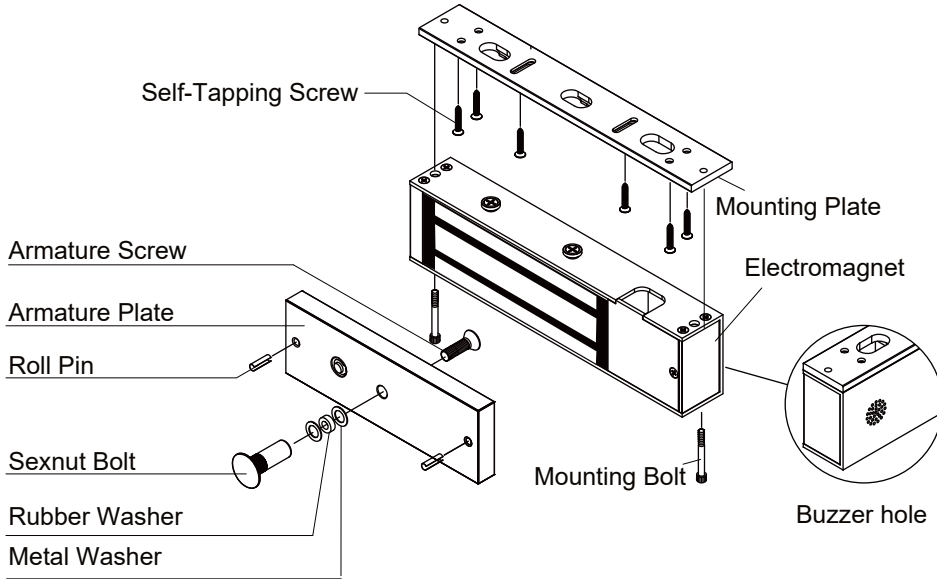


KH10025DE延遲出口磁力鎖組件的設計符合NFPA 101生命安全規範。這延遲出口鎖定系統的主要應用是安全鎖定和延遲釋放周邊和緊急出口門。KH10025DE電磁鎖是一個獨立的單元使用現有的門出口和鎖定硬件以及所有電子設備內置於磁鐵的接線盒中，便於安裝。



Electrical Ratings

Power input	12 / 24VDC +/- 10%
Current draw (Standalone operation)	500mA / 12VDC 250mA / 24VDC
Current draw (With optional slave lock)	1000mA / 12VDC 500mA / 24VDC
Output contacts	1 A / 24 VDC (Maximum)

Screw Package Components:

	3/16" x 5/8"	x 2		3/16"	x 1
	5/16" x 1 3/8"	x 1		3/16" x 1 1/4"	x 6
	5/16" x 7/8"	x 3		1/2" x 1 9/16"	x 1
	11/32" x 19/32" x 5/32"	x 1		1/4" x 1 9/16"	x 2

安裝注意事項

磁力鎖組合包含敏感電子元件，因此不能遭到掉落或破壞。尤其在乾燥的氣候或是冬季，迴路元件很容易遭到高度靜電放電破壞，所以必須小心。在正常的安裝或調整程序下，在碰觸磁力鎖組合或電線時應先放電。不遵照程序將會導致磁力所受損而且系統保固無效。

如何工作

通過按下外出推把激活延遲的出口系統。外出嘗試（按下外出推把）必須超過預設啟動延遲出口周期的時間延遲0,1,2或3秒。注意：0秒的誤差包括200毫秒的反彈延遲消除誤觸發。

快速安裝前的檢查

這個程序可讓安裝人員先替KH10025DE磁力鎖做檢查，以及在安裝前更了解磁力鎖基本運作。

移除蓋板，放置4位DIP 開關在迴路板底部上。將4個開關設定成關閉狀態。門鎖現在是設定為0.2秒警告延遲時間（需要最少持續0.2秒推外出推把），以及設定15秒延遲外出循環。將磁力鎖配線如下（並請參考產品接線圖）

1. 在磁力鎖的接線盒裡，將N.O.開關橫跨橫跨在“ FIRE” 和“ COM” 接點。
2. 確認12伏VDC的電源供應器是關閉的，而且連接(正極導線)和“ V+” 接點，並且連接(負極導線)和“ V-” 接點。
3. 若是連接N.O.單極瞬間開關至“ START” 與“ F/COM” 接點，會促動外出推把的微型開關。
4. 兩個重設方法：
 - A. 將N.C.開關和電源供應器以及磁力鎖的“ V+” 輸入端串聯。短暫的打開這個開關會造成重新設定。
 - B. 將N.O.開關橫跨“ RST” 和“ F/COM” 接點。關閉並復歸這個開關會導致重新設定。

注意: GEM Model KS750系列 強制開關，Exit Buttons 外出開關，以及Access Control System都可適用兩者方法之一。

5. 確認電源供應器是關閉的狀態。將吸附版放在磁鐵表面上確認吸附板位置正確。
6. 將電源打開(或接上電源)。磁力鎖應該會在電源打開後立刻嗶一聲，磁鐵會立刻充電(送磁力入吸附板)。綠色LED應該每秒閃一下。
7. 短暫的按壓外出推把開關(至少200毫秒然後鬆開)。警報器會開始每秒嗶一聲，然後正在閃爍的LED會成變穩定的綠色顯示顯示外出循環啟動。
8. 在15秒的嗶聲之後，這個磁鐵將會鬆開吸附板。LED燈會改變成穩定的綠色，警報器會發出持續的警報聲指示外出循環已經完成，門鎖處於開放自由外出狀態，直到重新設定為止。
9. 短暫的啟動重新設定(reset)開關。警報器會發出聲音，磁鐵會有電，綠色的LED燈會回復至每秒閃一下表示正常待命狀態。
10. 為了引發火災緊急狀況，壓住你在第一個步驟連接在“FIRE”和“F/COM”的N.O.開關。門鎖會立刻鬆開並且會發出警報。
11. 放開第一個步驟連接在“FIRE”和“F/COM”的N.O.開關。門鎖會立刻鬆開，並且會發出警報。
12. 在吸附板與磁鐵中間放置名片(靠磁鐵兩端放置，這可代表外物會影響吸力。)
13. 連接DC 電源。在3秒延遲之後，門鎖警報會快速發出4秒重複嗶聲，與閃爍的LED燈同步。
14. 移除所有連接至門鎖的接線接點。
15. 安裝前檢查完成。

安裝方法

1. 注意配合不同門框安裝必要的填充板或是方形支架。門鎖必須安裝在內部並且安全的裝在向外開的門上在絞鍊對面，並且清除任何硬件。門必須正確對準，免除附著任何機械結構，並且應該關門時緊靠門檔。
2. 將安裝卡紙折疊對準點線，並將其放置在依卡紙說明的門上。
3. 依卡紙說明在門上鑽5/16" (8mm)和1/4" (6mm)的孔。
4. 開門而且在門扇(header)上鑽1/2" (13mm)接線孔。
5. 只有在安裝板中央區間位置上鑽3/16" (5mm)的孔並且將安裝板裝在門框(header)上。轉緊螺絲至安裝板至仍然可以移動的程度。藉滑動兩個附在磁鐵上的螺絲至區間位置，將磁鐵附在安裝板上。
6. 用皿頭螺絲將吸附板鎖附在門上。將橡膠墊圈放在兩個金屬墊圈中間，將它們放置在吸附板後面螺絲上。不要太過鎖緊皿頭螺絲。
7. 將磁鐵在吸附板上滑動。把磁鐵拿開，在安裝板上鎖緊兩個螺絲，也將其他螺絲安裝在安裝板或門框上。將磁鐵穩固的附在安裝板上並且將磁鐵接上電線。

安裝外出推把

GEM Model PBA-860 外出推把與電源保護管一起使用。所有接線必須遵守地方規範被保護或是隱藏起來。依據製造商的指示安裝和接線外出推把。從推把的微動開關至中空門框的線路，使用保護性有彈性的電源保護管。

磁力鎖接線

KH10025DE的基本單門安裝

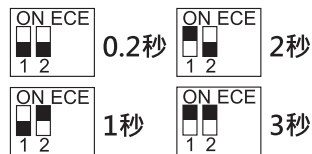
1. 確認沒有電線暴露，而且遵守地方規範要求。
2. 所有接線至接線盒GEM KH10025DE的接點必須和在門框上1/2” 的鑽孔連接。
3. 磁鐵是低電壓的裝置，需要12伏vdc電源供應和消耗功率至少1安培。使用18awg美規線徑。電源線不要超過75英尺。注意電源供應器正負極，並連接至” V+” 和” V-” 接點。
4. 直接連接FACP或其他火災緊急系統的N.C或N.O接點(兩條線)至” FIRE” 和” F/COM” 兩個接點。電源線不應超過1500英尺。使用至少18 AWG 美規線經。
5. 直接連接白線，從外出推把到” START” 接點，和連黑線，從外出推把到” F/COM” 接點。
6. 系統重設可以兩種方式進行：
 - a. 連接NC開關與” V+與12VDC 電源接點串聯。
 - b. 連接NO開關與” RST” 接點和” F/COM” 接點。啟動瞬間開關會啟動重新設定(reset)。

磁力鎖接線

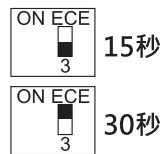
KH10025DE也為設計來容納 OPTIONAL 的控制和監控裝置如下

- A. Form A繼電器乾接點用來遠端監控門鎖狀態。當因為上鎖狀態被破壞、外出循環啟動、或是火災警報而導致警報響起繼電器輸出接點” R/COM” 和” N.O” 和” N.C” 將會切換。這些接點可監控在警報器或其它在遠端控制面板的裝置。接點消耗功率 1 安培，30VDC。
- B. 密碼控制器或是NO瞬時開關提供手動控制自由外出(利用BYPASS功能)。跨接在” PASS” 和” F/COM” 的接觸開關(contact closure)會在迴路閉合的持續時間中鬆開門鎖。在Bypass期間，LED燈會轉成紅色，並會在BYPASS完成時轉回綠色。當BYPASS完成時，門鎖也會發出嗶嗶聲。
- C. 就2門(雙門)安裝上，安裝GEM型號KH500系列鎖在相鄰門上並連接接點” V+” 和” V-” 。附屬門鎖(SLAVE LOCK)會與主要磁力鎖的運作相同。
- D. 用接線盒裡的4位DIP SWITCH設定延遲時間。

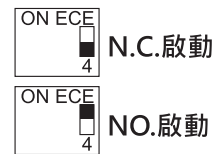
推把持續按壓
時間設定



延遲開門時間設定
(秒數後解鎖)



緊急狀態訊號輸入
N.C / N.O 設定

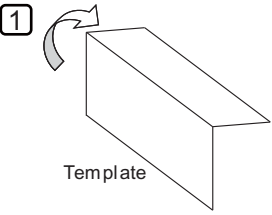


疑難排除

當警報聲響起，注意警報聲模式和其解決方法：

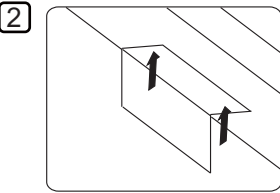
- a. 嗶一聲表示外出推把啟動外出倒數計時循環。檢查推把的接線狀況，並確定開關為NO狀態。
- b. 穩定的每兩秒開-關模式表示火災警示線(fire leads)沒接到在FACP控制板的NC接點。移除電源並檢查接線。
- c. 4個快速嗶聲表示上鎖感應受損。原因有可能是連接磁力鎖為低電壓或是吸附板和磁鐵間位置沒有對準或是吸附板和磁鐵間有外物介入。

磁力鎖向外開安裝

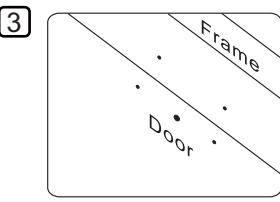
1  **Template**

Find the paper installation template included with the magnet (you will need this).

Fold it on the dotted line.

2 

Place the folded template in the proper position on the door/jamb and mark the holes you will cut for your magnet and armature plate. (Using tape will help)

3 

Drill the holes according to the marks you made.

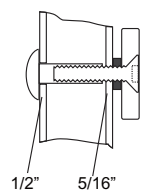
(Check Twice! Drill Once!)

4 **Armature Plate**

Install the armature plate as shown in the drawing to the left.

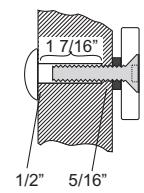
The actual dimensions of the holes are illustrated below.

Hollow Metal Door



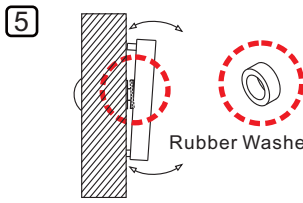
1/2" 5/16"

Solid Door

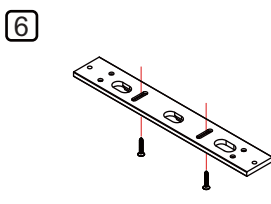


1 7/16" 5/16"

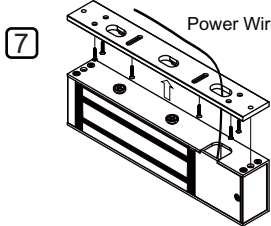
Drill a 5/16" (8mm) hole through the door for the armature side. For the sexnut side (secure side), enlarge the hole to 1/2" (12.7mm) for the width of the sexnut. On wood doors the depth of the sexnut is 1 7/16" (36mm).

5  **Rubber Washer**

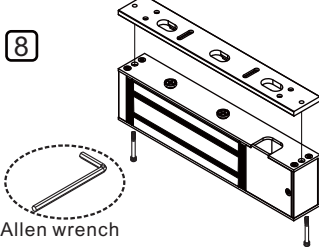
The rubber washer helps the armature plate to pivot. As it should NOT be tightened all the way to door.

6 

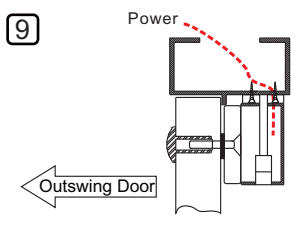
Attach the mounting plate to the jamb and tighten the mounting screws.

7  **Power Wires**

Pass the wiring through the mounting plate and into the wiring hole at the top of the magnet and into the PCB area.

8  **Allen wrench**


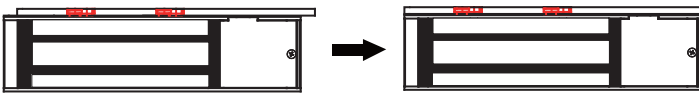
Attach the magnet to the mounting plate. Use the Allen wrench and thru-bolts to tighten the magnet to the mounting plate.

9  **Power**
Outswing Door

Connect the power and test the holding force. Add washers if there is still a gap between the magnet and armature plate.

Key Hole 應用

Attaching Magnet to Mounting Plate

1. Align the two slotted holes and attach the magnet to the mounting plate.

2. Slide the magnet onto the mounting plate.
 Keyhole Mounting "slides Left to Right"

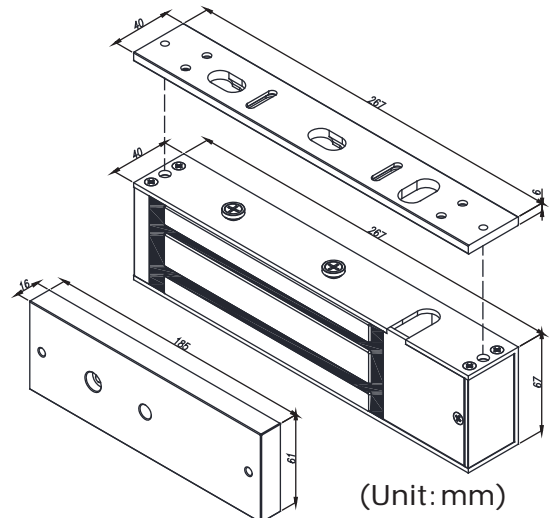
逃生門應用

KH10025DE延遲出口磁力鎖，內建一組95分貝的蜂鳴器，應用在大賣場、醫院等公共場所的安全逃生門上，管制人員進入。

當持續按壓外出推把0~3秒時(可調)，蜂鳴器立即響起，並通知監控中心該門有人員進出，經過延遲開門時間15秒後(另可調為30秒)，才會解鎖開門，RESET後一切恢復正常。

也可從遠端RESET接點可強制關門，使可疑份子無法通行，安全人員直接至事件現場處理。

具有緊急優先功能(FIRE)，當緊急狀況發生(如:火災)，觸發緊急訊號接點，電鎖立即斷電，即可直接通行，不必經過延遲開門時間，讓人員可立即逃生。



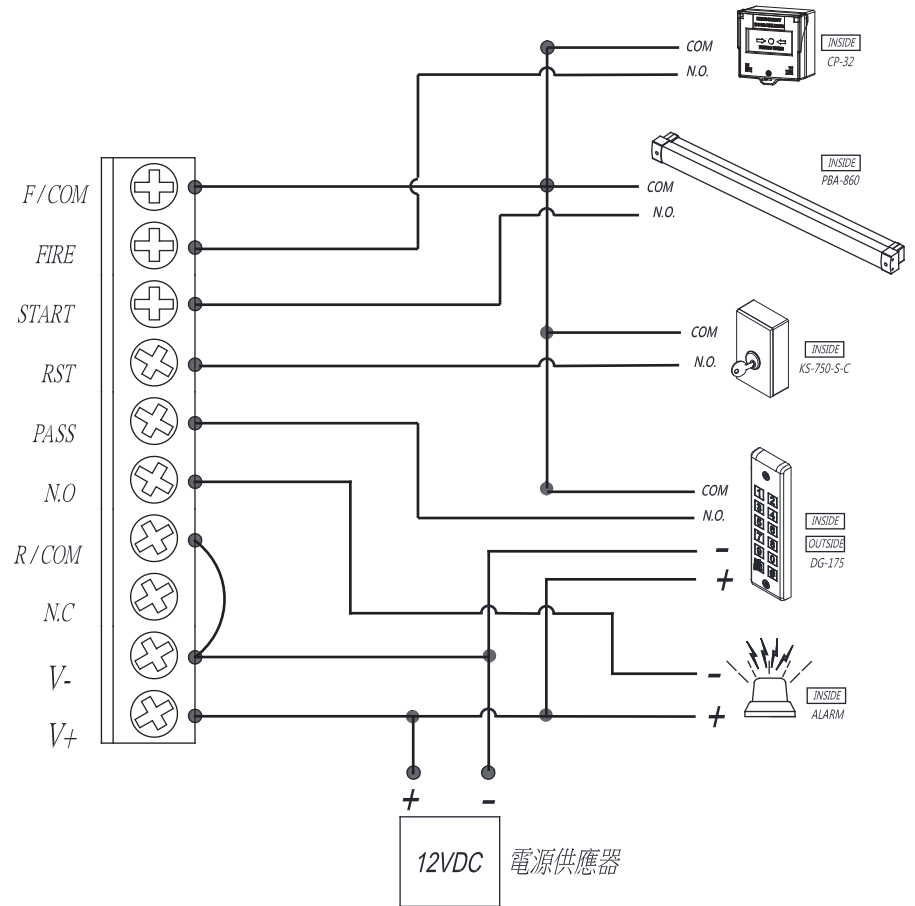
使用說明

1. PCB上指撥開關1號和2號位置，可設定持續按壓外出推把的時間(0.2秒、1秒、2秒、3秒)，之後內建蜂鳴器即響起，此時電鎖仍為上鎖狀態。
2. 按壓外出推把後，內建蜂鳴器立即響起，並延遲15秒或30秒時間後電鎖才會解鎖。此段時間稱之為延遲開門時間，在PCB上指撥開關3號位置設定。
3. 計時延遲開門時間內，內建蜂鳴器會一秒響一聲。延遲時間(15或30秒)過後，則持續發出聲響，直到RESET受到強制開關重新設定，警報聲才會停止。
注意: 如是二段式強制開關則需切換ON與OFF完整行程一次，才完成解除警報。如已在延遲開門的警報計時中，仍可藉由觸發RESET接點，重置設定以解除延遲時間警報計時。
4. 緊急狀況發生時，持續觸發CUT IN緊急訊號接點(例: 緊急開關壓扣)，蜂鳴器響起，電鎖立即斷電，讓人員迅速逃生。
5. 可加裝感應讀卡機或密碼控制器...等，控制器N.O./COM.接點連接觸發PASS接點，可使合法人員出入通道。
6. 為求安全，建議搭配UL安規認證的不斷電系統的電源供應器，以防止停電時門禁管制空窗期。

逃生門接線圖

控制電路板說明

端子接點	說明
F/COM	功能點(共地G)
FIRE	緊急訊號輸入接點(例: 緊急壓扣產品)
START	開關訊號輸入接點, 觸發PCB啟動時間
RST	重置輸入開關接點(例: 強制開關產品)
PASS	觸發控制器輸入接點, 可合法出入, 不必經過延遲開門時間 (例: 感應讀卡機或密碼控制器產品)
R/COM N.O. N.C.	外接警報蜂鳴器輸出乾接點(RELAY) 承受功率 1A/24VDC, 0.5A/125VAC
V-	電源輸入12/24 VDC (自動切換)
V+	



故障排除

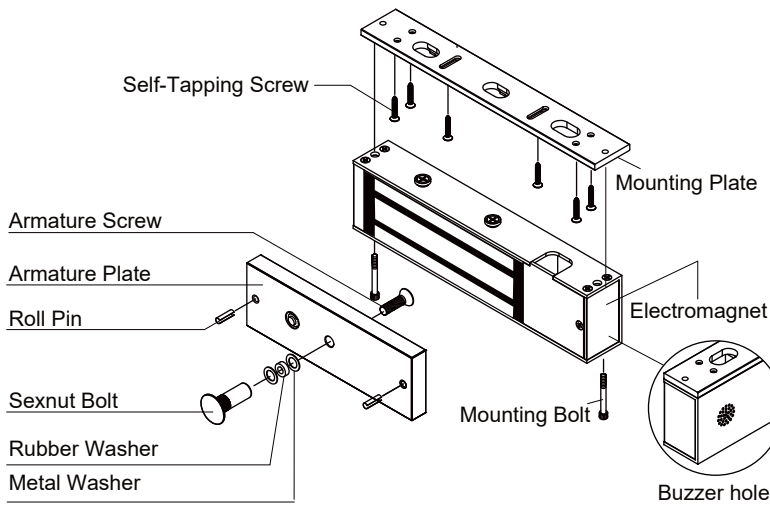
If the alarm sounds, note the sound pattern and troubleshoot as follows:

1. One beep per second indicates that the push bar is activating the egress count down cycle. Check the bars wiring and make sure the switch is wired for normally open operation.
2. Steady on-off pattern (2 per second) indicates that the fire leads are not connected to the normally closed contacts in the FACP. Remove power and check wiring.
3. Four quick beeps indicate a bond sensing violation. Causes can be low voltage to the lock or an improperly aligned armature plate or foreign matter between magnet and armature plate.









KH10025DE Delayed Egress Electromagnetic Lock (Key Hole Mounting) Installation Instructions

Overview

The KH10025DE Delayed Egress Electromagnetic Lock with Key Hole Mounting is designed to comply with the NFPA 101 Life Safety Code. This delayed egress locking system's principal application is for secure locking and delayed release of perimeter and emergency exit doors. The KH10025DE is a self-contained, standalone unit that uses existing door exit and latching hardware, and all electronics are built into the magnet's wiring compartment for ease of installation.



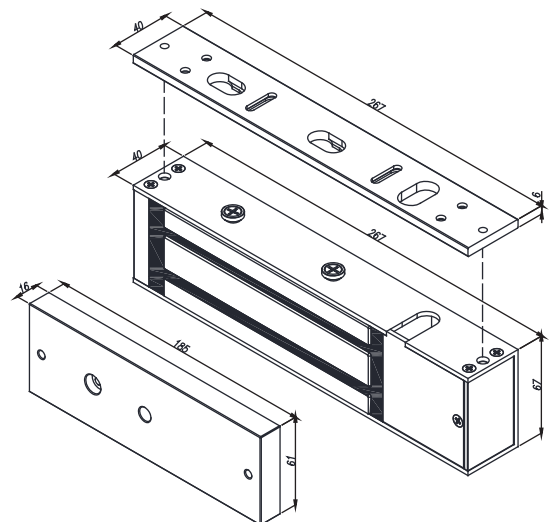
Screw Package Components:

Roll Pin	Hexagon Key (Allen Wrench)	Rubber Washer
		
3/16" x 5/8" x 2	3/16" x 1	11/32" x 19/32" x 5/32" x 1
Allen Flat Head Screw	Philips Flat Head Screw	Thru-Bolt (Hex Screw)
		
5/16" x 1 3/8" x 1	3/16" x 1 1/4" x 6	1/4" x 1 9/16" x 2
Metal Washer	Sexnut Bolt	
		
5/16" x 7/8" x 3	1/2" x 1 9/16" x 1	

Specifications

Power input	12 / 24VDC +/- 10%
Current draw (Standalone operation)	500mA / 12VDC 250mA / 24VDC
Current draw (With optional slave lock)	1000mA / 12VDC 500mA / 24VDC
Output Contacts	1A / 24VDC (Maximum)
Holding Force	1200 lbs
Finish	Aluminum anodized (US28)

Dimensions



(Unit:mm)

This procedure allows the installer to perform a quick bench check of the KH10025DE lock and to become familiar with the lock's basic operation prior to installation.

Test Set-up

Remove the cover plate and locate the 4-position DIP-switch on the bottom circuit board. Set all 4 switches to OFF. The lock is now set for 0.2 seconds nuisance delay time (which requires a 0.2 seconds minimum bar press) and is set for 15 seconds delayed egress cycle. Proceed to wire the magnetic lock as follows:

1. In the lock's wiring compartment, locate the input terminal block on the circuit board and temporarily place a jumper across "FIRE" and "F/COM".
2. Ensure that the 12 VDC power supply is off and connect to positive and negative terminals.
3. Connect a normally open single pole momentary switch to the "START" and "F/COM" terminals in the lock's wiring compartment. This simulated the exit bar's micro switch.

Note: Make sure the power supply is still off; place the armature (strike) plate on the magnet face and ensure that the plate is aligned properly.

Start-up Test

Turn on (or plug in) the power. The lock should beep once on power-up. The green LED should blink once per second. If any alarm sounds, the lock may be defective or the wiring is incorrect.

Reset Test

Two reset methods can be used:

1. Connect a normally closed switch in series with the power supply and the lock's "V+" input terminal. Momentarily opening the switch will provide a reset.
2. Place a normally open switch across "RST" and "F/COM" terminals. Momentarily closing the switch will provide a reset.

Egress Test

1. Momentarily depress the exit bar switch (at least 200 msec and then release) to simulate an egress attempt. The sounder will start beeping once per second and the blinking LED will change to solid green to indicate an egress cycle has been initiated.
2. After 15 beeps the magnet will release the armature plate. The LED will change to solid RED and the sounder will give a continuous alarm to indicate that the egress cycle is complete and that the lock will remain in the free egress alarm state until it is reset.
3. Momentarily activate the reset switch. The sounder will beep, the magnet will energize and the green LED will return to blinking once per second, indicating normal armed operation.

Fire Emergency Test

1. To simulate a fire emergency, remove the jumper you installed in Test Set-up between the "FIRE" and "F/COM" terminals. The lock will release immediately and will sound an on-off 2 per second pattern.

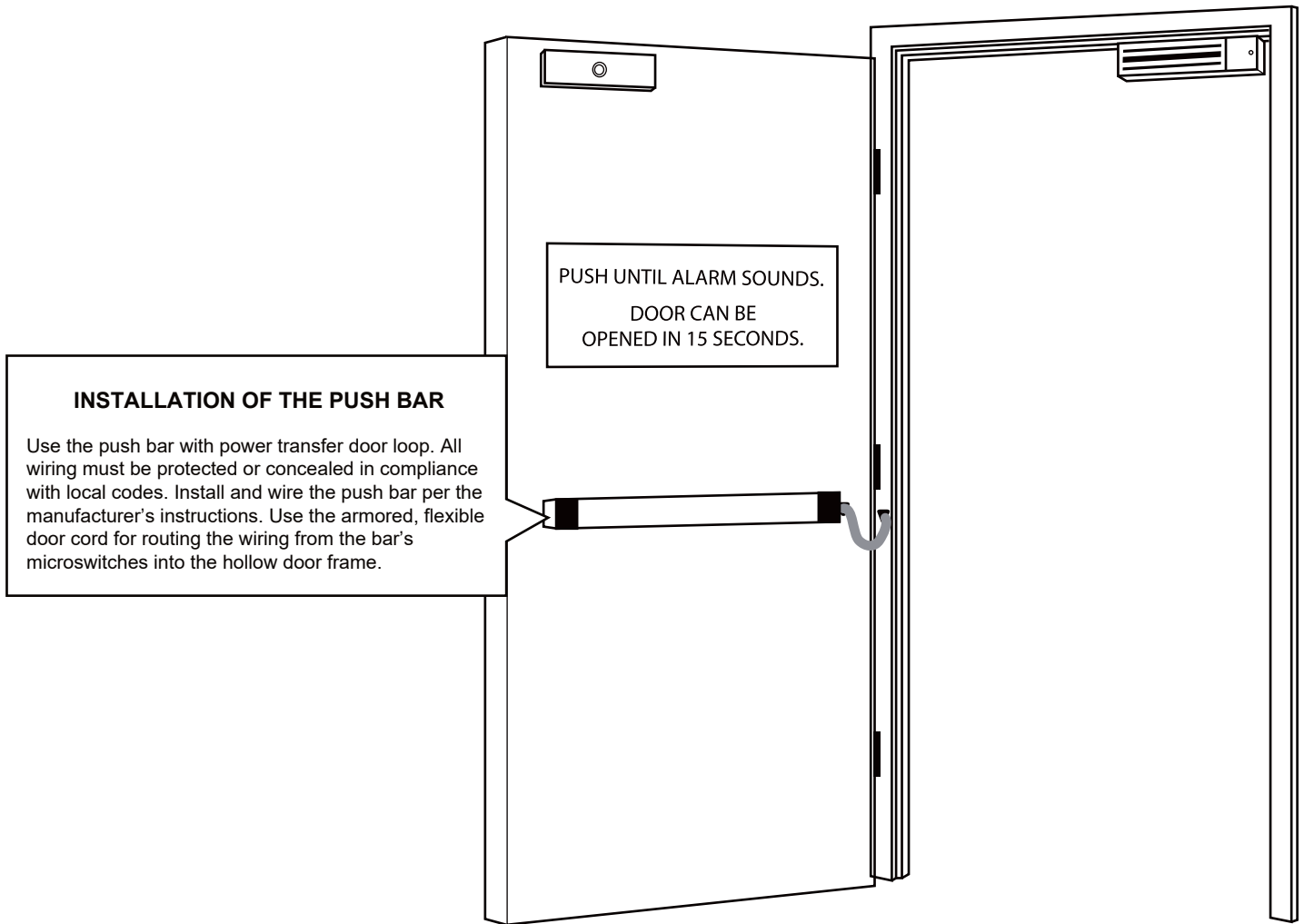
Bond Test

1. Place a business card at each end of the magnet between armature plate and magnet.
2. Apply DC power. After a 3 second delay, the bond alarm will sound a repeating pattern of 4 quick beeps, synchronous with the flashing LED.

How it Works

The delayed egress system is activated by pushing on the exit push bar. The exit attempt (pushing on the exit bar) must exceed a pre-set nuisance delay of 0, 1, 2 or 3 seconds to start the delayed egress cycle. Note: the 0 second nuisance includes a 200 millisecond de-bounce delay to eliminate false triggering.

When the nuisance time is exceeded after applying a continuous pressure of 15 pounds or greater to the exit bar, an irreversible 15 or 30 second egress cycle begins. During this egress cycle, a piezo alarm beeps once for each second of the count-down. When the magnetic lock de-energizes to release the door for free egress after the delayed egress cycle, the piezo alarm sounds continuously and the door remains unlocked until reset.

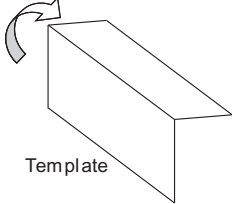


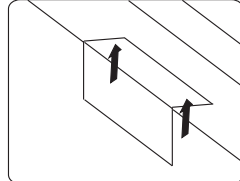
*Handling Caution:

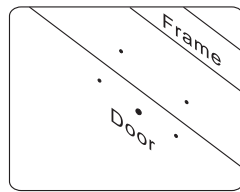
The KH10025 contains sensitive electronic components and therefore must not be dropped or abused. The circuit components are also subject to damage from high static electricity discharges and must be handled with care, especially in dry climates and in winter months. As a normal procedure during installation and adjustments, installers should always discharge themselves through a good earth before touching the lock assembly or its wires. Failure to comply with recommended procedures may result in damage to the lock and could void system warranty.

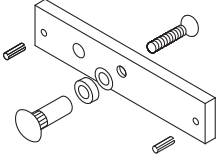
Magnetic Lock Installation for Outswing Doors

Note what type door frame header is in place and install filler plate or angle bracket as necessary. The lock must be installed on the interior, secure side of an outward swinging door, opposite the hinges and clear of any closing hardware. The door must be correctly aligned, free of mechanical binding and should close firmly against the door stop.

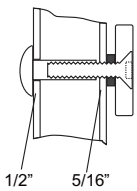
1  Find the paper installation template included with the magnet (you will need this).
Fold it on the dotted line.

2  Place the folded template in the proper position on the door/jamb and mark the holes you will cut for your magnet and armature plate. (Using tape will help)

3  Drill the holes according to the marks you made.
(Check Twice! Drill Once!)

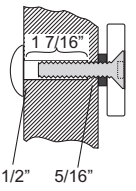
4 **Armature Plate**
 Install the armature plate as shown in the drawing to the left.
The actual dimensions of the holes are illustrated below.

Hollow Metal Door



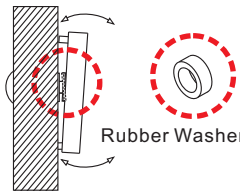
1/2" 5/16"

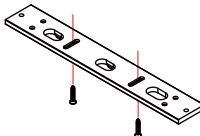
Solid Door

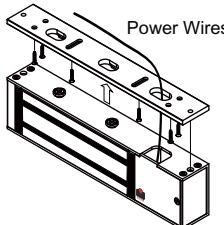


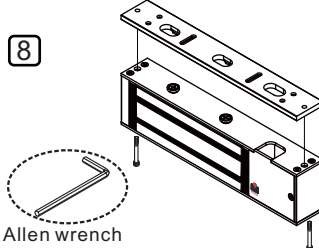
1 7/16" 5/16"

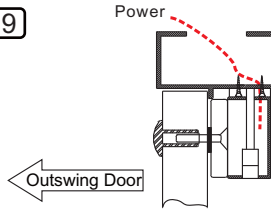
Drill a 5/16" (8mm) hole through the door for the armature side.
For the sexnut side (secure side), enlarge the hole to 1/2" (12.7mm) for the width of the sexnut.
On wood doors the depth of the sexnut is 1 7/16" (36mm).

5  The rubber washer helps the armature plate to pivot. As it should NOT be tightened all the way to door.


6  Attach the mounting plate to the jamb and tighten the mounting screws.

7  Pass the wiring through the mounting plate and into the wiring hole at the top of the magnet and into the PCB area.

8  Attach the magnet to the mounting plate. Use the Allen wrench and thru-bolts to tighten the magnet to the mounting plate.

9  Connect the power and test the holding force. Add washers if there is still a gap between the magnet and armature plate.

Attaching Magnet to Mounting Plate



1. Align the two slotted holes and attach the magnet to the mounting plate.

2. Slide the magnet onto the mounting plate.
➔ Keyhole Mounting "slides Left to Right"

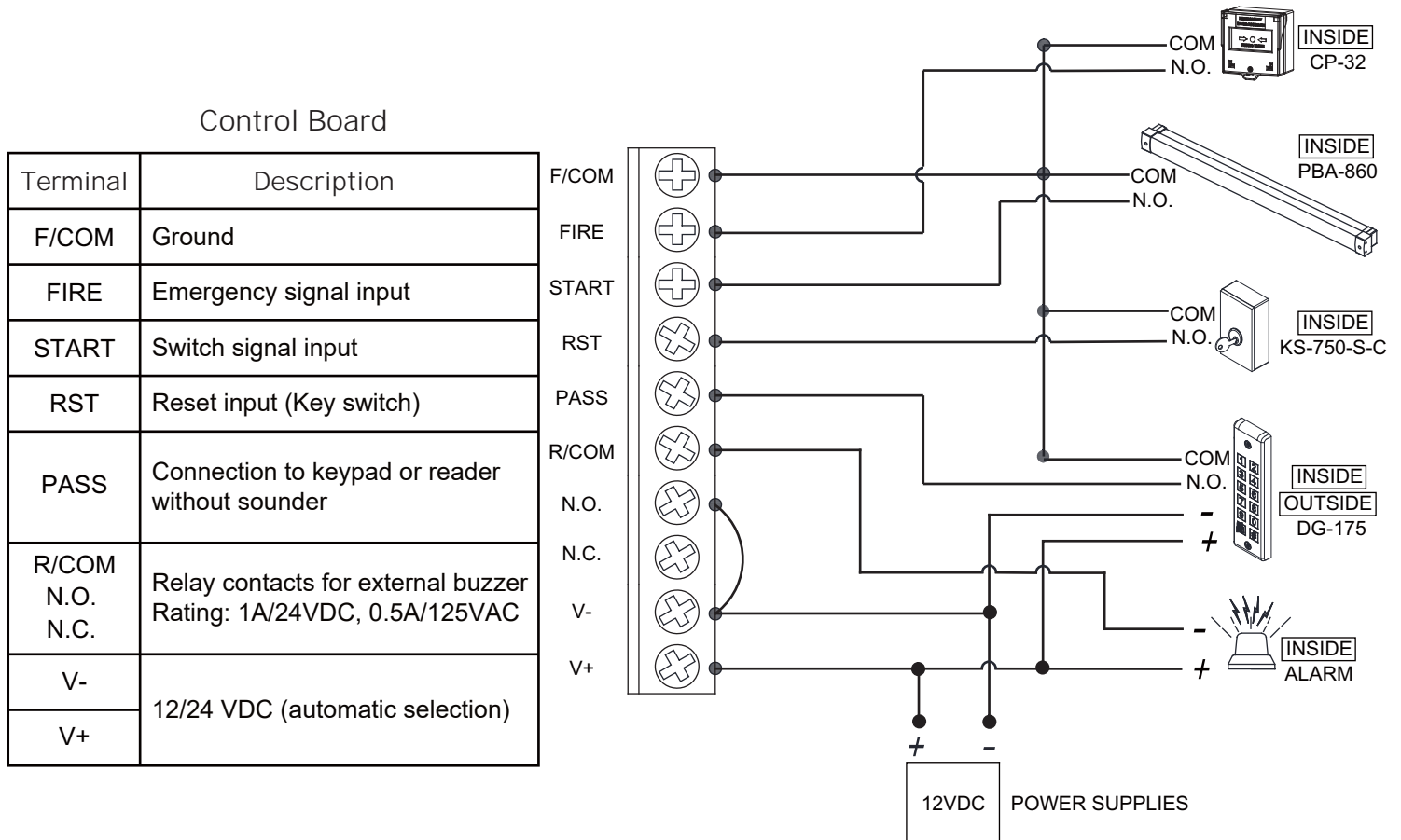
Wiring KH10052DE Electromagnetic Lock

Single Door Installation

- All wiring must be fed through the 1/2" access hole previously drilled into the header.
- The magnet is a low voltage device (NEC class 2) and can be powered by a 12 Volt DC power supply rated at 1.0 amps or greater. Use 18 AWG gauge wire. The power wire run should not exceed 75 feet. Observe polarity and connect the DC power supply.
- Directly connect two leads from the normally closed dry contacts in the supervised Fire Alarm Control Panel (FACP) or other fire emergency system to the "FIRE" and "F/COM" terminals. Wire runs should not exceed 1,500 feet. Use a minimum of 18 AWG gauge wire.
- Directly connect the WHITE wire from the push bar to the "START" terminal and the BLACK wire from the push bar to the "F/COM" terminal.
- Reset of the system can be done in two ways:
 - connect a normally closed Form A contact switching device in series with the plus 12 volt DC power connection to terminal "+12"
 - connect a normally open Form A contact switching device to terminals "RST" and "F/COM". Actuation of the momentary switch will result in a reset.

Connecting Optional Control and Remote Monitoring Devices

- Form A dry relay contacts are provided for remote monitoring of the locking status. Whenever an alarm signal occurs due to a bonding violation, egress cycle or fire emergency, the output relay contacts across "R/COM" "N.O." and "N.C." will change status. Contacts are rated 1 amp at 30 VDC.
- A remote timer or momentary switch with normally open contacts can be installed to provide a manually controlled bypass for free egress. A contact closure across "PASS" and "F/COM" will release the lock for the duration of the maintained closure. During bypass, the LED will switch to red and will return to green when bypass is complete. The lock will also beep when the bypass is completed.
- For 2-door (double door) operation, install a KH10025DE lock on the adjacent door and connect it to terminals "V+" and "V-". This slave lock will follow the operation of the master lock.

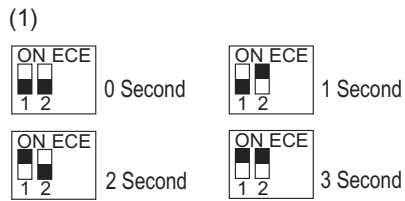


Nuisance and Delayed Egress Cycle

The KH10025DE can be set for nuisance delays of 0, 1, 2, or 3 seconds and for delayed egress cycles of 15 or 30 seconds via an internal DIP switch.

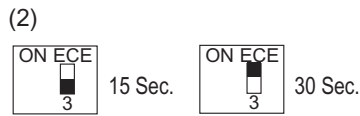
Nuisance Delay Setting

Setting of the Depressed Time of Micro Switch Bar
Dip Switch 1 & 2



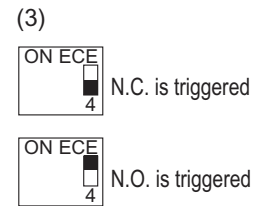
Delay Egress Setting

Dip Switch #3



Emergency Signal Input (N.C. / N.O.)

Dip Switch 4



Operation Notes:

1. The nuisance delay time can be set to 0 sec, 1 sec, 2 sec, or 3 sec before triggering the piezo alarm when the door remains locked. Set up the time by moving dip switch 1 & 2. Note: The 0 second nuisance does not include the 200 millisecond de-bounce delay - it was added to eliminate false triggering. The actual delay is 0.2 seconds.
2. When the micro switch bar is pressed, the delay egress count-down begins and the piezo alarm will go off (based on nuisance delay settings). Adjust dip switch #3 to set delay egress to 15 or 30 seconds for locking device to release. Verify with your AHJ (Authority Having Jurisdiction) as to which time you must follow.
3. When the emergency signal input (CUT IN) is triggered under emergency circumstances, the magnetic lock on a door will be released to exit immediately. *Verify if you need this to go into NO or NC Status for Emergency and ensure it is in correct position.

The alarm beeps every single second before the delay egress ends. After the ending of delay egress, the piezo continuously sounds until a RESET is triggered by key switch or other mode of reset. *The reset function can be used during the egress delay.

The bypass function can be used with access control system to exit the door without putting the KH10025DE into alarm, into alarm, by using the PASS input on the PC Board.

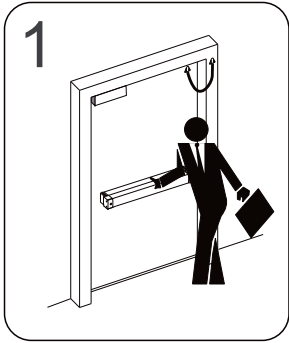
Trouble Shooting

If the alarm sounds, note the sound pattern and troubleshoot as follows:

- a. One beep per second indicates that the push bar is activating the egress count down cycle. Check the bar's wiring and make sure the switch is wired for normally open operation.
- b. Steady on-off pattern (2 per second) indicates that the fire leads are not connected to the normally closed contacts in the FACP. Remove power and check wiring.
- c. Four quick beeps indicate a bond sensing violation. Causes can be low voltage to the lock or an improperly aligned armature plate or foreign matter between magnet and armature plate.

System Application 1: Delayed Egress (Standard Operation)

Press Down Push Bar to Acticate DE (delayed egress) function



Delayed egress function included for authorized access control.

Alarm Activates



When push bar is depressed, the built-in buzzer immediately sounds to alert the security personnel.

After Egress Delay



After egress delay of 15 or 30 seconds, the lock releases. Security personnel respond to the emergency event during the delayed egress time period.

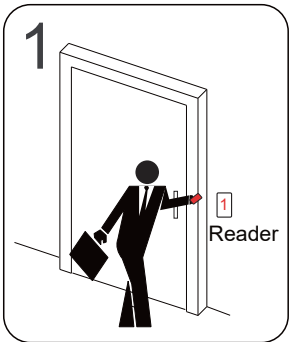
Reset to Normal Operation



Reset the system using key switch if no emergencies occur.

System Application 2: Authorized Access

Use Access Control Devices



Proximity readers or keypads are installed on both sides of door.

Authorized Personnel Entry



Authorized personnel use a proximity card to access.

When Authorized Personnel Exit



Personnel exit with a proximity card.

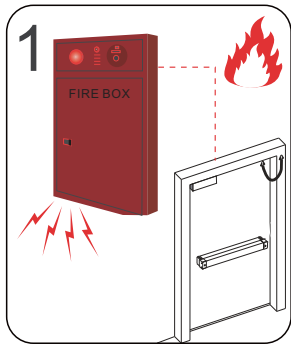
Exit without Delay



Exit without delay egress cycle.

System Application 3: Emergency Access

Fire Panel Interface



Fire panel connects to the emergency signal input of the exit bar.

Notify Emergency



When emergency occurs, built-in buzzer immediately sounds to notify personnel.

Lock Releases Immediately



Lock releases immediately without delay time, allowing free egress.

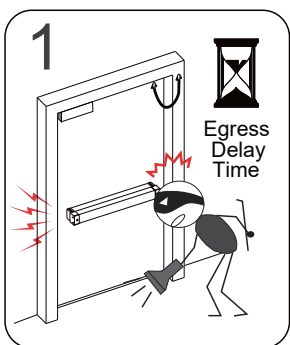
Return to Normal Operation



After emergency is removed, the alarm turns off, the lock relocks and the system is back to normal operation.

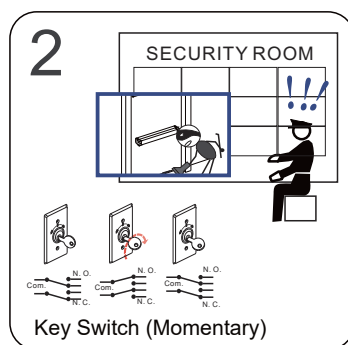
System Application 4: Security Control

Alarm Sounds



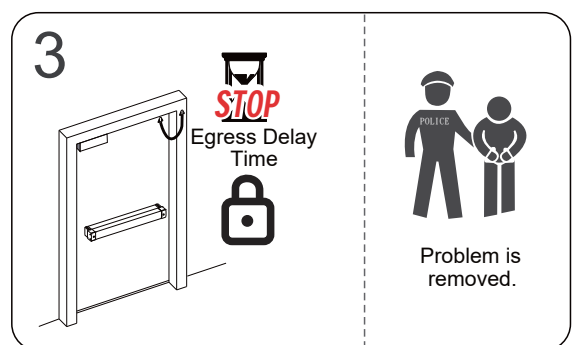
when unauthorized personnel attempt to exit, alarm sounds when the bar is depressed.

Key Switch Triggers



The security room remotely triggers the reset input of the exit bar using a key switch and notifies the security personnel.

Delayed Egress Time Terminates



Triggering the reset input of the exit bar terminates egress delay time and keeps the door locked.

Note: If using a maintained key switch, deactivating the alarm by turning the key to On and Off position once.