



**BEST**   
dormakaba Group



# W & M Series IDH MAX<sup>®</sup> & Electromechanical Locks by BEST

BEST: Setting the Standard for Security

## 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.

**C** – The easy to use quick connect system enables efficient installation to the respective BEST Lock electrical options ordered.

**IDH** – The Integrated Door Hardware groups three components into one hardware package. 1. Door status 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 turn freely when it is locked without retracting the latchbolt assembly. This feature makes over-torque 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.

**MR50** – Integrated MR50 reader electronics board or (ISC) intelligent System Controller is embedded behind the escutcheon secured and out of site. Functions with Mercury on-line equipment only.

## 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.

### How To Order BEST Quick Connect Pre-Wired Plug-In Connectors:

To order the BEST Quick Connect pre-wired plug-in connectors, include the "C" suffix for the BEST Locks. See page 20 for more details on how the BEST Quick Connect systems works.



BEST Locks  
45HW 7 DEL 14H 626 RH DSC



BEST Locks  
9KW 37 DEU 15CS TK 626 24 VC



## 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 GYOS 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

### Door thickness –

- Standard lock configuration designed for doors 1 3/4" – 2 1/4" 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.



9KW Cylindrical Electrically-Operated Lockset

### 8KW & 9KW Electrified Locks – How To Order

9KW3	7	DEU	14	K	STK	626	TL
Series Backset	Core Housing	Function	Lever Style	Trim Style	Strike Package	Finishes <sup>1</sup>	Options
<b>8KW:</b> 8KW3 – 2-3/4" 8KW4 – 3-3/4" 8KW5 – 5" <b>9KW:</b> 9KW3 – 2-3/4" 9KW4 – 3-3/4" 9KW5 – 5"	<b>0</b> – keyless <b>7</b> – 7-pin housing accepts all Best cores	<b>DEU</b> – electrically unlocked <b>DEL</b> – electrically locked	<b>8KW:</b> <b>4</b> – round <b>6</b> – tulip <b>9KW:</b> ♿ <b>14</b> – curved return ♿ <b>15</b> – contour angle return ♿ <b>16</b> – 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	605 606 611 612 613 618 619 625 626 690	<b>8KW only:</b> <b>BRK</b> – breakaway knob <b>KNL</b> – knurled knob <b>TAC</b> – tactile knob <b>9KW only:</b> <b>AL</b> – abrasive lever <b>LM</b> – lost motion <b>ROE</b> – request-to-exit <b>TL</b> – tactile lever Note: specify inside (I), outside (O), or both (B) for AL, TL, TAC, KNL options <b>8KW &amp; 9KW:</b> <b>C</b> – quick connect <b>LL</b> – lead lined <b>SH</b> – security head screws <b>3/4</b> – 3/4" throw latch <b>12V</b> – Specify 12 Volt System (standard lock voltage is 24V)
	See Below		page 11	page 11			page 3

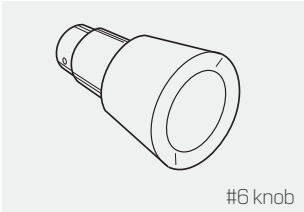
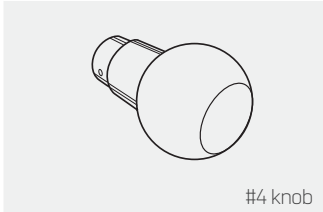
\* Handles are made from a zinc alloy, and have been plated to be equivalent in appearance to the finishes listed.

### 8KW & 9KW Electrified Locks – Functions

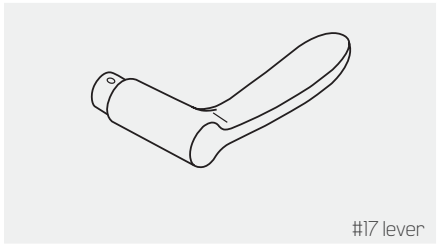
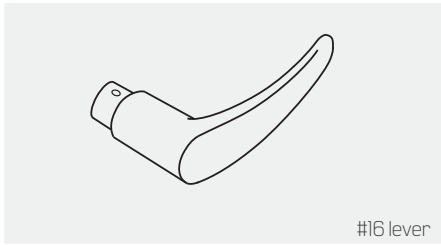
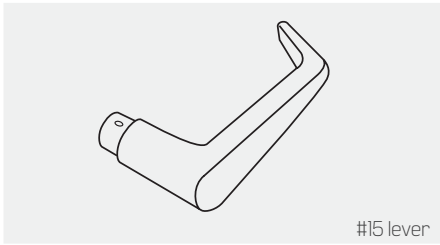
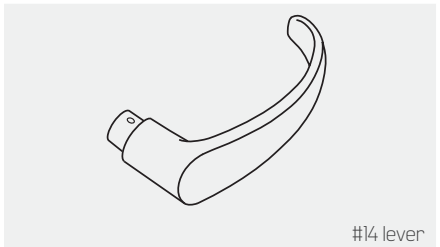
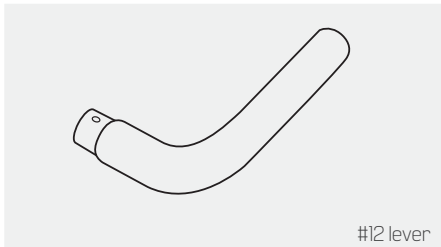
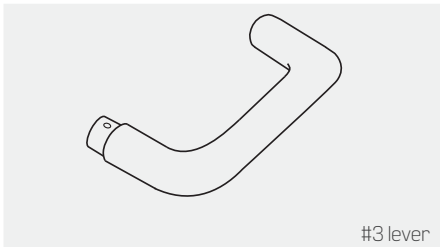
Function	Latch	Outside Knob/Lever*		Inside Knob/Lever	
	Operated by	Locked by	Unlocked by	Locked by	Unlocked by
DEL-Locked	Rotating the inside knob/lever Rotating the outside knob/lever—only when power is off Turning the key in the outside knob/lever. Locks are powered by 12 or 24 volts AC/DC at 0.50 amps or 0.18 amps. Temperature control module (TCM) included	Applying power to the solenoid; remains locked while power is on.	Removing power from the solenoid	Cannot be locked	Always unlocked
DEU-Unlocked	Rotating the inside knob/lever Rotating the outside knob/lever—only when power is on Turning the key in the outside knob/lever Powered by 12 or 24 volts AC/DC & 0.60 or 0.45 amps, continuous duty. Temperature control module (TCM) included.	Removing power from the solenoid	Applying power to the solenoid; remains unlocked while power is on.	Cannot be locked	Always unlocked

\*A ridged lever/ knob in a non-energized state.

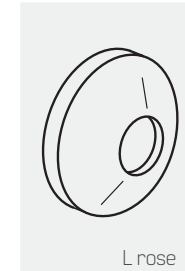
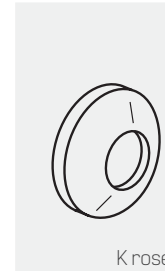
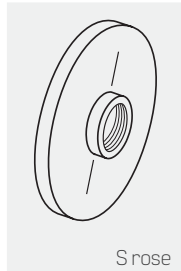
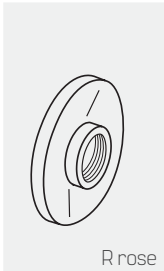
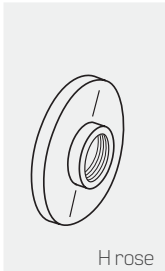
# Knob Styles



# Lever Styles

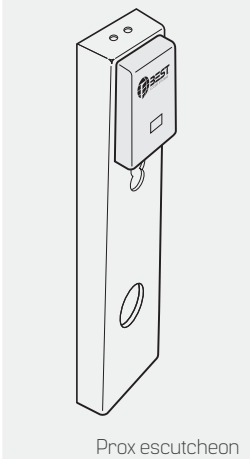
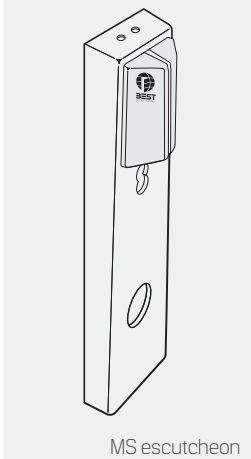
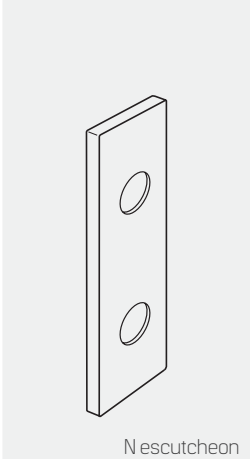
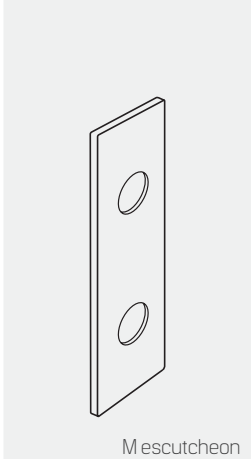
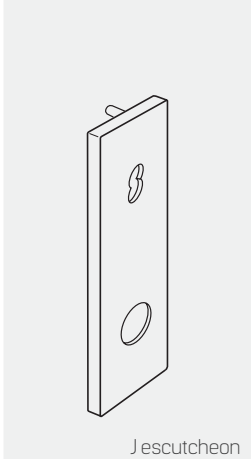


# Mortise Rose Trims



# Cylindrical Rose Trims

# Escutcheon Trim Variations



## 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 pigtailed provided for quick primary connection
- Secondary connection by screw terminals
- Sturdy nylon bobbin construction
- Cadmium plated finish



#### 8W599 Specifications

**Primary voltage** – 120 VAC (Wire Leads)

**Secondary voltage** – 124 VAC (Screw Terminals)

**Secondary VA** – 140 volts-amperes

**Dimensions** – 12-1/4" x 2-1/8" x 2-15/16"

**To order specify:** 18W599

**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

#### 8W599 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

**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 / 8WBU-1-N 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

**Standard 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

**To order specify:**  
8WCON

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



# Electrified Accessories

## Temperature Control Module Features

- All circuitry completely sealed



### Temperature Control Module 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 Voltage** – 12 or 24 volts AC or DC

**Output Voltage** – Full 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 2-1/4" x 1/2"

**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.