

high security locking technology

GSA approved

three modes of operation



X-09™ & CDX-09™ High Security Locks

A low-angle, upward-looking photograph of two American flags flying on tall poles. The flags are positioned in front of a modern building with a grid of large, rectangular windows. The sky is visible through the windows, and the overall scene is brightly lit. The text is overlaid on the upper left portion of the image.

In the relatively brief time since our founding, Kaba Mas has become an international leader in electronic locking devices and systems. Technological innovation has been the fuel that has powered our rapid growth. We are committed to analyzing market needs in order to create locking systems that anticipate and defeat potential security threats.

X-09™

Meets FF-L-2740A

Because it meets the United States Government's stringent FF-L-2740A specification, the X-09 high security electromechanical lock is approved by the GSA (General Services Administration) for use on approved Class 5 and Class 6 filing cabinets and Class 5 and Class 8 Security vault doors.

The X-09 is self-powered using Kaba Mas' exclusive PowerStar™ technology (an internal self-activating power plant). This eliminates the threat of compromise of external power sources or internal batteries. Rotating the dial in either direction provides all the power necessary to enter the combination and review audit features.

The X-09 boasts a limited-view LCD display preventing detection of entry codes or dial position. Additionally, the tamper-resistant X-09 can not be "hacked" because the digital information is hidden in the processor's non-volatile memory.

Representing a giant step forward in high security locking technology, the X-09 features multiple modes of user access with audit capabilities. These user-friendly locks provide the high level of security and maintenance-free operation.

National Stock Number (NSN)

5340-01-498-2758

X-09 Combination Lock for GSA approved security containers and GSA approved vault doors.

X-09™ Features

Three Modes of Operation

Choose your level of operation. The **Single Combination Mode** allows access by dialing a six-digit combination. The **Dual Combination Mode** allows access only when two separate codes are entered within 40 seconds of one another. The **Supervisory/Subordinate Mode** allows access by a subordinate's code only after a supervisor's code has been entered.

Audit Feature

The X-09 has a full complement of auditing features, including a non-resettable record of openings and an unsuccessful attempts record (audits after 3 unsuccessful attempts) that resets once the proper access code is entered.

PowerStar™ Technology

The X-09 features our patented PowerStar™ technology which generates its own electrical energy with each rotation of the dial. This exclusive self-powered technology is highly reliable and independent of vulnerable external power sources or internal batteries.



X-09™ Specifications

HARDWARE SPECIFICATIONS

- **Power:** Internal, self-powered by PowerStar™ technology.
- Combinations: 3 modes:**
 - **Single:** 1 million combinations
 - **Dual:** 500 billion combinations
 - **Supervisor/Subordinate:** 2 million combinations
- **Direct Dial:** No need to clear before entering combination. Once you stop turning the dial, the power will shut down after 40 seconds.
- **Dead Zones:** None
- **Memory:** Non-volatile
- **LCD:** Limited View Liquid Crystal Display with indicator arrows makes dialing easy and exact.
- **Combination Changes:** (LCD indicator in change key mode). Combination changed with correct combination or serial number.
- **Random Number View:** True Scramble
- **Daylocking:** No
- **Back Dialing:** No
- **Lock Reset:** Automatic when bolt is thrown or 40 seconds after turning has stopped.
- **Manipulation:** Fail secure against high-voltage attack, robot attack, X-ray methods, magnetic, vibration, and R/F.
- **Audit:** The X-09 records all openings, and the record is non-resettable.
The X-09 records unsuccessful attempts after 3 incorrect combination attempts and resets after a correct opening.
- **Wrong Try Penalty:** 10-14 errors results in a 3 minute time out. 15 errors or greater results in a 4 minute time out. Both error count and penalty time resets with valid combination.

- **Back Cover:** Lock On Back Cover pin prevents removing the back cover without the combination.

ENVIRONMENTAL PERFORMANCE

- **Temperature:** Tested -10°F to 155°F Operational Range.
- **Salt Spray:** Operational After 72 hours of continuous exposure (per ASTM B117-90).
- **High R.P.M.:** Not operational after 4 hours in each direction @ 600R.P.M. Fails Secure.
- **Cycle Test:** Meets or exceeds FF-L-2740A specifications.
- **Humidity:** Operational after 10 days of 140°F @ 98% humidity (Operational after 10 days testing per MIL-STD-810E, Method 507.3, Procedure III, Temperature Cycling 86°F to 140°F @ 98% RH)
- **Stress:** Operational after 7 days in a stress chamber @ 194°F. Meets FF-L-2740A Specification.
- **Vibration:** MIL-STD-810
- **Shock:** MIL-STD-901
- **Electrical Discharge:** 250KV on Dial
- **Electromagnetic Pulse:** Meets FF-L-2740A specification for simulation of high altitude nuclear blast.
- **Case & Bolt Strength:** 600 pounds in two directions.

IMPORTANT NOTE:

Department of Defense and Agencies - Inquiries please contact:

Naval Facilities Engineering Service Center

Security Engineering Division

DoD Lock Program

1100 23RD Avenue

Port Hueneme, CA 93043-4370

Phone: (805) 982-1212

<https://portal.navfac.navy.mil/go/locks>



Additional Applications - CDX-09™

We've integrated the X-09 with a rim deadbolt platform to represent a unique and complete high security door lock solution while complying with most life safety requirements. Along with the X-09, the combination door lock unit is added to form the CDX-09 which allows you to have access control on any door. The CDX-09 conforms to FF-L-2890.

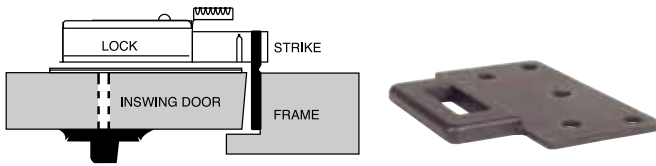
National Stock Number (NSN)

5340-01-498-2759 - CDX-09 Combination Deadbolt lock for pedestrian doors with **non drill-resistant** dial ring mounting plate.

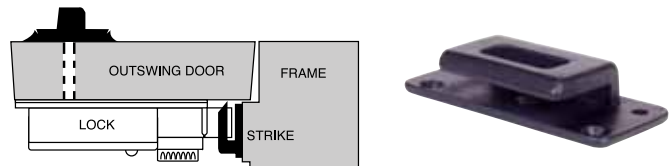
5340-01-492-2760 - CDX-09 Combination Deadbolt lock for pedestrian doors with **drill-resistant** dial ring mounting plate.



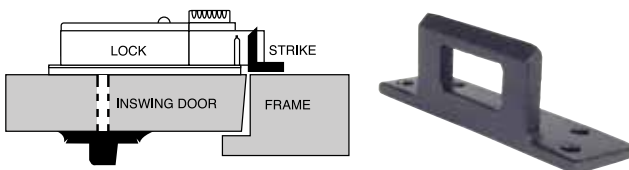
Strikes



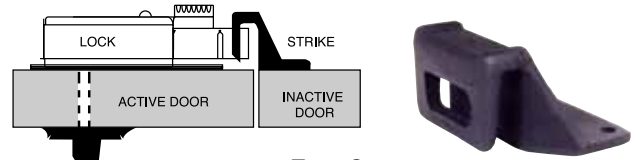
Type 1
Part# 114003



Type 2
Part# 114004



Type 3
Part# 114005



Type 9
Part# 114006

Dial Ring Mounting Plates



Drill Resistant
Part# 114014



Non Drill-Resistant
Part# 114024

CDX-09™ High Security Pedestrian Exit Device

Used in conjunction with the Kaba Mas X-09™ for high security areas • Rim Exit Device and Outside Lever Trim with Rim Cylinder • Fully integrated package including the X-09™, dead bolt and CD Unit

Increase pedestrian security by combining a CDX-09 with either a mechanical fire rated exit device or one with electronically controlled lever trim (for use with your card reader or other input device.) In either application the CDX-09 is interconnected releasing the deadbolt and the latch bolt when the touch bar is depressed.

NOTE: High security pedestrian exit device and electronically controlled trim options are not tested under FF-L-2740A or FF-L-2890 specifications.

Exit Device Specifications

- **Operation:** Depression of Rim Exit Device pushbar automatically retracts CDX-09 dead bolt to allow instant egress.
- **Handling/Size:** Supplied left or right hand reverse bevel and can be used for door opening widths from 2' 11" to 4' 0"
- **Materials:** Investment cast stainless steel chassis; stainless steel latch-bolt and strike.
- **Doors:** 1 3/4" thick wood or hollow metal.
- **Latchbolt:** 3/4" throw.
- **Exit Device Finish:** Metallized aluminum powder coat.
- **Rim Exit Device Chassis Cover Finish:** Black powder coat.
- **CDX-09 Lock Cover Finish:** Black powder coat.
- **ADA Compliant**
- **UL Labeled:** 3 hour or lesser door.

Certified in accordance with ANSI/BHMS A156.3-2001 Grade 1 compliance.

Technical Support: Available 24 hours a day, 7 days a week. Call 800-950-4744.

High Security Pedestrian Exit Device

1. The rim exit device box contains:

- Rim exit device with associated parts and mounting hardware
- Outside lever trim with rim cylinder lock and mounting hardware
- Interface hardware, covers and cover brackets with mounting hardware

2. The CDX-09 Box contains:

- High Security Pedestrian Door Lock (CDX-09)

High Security Pedestrian Exit Device - Electric Trim Version

1. The rim exit device box contains:

- Rim exit device with associated parts and mounting hardware
- Electronically controlled outside lever trim with rim cylinder lock and mounting hardware
- Interface hardware, covers and cover brackets with mounting hardware

2. The CDX-09 Box contains:

- High Security Pedestrian Door Lock (CDX-09)

3. The RDS Box contains:

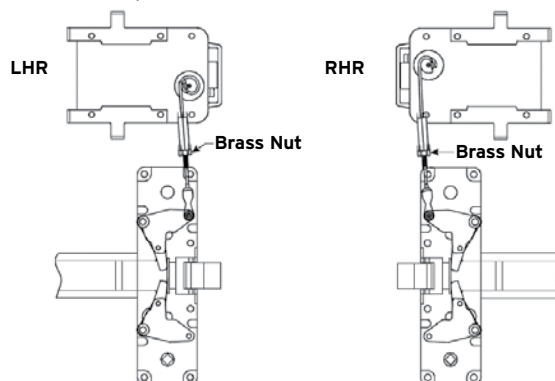
- RDS-2 Power Supply Control Module

The RDS, when energized by pressing the dry contact switch, will activate the first ELT device and one second later, will activate a second ELT device. Please note that for each RDS, two ELT devices can be controlled by one switch.

Notes:

1. Each RDS comes in a 6" x 6" x 4" NEMA rated box.
2. RDS weight is 8 lbs.
3. The RDS-2 specifications and wiring schematic can be found in the Electric Locking Trim & RDS Installation section of the HSPED installation manual.

CDX-09 Linkage Connection



OBSOLETE
Eff. 01/20/2011



Kaba Mas, part of the world-wide Kaba group, is the world's leading manufacturer and supplier of high-security electronic locking solutions. Its complete line of self-powered, battery and mechanical locks meets virtually every container lock requirement.

Kaba Mas is dedicated to satisfying end-user needs for security, control and accountability.

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