STANLEY

Security Solutions

OMNILOCK

WIRELESS ACCESS CONTROL SYSTEMS

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INTRODUCTION

The Stanley Security Solutions Team proudly presents the OMNILOCK Wireless Access Management System (WAMS). This cutting-edge-technology system allows end users to control access to their facilities from a central networked computer, from their remote work stations, or via VPN-connected machines.

Various reader technologies on locks allow users to gain access by 4-10 digit keypad Code only, by HID proximity card or keyfob only, by Magnetic card only or, for applications where higher levels of access control and security are required, users may be required to enter a Proximity Card, a Magnetic card followed by a 3 to 6 digit PIN. Card reader systems are also available without keypad (shown below right). WAMS reader-locks' non-volatile microprocessor and memory electronics record, store, and wirelessly forward the lock audit trail by date, time and use. All lock events including entries, entry attempts, tampers, time scheduled access level changes; and on certain readers, mechanical key-bypass, are recorded.

In addition, the Cylindrical OMNILOCK WAMS and Exit Device adapter systems install in standard ANSI 115.2 (formerly 161) door prep or Exit Device mechanical trim door preps and require NO extra holes to be drilled in the door. The Quick-Adapter configuration adapts to several selected existing mechanical exit devices. The WAMS System is available in Cylindrical, Mortise, Mortise-with-deadbolt, Quick Adapter, Wall Mount System, Exit Device Trim, and Single Door Controller configurations. Lastly, the Wireless Electronics modules retrofit onto many legacy OMNILOCK OM50, OM100-300-500, OM2000, or OP2000 systems.

In conclusion, the Stanley OMNILOCK Wireless Access Management System (WAMS) is a smart, easy-to-install access control solution that will change the entire access control industry. The system's 128-Bit AES encryption and efficient power management provide unequaled benefits for the user who desires on-line features without the high cost of on-line installation, maintenance, and expansion. WAMS' redundant paths of data, long battery-life, and intelligence at the door make it the obvious choice for your future security.

Above is a Grade-1 Cylindrical Proximity Dual Validation lock (p/n 93KOM-7-DV-15-PDVW-B-S3-626). Below is a Wireless Exit Trim on a Von Duprin 98/99 Device (p/n QAXOM-0-15-PHW-C-626-VD9-RHRB-W-SCH)

STANLEY®

WIRELESS ACCESS

The Stanley OMNILOCK Wireless Access Management System (WAMS) offers the combined strength of the industry's most widely-accepted HID proximity and magnetic card technology and OMNILOCK's proven electronic superiority. Manufactured in America, the WAMS provides all the superior features and quality that you have come to expect from Stanley Security Solutions and OMNILOCK.

- Stand-alone and powered by four 'AA' alkaline batteries

- The Single Door Controller (SDC) is capable to be wired with 24 VDC for operating power, yet still shall have battery power for backup in case of power outage

- Programmable via wireless Portals from a remote Host computer or computers. Many users manage via VPNs

- Capable of remote Unlocks or Lockdowns

- All electronic locks or modules may be programmed to operate on independent time schedules

- All systems feature diagnostics and alerts for preventive maintenance of batteries, and signal strength at the door or from the Host computer or VPN

- The systems feature Flash Memory which stores lock data and allows easy installation of all lock software upgrades

- Accepts Magnetic cards, HID proximity cards of 26-bit, 35-bit, 37-bit, and proprietary-bit formats, and/or Codes

- Systems may be ordered with or without digital keypad to allow Proximity or Magnetic card use only

- All systems allow up to 65,000 users per door

- Audit trail of up to 89,000 events identifies user name, date, time of entry or attempted entry, and other audited events

- 176 Time Zone Intervals/Holidays per Time Zone

- All systems allow authorized users to locally change the access levels of the systems. These changes, which include Lockdown, are reported to the host computer(s) and are recorded in the Audit Trail

- Optional key-detection in the audit trail for Mortise locksets

FUNCTIONAL SPECIFICATIONS ID TYPES
HID Proximity Card (multiple formats), Magnetic Cards (Track-2 or Track-3), Keypad ID 4 to 10 digits in length, and/or PIN lengths of 3 to 6 digits long

PROGRAMMER ID
May reset locksets for maintenance

MANAGER ID
Sets Access Levels at readers

GENERAL USER ID
Allows access when access level is at Enrolled ID Required and user group is enabled

ACCESS LEVELS
Level 2: Free passage – Unlocked
Level 3: Remains Unlocked after first valid ID
Level 4: Remains Unlocked after first valid ID and PIN
Level 5: Enrolled ID Required (ID Code or Card)
Level 6: Enrolled ID and PIN required
Level 7: Facility ID card required
Level 8: Lockout (Manager or Programmer ID allowed only if privileges have been assigned)

TRANSACTION LOG
Transactions:
Readers retain up to the last 89,000 events, whether keypad code, proximity card or fob, key bypass detection, anti-tamper, attempt by unauthorized user, remote switch operation, or Time scheduled event. Portals cache last 50,000 events
Events Audited:
Multiple events are recorded
Record Format:
Date, Time, Identity, Event

TIME ZONES
Sets Access Level and controls access by user groups automatically at selected preprogrammed times. May be pre-programmed for holiday scheduling and allows daily, weekly, monthly, or annual recurrence.

Capacity:
176 Timezone Intervals / holiday periods
User Groups:
32 Timezone User Groups and unlimited Association User Groups

INTERNAL CLOCK
Resolution:
1 minute with leap year correction
Daylight Savings:
Automatic or manual corrections

LOCKING HARDWARE FEATURES

- Dynamic Credential Storage up to 65,000 users per reader

- Each Reader has its own unique MAC Address

- Battery operated by 4 'AA' Alkaline batteries

- Readers may be hard-wired to 24VDC for power

- All intelligence is stored at the door, NOT at a Controller

- Integrated door switch monitor and request to exit switch (DSR), Key Override Sensor (KOS) and Latch Switch Monitor (LSM) are all available as an options on the 45HOM mortise locksets

- Integrated door switch monitor and request to exit switch (DSR), is available as an option on the 93KOM cylindrical locksets

- Variable Alarm Shunts available on ALL WAMS systems

- 89,000-event audit trail dynamically stored at ALL systems

- 176 Timezone Intervals/Holidays per Reader

- All locksets are ADA Compliant

- Available in Cylindrical, Mortise, Wall Mount, Quick Adapter, Exit Device Trim, and Single Door Controller configurations

- Accepts Track 2-3 Magnetic-striped cards, 125-KHz Proximity Cards, Keypad Codes, or Dual Validation (card-plus PIN)

- Dual Processors and Flash technology ensure efficient data transfer and allow Wireless Firmware upgrades

- Real-time reader diagnostics available from Host or VPN PC

Wireless OMNILOCK Mortise systems offer additional security and durability for high traffic or perimeter applications. Shown is p/n 45HOM-7-DV-14-MDVW-H-C-626-RH-DSR

SINGLE DOOR CONTROLLER FEATURES

- Provides Wireless control of electrified hardware on aluminum or glass store-front doors, drive-through gates, elevators, or turnstiles

- Dual Form-C Relays allows simultaneous control of any 24 DC/VAC hardware while offering Alarm Shunt capability

- Dual output relays may also be used for peer-to-peer control of cameras or alarms

- Recommended for Exterior or hard-to-install hardware applications

- Allows for Wireless conversion of existing hard-wired readers

- Easy-to-connect terminal blocks allow connection and monitoring of Door Latch (DL), Door Status (DS), and Request-to-Exit (RQE)

- Standard integrated DS, LS, RQE, and Relay Control on all Single Door Controller (SDC) systems

- Facilitates ADA compliance for control of auto-open type doors

- Provides an easy control interface for local door alarm/sounders where door held-open events need to be monitored

- Allows point-of-input for locally-initiated alarms or duress events

- Powered by 4 'AA' Alkaline batteries but may also be wired to 24VDC for primary power with 'AA' batteries as backup power

Single Door Controller (above) with half-wave dipole antenna is p/n OMX-SDC

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WIRELESS ACCESS

- Communicates at 2.4 GHz spread-spectrum with wireless readers or single door controllers

- Each portal gateway has its own MAC Address 16-Channel 802.15.4 protocol allows data-collision-free operation and interoperability in 802.11 WiFi concentrated environments (i.e. schools, hospitals)

- Features redundant communication (readers link with strongest portal gateway signal)

- Each portal communicates with up to 128 WAMS readers as available in RF range

- Antennas available for different site applications: omni-directional, directional, ceiling-mounted, etc)

- Caches 50,000-events in dynamic flash circuitry

- Connects directly to TCP/IP network– no RS-485, RS-232, or RS-422 connections

- POE-compatible splitters/inserters available for isolated locations that have no AC power outlets

- Real-time portal diagnostics monitor RF signal strength, RF Interference, and portal capacity

Wireless Portal Gateways communicate with up to 128 Readers (typical applications are 20-30 readers per Portal). 64-Door Portal Gateway shown above is p/n OMX-12811

COMPONENTS

Proximity Enrollment Readers p/n OMD-11507-002 (above) enroll Proximity cards into the WAMS software application


Ceiling-mount antennas (above) connect to Portal Gateways or to Single-Door Controllers. Order p/n WQD-ACMO.

Power-over-Ethernet devices (above) allow use of WAMS Portals in areas where no AC power is available. Order p/n OMD-12927-001 and OMD-12928-001 for POE Insertion and Splitter components, respectively.
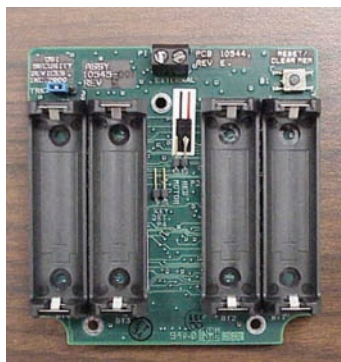
Wireless Conversion Kits p/n OMD-12657-01 allow users to upgrade their Non-Wireless OMNILOCK systems to WAMS Wireless Systems
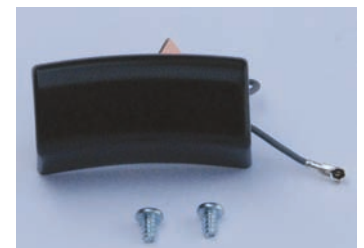
CONTROL SYSTEMS

SYSTEM REQUIREMENTS

The OMNILOCK WAMS cylindrical, mortise, quick adapter, wall mount, exit device, or single door controller systems all program wirelessly via the Stanley OMNILOCK portal gateway(s) that plug into an existing or dedicated ethernet network. The Wireless access management software runs on a Microsoft® Server 2003 platform that is connected to a network. The WAMS system can manage thousands of users in its powerful SQL database. If users want to enroll their existing magnetic or proximity cards, they must have a magnetic card enroller or proximity card enrollment reader (not needed for keypad-code-only systems).

1) Wireless OMNILOCK administrator's kit p/n OMS-12418-001 (includes software, admin Guide, quick user reference cards, and default programming proximity and/or magnetic cards)

2) Proximity Card Enrollment Reader p/n OMD-11507-002 (USB)

3) HID Proximity Cards, Keyfobs, and/or eProx Tags

4) 64-Reader Portal Gateway(s) that plug onto an existing or dedicated ethernet network p/n OMX-12811 (available only from certified Stanley OMNIlock dealers)

5) WAMS Readers and Locks (for the ordering sequence see page 10 – also examples below and on page 7)

Wireless exit device trims are available for Precision, Sargent- Arrow, Von Duprin, Corbin-Russwin-Yale, Detex, and Dorma exit devices. Available for both Standard or interchangeable core cylinders. The system shown above is Stanley p/n QAXOM-7-14-PDVW-C-626-PH2-LHRB-W

BACKSIDE ANTENNA KIT

To order backside antenna kit specify part number 3114285.

Note: The backside antenna can be used on Omnilock wireless locks that would benefit from the antenna being on the interior side of the door. One such application would be solid metal doors.

Mounting Bracket

Cover/Antenna

Antenna Jumper Cable

Through bracket area to circuit board
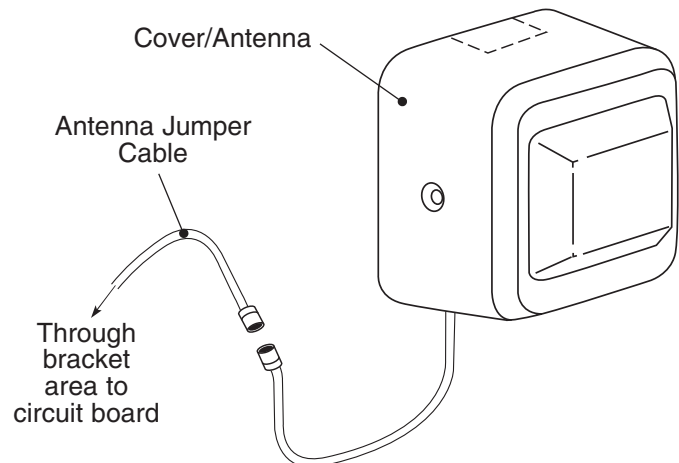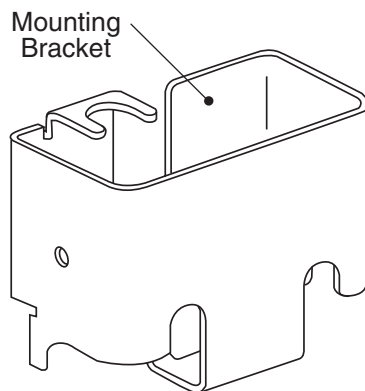
STANLEY OMNILOCK WALL MOUNT SYSTEM

The versatile Stanley OMNILOCK Wall Mount System allows end users to control almost any electrified circuit. This system incorporates a Form-C relay that is capable of controlling 12-24 DC/AC voltage circuits. This Form-C relay has two sets of contacts: one is normally open (Fail Safe), and one is normally closed (Fail Secure). Either or both of these contacts may be used at any time. Additional relays may be added to the systems if desired. The current rating of the Wall Mount System Form-C relay is 6 amperes, so this system can handle any electrified hardware.

The Wall Mount System is available in the following Omnilock wireless configurations:
   1) Magnetic Stripe card and keypad OM2000 system or WAMS Wireless Magnetic Card Reader system.
   2) HID Proximity card reader and keypad OP2000 or WAMS Wireless Proximity Card Reader system.

The Wall Mount System is used to control a variety of hardware including electric strikes, magnetic locks, electrified exit devices, drive-through gates, elevators, or other special electric circuits. Additionally, Every Wall Mount has built-in "cold" contacts to allow remote-switch opening or wiring into fire alarm circuits.

CONTROL SYSTEMS

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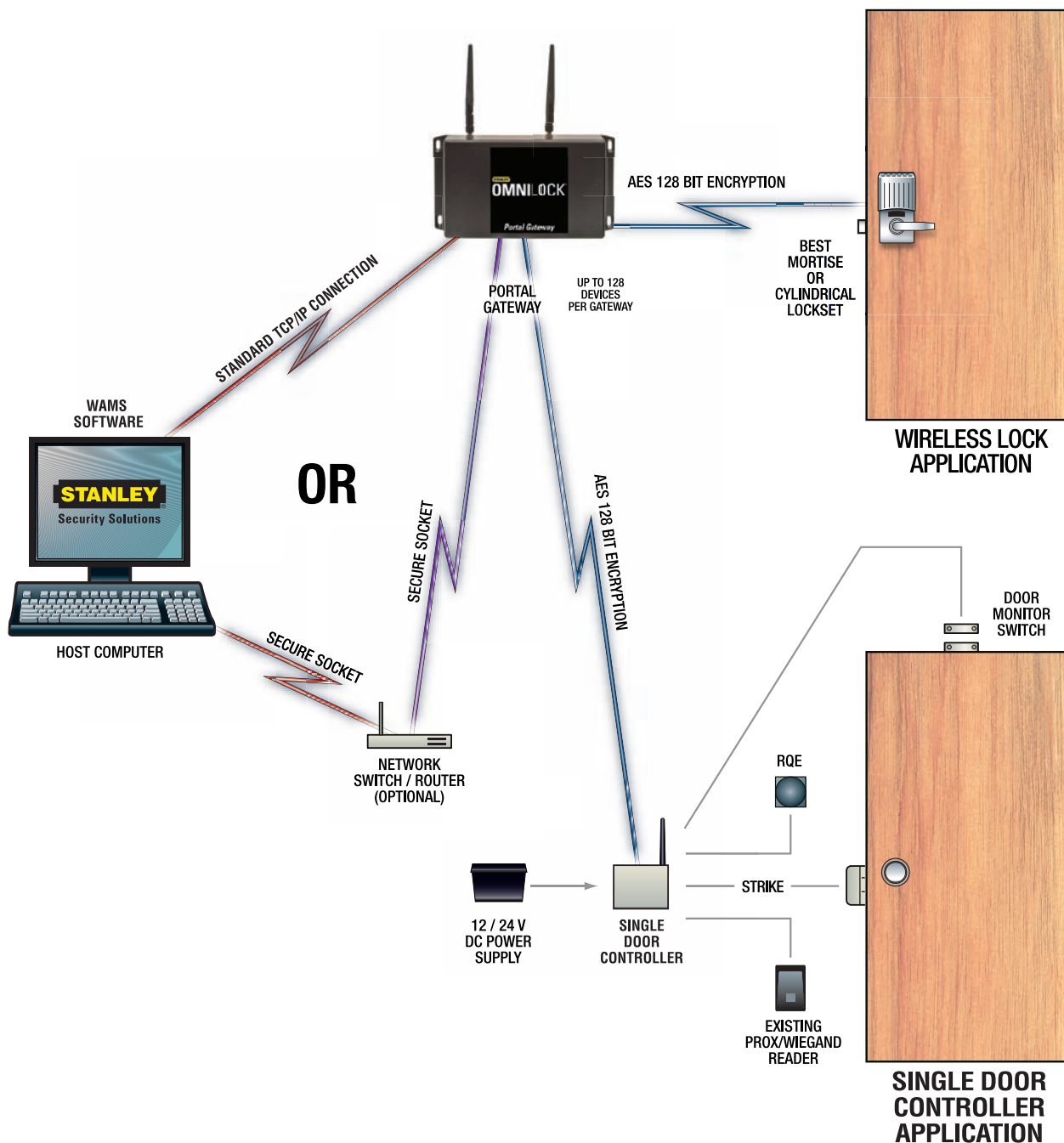# WIRELESS INSTALLATION DIAGRAM

Wall Mount

Gate Mount

Wireless Entrance

AES 128 BIT ENCRYPTION

BEST MORTISE OR CYLINDRICAL LOCKSET

WIRELESS LOCK APPLICATION

PORTAL GATEWAY

UP TO 128 DEVICES PER GATEWAY

STANDARD TCP/IP CONNECTION

WAMS SOFTWARE

OR

HOST COMPUTER

SECURE SOCKET

SECURE SOCKET

AES 128 BIT ENCRYPTION

NETWORK SWITCH / ROUTER (OPTIONAL)

DOOR MONITOR SWITCH

RQE

STRIKE

12 / 24 V DC POWER SUPPLY

SINGLE DOOR CONTROLLER

EXISTING PROX/WIEGAND READER

SINGLE DOOR CONTROLLER APPLICATION

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WIRELESS ACCESS

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Ordering Example:

1. Select **Series** (45HOM)   **45HOM**
2. Select **Cylinder Core Housing** (0,7)   45HOM-**7**
3. Select **Function Code** (DV, TV) page 11   45HOM-7-**DV**
4. Select **Lever** Style (3, 14, 15, 16) page 11   45HOM-7-DV-**15**
5. Select **Trim** Style (MDVW, KW, MSW, PDVW,PHW)   45HOM-7-DV-15-**PDVW**
6. Select **Rose** Style (H) page 11   45HOM-7-DV-15-PDVW-**H**
7. Select **Housing Finish** {B (black), G (grey), C (chrome)}   45HOM-7-DV-15-PDVW-H-**C**
8. Select Lock **Trim Finish** (612, 613, 626, 690) page 11   45HOM-7-DV-15-PDVW-H-C-**626**
9. Select **Door Han**d (RH, RHRB, LH or LHRB)   45HOM-7-DV-15-PDVW-H-C-626-**RH**
10. Select **Options** {(DSR, KOS, LSM, Thick Door (specify   45HOM-7-DV-15-PDVW-H-C-626-RH-**W**
    Thickness), W (weatherized –20 to +54C)}

NOTE: The above example is for a Wireless 45H Mortise Lock, With SFIC Core prep (no core included), Latch Non-deadbolt, Contour Angle Lever Style, Proximity Dual Validation, H Rose size, Chrome Housing, ` 626 Finish, Right-handed, and Weatherized.

Ordering Example:

1. Select **Backset** (93KOM 2-3/4", 94KOM 3-3/4", 95KOM 5")   **93KOM**
2. Select **Core Housing** (0 Non-Best, 7 Best IC with no core)   93KOM-**7**
3. Select **Function Code** (DV with key) page 11   93KOM-7-**DV**
4. Select **Lever** Style (14, 15, 16) page 11   93KOM-7-DV-**14**
5. Select **Trim** Style (MDVW, KW, MSW, PDVW,PHW)   93KOM-7-DV-14-**PDVW**
6. Select **Housing Finish** {B (black), G (grey), C (chrome)}   93KOM-7-DV-14-PDVW-**B**
7. Select **Strike** Package (STK– standard, S3– ANSI) page 11   93KOM-7-DV-14-PDVW-B-**S3**
8. Select Lock **Trim Finish** (612, 613, 626, 690) page 11   93KOM-7-DV-14-PDVW-B-S3-**626**
9. Select **Options** {DSR, W (weatherized –20 to +54C),   93KOM-7-DV-14-PDVW-B-S3-626-**DSR**-**W**
   COR, MED, SAR, SCH, YAL, SCHRC– 14 and 15 lever only}

NOTE: The above example is for a Wireless 93K Cylindrical Lock, With SFIC Core prep (no core included), with Key, Curved with Return Lever Style, Proximity Dual Validation, Black Housing, ANSI Strike, 626 Finish, with Door Switch Monitor and REX options <u>and</u> the Weatherized option.

Ordering Example:

1. Select **Series** (OMEM)   **OMEM**
2. Select **Lockset Type** (C– Cylindrical, M– Mortise)   OMEM-**C**
3. Select **Trim** Style (MDVW, PDVW)   OMEM-C-**PDVW**
4. Select **Housing Finish** {B (black), G (grey), C (chrome)}   OMEM-C-PDVW-**C**
5. Select **Options** (W- weatherized –20 to +54C)   OMEM-C-PDVW-C-**W**

NOTE: The above example is for a Wireless Electronic Module for a Cylindrical lock, with Proximity Dual Validation, Satin Chrome Housing, and Weatherized.

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HOW TO ORDER:
OMWMS WALL MOUNT SYSTEMS

Ordering Example:

1. Select **Series** (OMWMS)	**OMWMS**
2. Select **Core Housing** (BE– Best 5E Cylinder NOT included, it must be ordered separately– p/n 5E7A1-C1-14-3-R-360-626)	OMWMS-**BE**
3. Select **Trim** Style (MDVW, PDVW)	OMWMS-BE-**MDVW**
4. Select **Housing Finish** {B (black), G (grey), S (chrome)}	OMWMS-BE-MDVW-**G**
5. Select **Options** (W- weatherized –20 to +54C)	OMWMS-BE-MDVW-G-**W**

NOTE: The above example is for a Wireless Wall Mount System, with a keyed Best 5E Utility Cylinder Magnetic Card Dual Validation, Grey Electronic Housing, and Weatherized.

HOW TO ORDER:
QASOM QUICK ADAPTER for SELECTED SCHLAGE D–SERIES AND AL SERIES LOCKS

Ordering Example:

1. Select **Series** (QASOM)	**QASOM**
2. Select **Trim** Style (MDVW, PDVW)	QASOM-**PDVW**
3. Select **Housing Finish** {B (black), G (grey)}	QASOM-PDVW-**B**
4. Select **Options** (W- weatherized –20 to +54C, IC– for IC Schlage locks, STD– for non-IC Schlage locks)	QASOM-PDVW-B-**IC**

NOTE: The above example is for a Wireless Quick Adapter, Proximity Card Dual Validation, Black Electronic Housing, and with driver for existing Schlage IC-core lockset.

HOW TO ORDER:
QAXOM QUICK ADAPTERS FOR EXIT DEVICES

Ordering Example:

1. Select Series (QAXOM)	**QAXOM**
2. Select Cylinder Housing (0- Non-IC, 7– Best IC no core)	QAXOM-7
3. Select Lever Style (14 curved return, 15 contour angle return) page 11	QAXOM-7-14
4. Select Trim Style (MDVW, KW, MSW, PDVW,PHW)	QAXOM-7-14-PDVW
5. Select Housing Finish {B (black), G (grey), C (chrome)}	QAXOM-7-14-PDVW-C
6. Select Lever Finish (612, 613, 626) page 11	QAXOM-7-14-PDVW-C-626
7. Select Adapter Plate (CY1– Corbin-Russwin/Yale, PH2– Precision, SA7, 8, 9– Sargent Series, VD8– Von Duprin 98/99 EO, VD9– Von Duprin 98/99F)	QAXOM-7-14-PDVW-C-626-PH2
8. Select Door Hand (RHRB, LHRB)	QAXOM-7-14-PDVW-C-626-PH2-LHRB
9. Select Options {SCH– Schlage non-IC, (Thick Door (specify Door Thickness), W (weatherized –20 to +54C)}	QAXOM-7-14-PDVW-C-626-PH2-LHRB-W

NOTE: The above example is for a Wireless Exit Device Quick Adapter, Best IC Core, Curved Return lever, Proximity Card Dual Validation, Chrome Electronic Housing, 626 Lever Finish, with Precision APEX Adapter Kit, Left-Hand Reverse Bevel, and Weatherized (see page 6 for an example of this system).
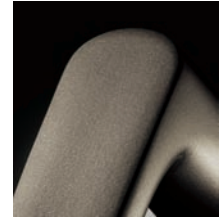
MISCELLANEOUS — FINISHES

612-satin bronze, clear coated

613-oxidized satin bronze, oil rubbed

626-satin chromium plated

690-dark bronze, powder coated

LEVER STYLES

Cylindrical #14

Cylindrical #15
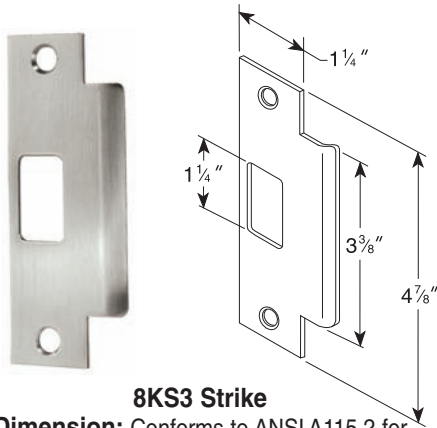
Cylindrical #16

Mortise #3

Mortise #14

Mortise #15

Mortise #16

STRIKES

8KS3 Strike
Dimension: Conforms to ANSI A115.2 for
$1\,^3/_4''$ doors ($4\,^7/_8''$ x $1\,^1/_8''$ with curved lip).
To order: (with unit) designate "S3".
To order: (without unit) designate 8KS3 + finish.

$1\,^1/_4''$
$1\,^1/_4''$
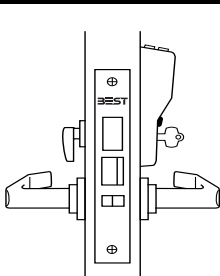$3\,^3/_8''$
$4\,^7/_8''$
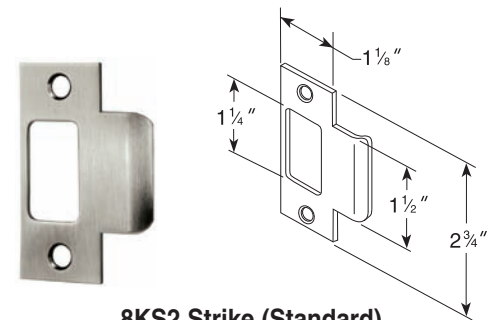
8KS2 Strike (Standard)
Dimension: Conforms to ANSI A115.2 for $1\,^3/_8''$
doors ($2\,^3/_4''$ x $1\,^1/_8''$ with curved lip and box).
To order: (with unit) designate "STK".
To order: (without unit) designate 8KS2 + finish.

$1\,^1/_8''$
$1\,^1/_4''$
$1\,^1/_2''$
$2\,^3/_4''$

MORTISE FUNCTIONS

TV
Deadbolt with key override

Latchbolt operated by:
• Outside key
• Outside lever - unless locked by internal motor drive mechanism
• Inside lever
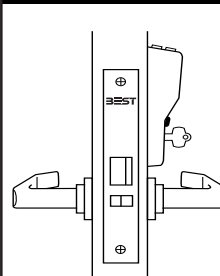**Latchbolt deadlocked by:**
• Auxiliary latch
Deadbolt operated by:
• Outside key
• Inside turn knob
• Outside lever when lever is unlocked by internal motor drive mechanism (retracts only)
• Inside lever (retracts only)
Outside lever locked and unlocked by:
• Internal motor drive mechanism operated by time-activated electronic signal or by valid card/PIN
Inside lever is always unlocked

DV
Latchbolt with key override

Latchbolt operated by:
• Outside key
• Outside lever - unless locked by internal motor drive mechanism
• Inside lever
Latchbolt deadlocked by:
• Auxiliary latch
Outside lever locked by:
• Internal motor drive mechanism operated by time-activated electronic signal or by valid card/PIN
Outside lever unlocked by:
• Internal motor drive mechanism operated by time-activated electronic signal or by valid card/PIN
Inside lever is always unlocked

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