BEST
dormakaba Group

W & M Series

IDH MAX® & Electromechanical Locks

by BEST

BEST: Setting the Standard for Security

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IDH MAX® – Introduction

The IDH MAX® from BEST 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 BEST 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.bestaccess.com. IDH MAX® and W series locks are compatible with BEST's NT500, Mercury and most other Access Control Systems. The IDH Max® MR50 option will only work with the Mercury system and only on electrically unlocked "EU" functions.

IDH MAX® – Features

IDH Max® Features

Includes latch status, door status and request to exit features
NOTE: Latch Status not available on Deadbolt functions

- The MR50 option eliminates the need for a PIM (Panel Interface Module)
- 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 door contact magnet is installed behind the strike and out ofsite (except when deadbolt option is ordered)
- All sensors are standard in IDH Max mortise locks
- The heavy duty design of the mortise lock results in less field maintenance and part failures
- 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 Usable in most environmental/exterior applications.

MR50 Option Features

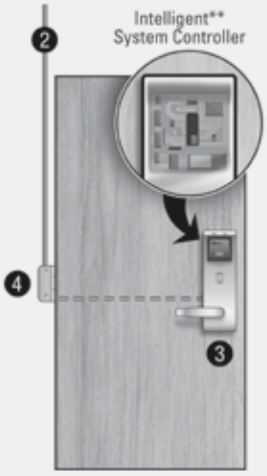
- Eliminates need for small panel interface module
- Eliminates reader interface board
- Incorporates 3 modules into a single electronics board inside IDH Max escutcheon trim
- Connects directly to ACP via 2 wire RS485 connection

IDH MAX® & IDH MAX® MR50 Comparison Chart

IDH MAX®

- Prep door for IDH MAX®
- Run single 4 conductor wire for IDH MAX®
- Install IDH MAX®
- Install electrified hinge
- Mount PIM

* Operates with most control panel hardware, Mercury control panels.



IDH MAX® MR50

- Prep door for IDH MAX®
- Run single 4 conductor wire for IDH MAX® MR50
- Install IDH MAX® MR50 which includes Intelligent System
- Install electrified hinge

** Operates with Mercury 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.

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.

9KM IDH MAX® – Specifications

Mechanical

9KM IDH MAX® Mortise

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, bronze, or stainless steel base material; STK 2-3/4" H standard, S3 4-7/8" H. Fits standard door frame cut out as specified in ANSI A115.1. Strike box supplied as standard.
Backset – 2-3/4" standard, 3-3/4" and 5" available.
Door Thickness – Standard lock configuration designed for doors 1-3/4" – 2- 1/4" thick.
Installation – Lock dimensions requires modified door prep ANSI A156.2 Series 4000, Grade 1 to mount housing.
Latchbolt – 9/16" throw.
Escutcheons – 10-1/2" H x 3-5/16" W x 1" D (1" at the top, sloping down to 3/4" at the bottom).
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 styles 14 and 15 return to a minimum of 1/2" of door surface. Lever 16 does not return..

Finishes –

- 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 (brass base material)
- 626 - satin chromium plated (brass base material)
- 690**- dark bronze coated (brass base material)

* 613 finish is designed to wear over time, providing an "antique" appearance. ** 690 finish will continue as a dark brown appearance over time.

Antimicrobial Finishes –

- 626AM – Satin Chrome Plated with UltraShield Antimicrobial coating
- 630AM – Satin Stainless Steel with UltraShield Antimicrobial coating

Electronic

Maximum current draw – 850 MilliAmps, for 50 milliseconds
Typical Current Draw (hold condition) – 550 milliAmps
Voltage – 10.2 to 13.2 V (DC only)
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.
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 most 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

9KM3	7	DDEU	14	MS	STK	626	
Series Backset	**Core Housing**	**Function Code**	**Lever Style**	**Trim Style**	**Strike Package**	**Finishes****	**Options**
Lever: **9KM3** – 2-3/4" **9KM4** – 3-3/4" **9KM5** – 5" **Knob:** **8KM3** – 2-3/4" **8KM4** – 3-3/4" **8KM5** – 5"	**0** – keyless **7** – 7-pin housing accepts all Best cores	**DDEU**– electrically unlocked **DDEL**– electrically locked	**Standard Levers:** **14** – curved return **15** – contour/angle return **16** – curved/ no return **Knobs:** **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 **Antimicrobial Finishes** 626AM – Satin Chrome Plated with UltraShield Antimicrobial coating 630AM – Satin Stainless Steel with UltraShield Antimicrobial coating	**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:** **C** – quick connect, SH – security head screws **3/4** – 3/4" throw latch **MR50*** – Mercury Direct Connect Non-programmed / open
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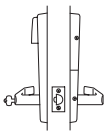
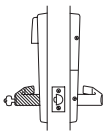
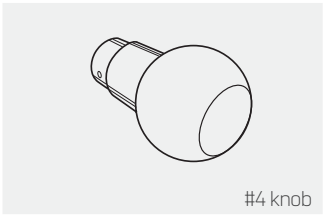
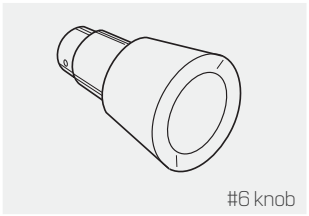
Please reference the BEST price list for a complete list of options. ** Handles and trim are made from a zinc alloy, and have been plated to be equivalent in appearance to the finishes listed.

Cylindrical Lock – Functions

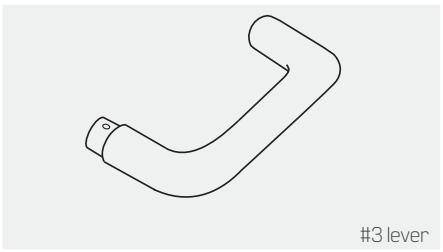
	Latch	Outside Knob/Lever*		Inside Knob/Lever	
Function	Operated by	Locked by	Unlocked by	Locked by	Unlocked by
DDEL–Locked 	Rotating the inside knob/lever, Rotating the outside knob/lever–only when power is off Turning the key in the outside knob/lever Latchbolt is deadlocked	Applying power to the solenoid; remains locked while power is on.	Removing power from the solenoid	Cannot be locked	Always unlocked
DDEU–Unlocked 	Rotating the inside knob/lever, Rotating the outside knob/lever–only when power is on Turning the key in the outside knob/lever Latchbolt is deadlocked	Removing power from the solenoid	Applying power to the solenoid; remains unlocked while power is on.	Cannot be locked	Always unlocked

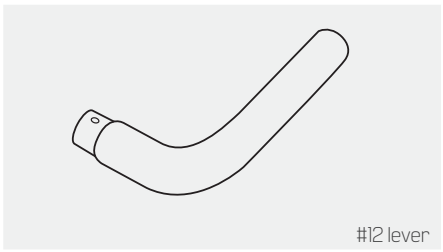
Knob Styles

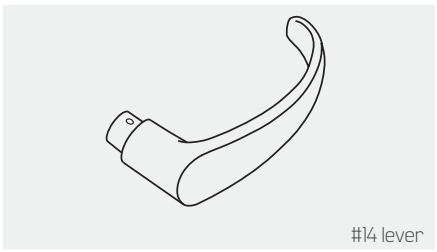

#4 knob

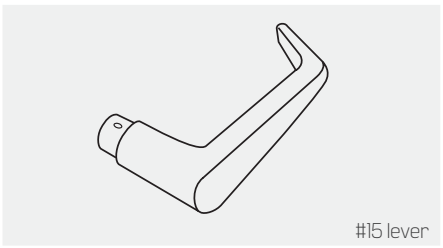

#6 knob

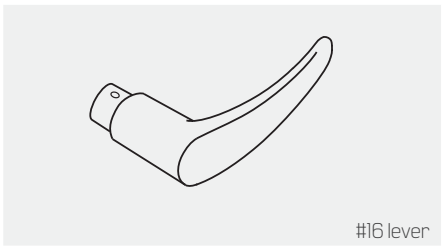
Lever Styles

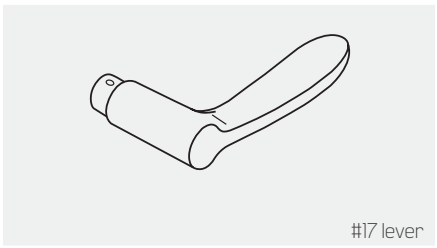

#3 lever


#12 lever

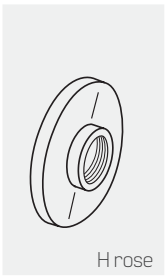

#14 lever

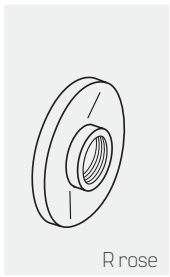

#15 lever

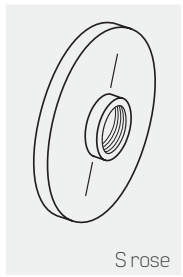

#16 lever


#17 lever

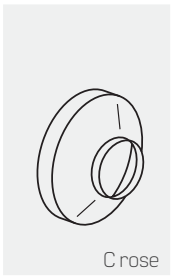
Mortise Rose Trims

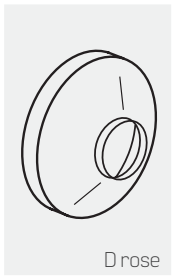

H rose


R rose


S rose

Cylindrical Rose Trims

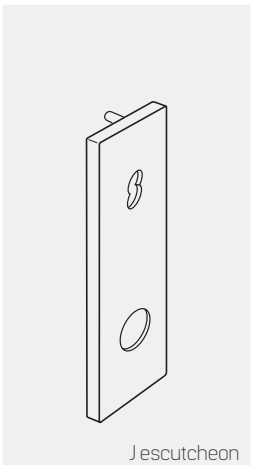

C rose

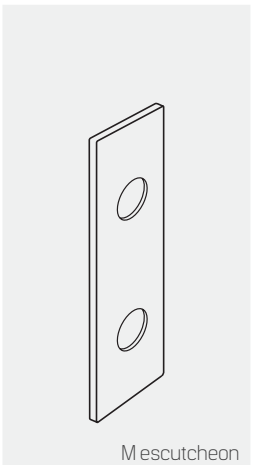

D rose

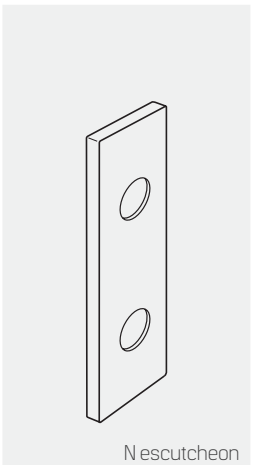

K rose

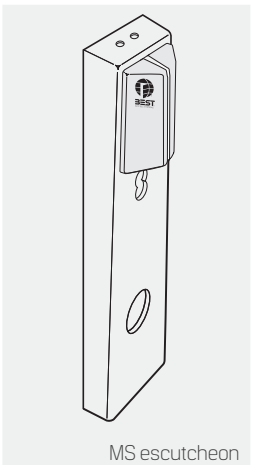

L rose

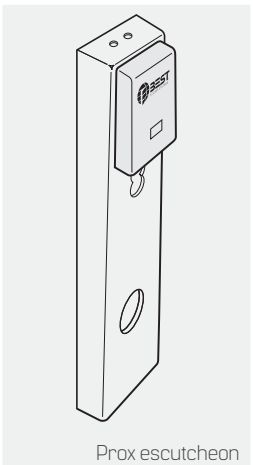
Escutcheon Trim Variations


J escutcheon


M escutcheon


N escutcheon


MS escutcheon


Prox escutcheon