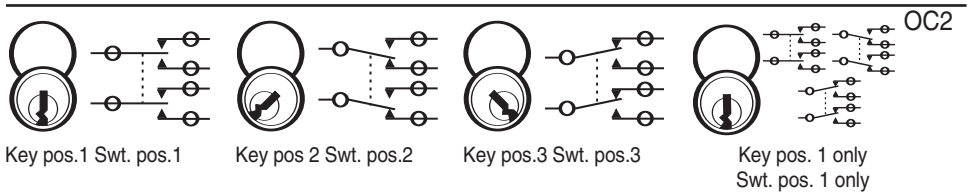
1W7K4

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

1W7K4



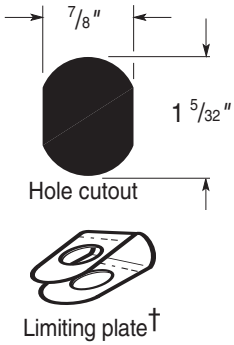
Key & switch positions **Remove key** **Opt. boxes**

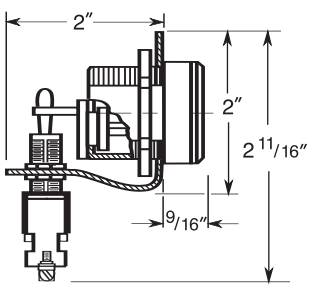


1W ELECTRIC SWITCH LOCKS
1W7L2

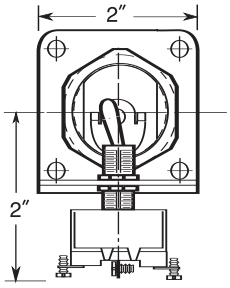
Contact rating .....110 VAC or VDC, 12 amps, resistive
220 VAC or VDC, 6 amps, resistive
Operating temperature .....up to +221°F (+105°C)
Switch type .....SPDT (Single pole-double throw)
Switch lock action .....Maintained (on-on)
Number of switches per assembly .....One

1W7L2





Side view



Front view

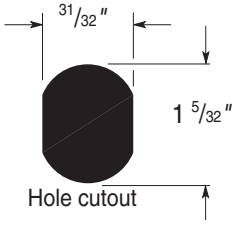
Key & switch positions	Remove key	Optional boxes
Key pos. 1 Swt. pos. 1	Key pos. 2 Swt. pos. 2	Key pos. 3 only Swt. pos. 1 and 2†	DWR OC2

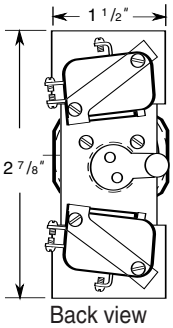
†Installing the limiting plate limits key removal to switch position 1 ***or*** 2. The key is always removed in the vertical position (key position 3).

1W7P4 & 1W7R4

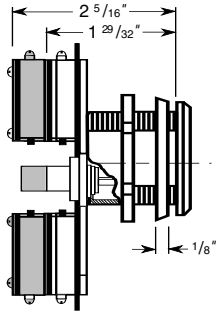
Contact rating .....30 VDC, 15 amps, resistive
125 VDC, 0.6 amps, resistive
250 VDC, 0.3 amps, resistive
125 VAC, 15 amps, resistive
125 VAC, 5 amps, lamp
250 VAC, 15 amps, resistive
Horsepower rating .....125–250 VAC, 1/2 HP
Operating temperature .....up to +176°F (+80°C)
Switch type .....SPDT (Single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

1W7P4—two switches



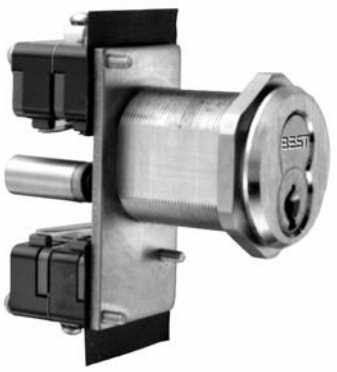


Back view



Side view

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



1W7R4—four switches

Key & switch positions	Remove key	Boxes
Key pos.1 Swt. pos.1	Key pos.2 Swt. pos. 2	Key pos.3 Swt. pos.3	Key pos. 1 only Swt. pos. 1 only	SWR† INT† DWR

†1W7P4 only

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