

CX-91S TDS Series

Magnetic Locks

INSTALLATION INSTRUCTIONS



UL 1034 / UL 294
Standard for
Burglary-Resistant
Electric Locking
Mechanisms



ULC S533-15
Standard for
Access and Egress

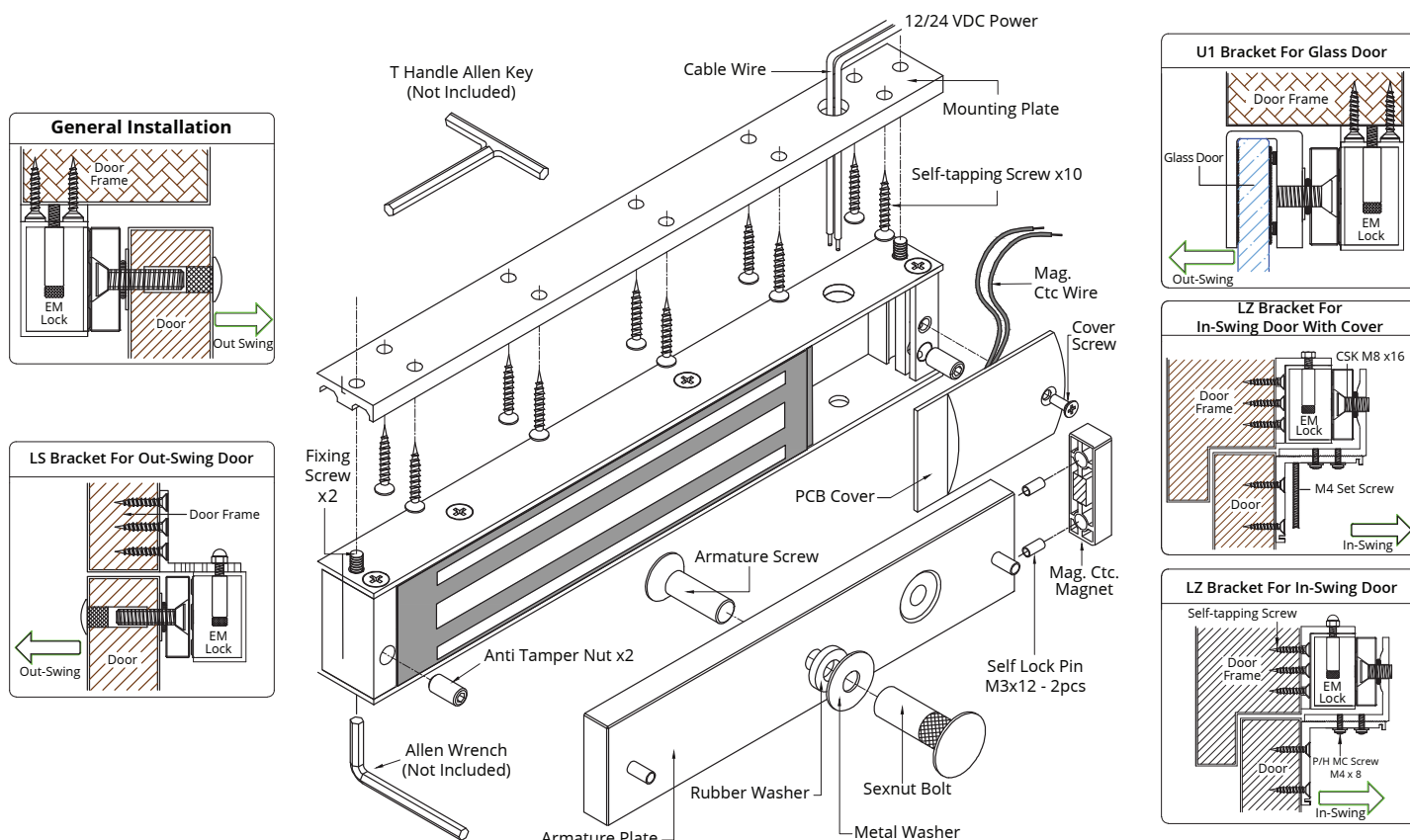
1. SPECIFICATIONS

	CX-91S-06-TDS	CX-91S-12-TDS
Static Strength	600 lbs. (Factory Tested) ** 500 lbs. (UL Verified)	1200 lbs. (Factory Tested) ** 1000 lbs. (UL Verified)
Dynamic Strength	50 ft-lb	70 ft-lb
Voltage Input	12/24V DC	12/24V DC
Current Draw	510mA/285mA	500mA/265mA
Dimensions (Body)	9-7/8"W x 2"H x 1"D (250mm x 50mm x 25mm)	10-1/2"W x 2-5/8"H x 1-1/2"D (266mm x 67mm x 39mm)
Dimensions (Armature Plate)	7-5/32"W x 1-3/4"H x 15/32"D (182mm x 44mm x 12mm)	7-9/32"W x 2-13/32"H x 5/8"D (185mm x 61mm x 16.5mm)
Endurance	250 000	250 000

Performance Levels

- Destructive Attack = Level I
 - Line Security = Level I
 - Standby Power = Level I
 - Endurance = Level IV
- (Relay Source #2 and #3)

2. BASIC INSTALLATION CONCEPT & ACCESSORIES (FIGURE 1)



CX-91S TDS Series Magnetic Locks

INSTALLATION INSTRUCTIONS

3. INSTALLATION

1. Drill the armature plate holes in the door using the sticker template provided.
2. Attach the armature plate to the door with the hardware provided as per Figure 2.3.
3. With the door closed, mark the door frame at the edge of the armature in order to properly align the electromagnet to the armature.
4. Attach the mounting plate to the door frame using the self-tapping screws provided.
Align the mounting plate with the mark from Step 3.
5. Insert the wires through the hole in the mounting plate and into the electromagnet unit. Attach the electromagnet unit to the mounting plate with the Allen head fixing screw.
6. Screw in the anti-tamper nuts to prevent unauthorized access and make sure to fully tighten the fixing screw with proper tool. A "T" Handle Allen Key.
7. The electromagnetic lock must be installed in accordance with the following :
 - Life Safety Code ANSI / NFPA 101.
 - Local Authority having Jurisdiction.
 - Manufacturer's installation instructions provided with each unit.
 - The power supply units must be mounted inside the secured or protected area.
8. Typical wiring method shall be in accordance with CSA C22.1, Canadian Electrical Code, Part I, Safety Standard for Electrical Installations, Section 32.

Note:

Install in indoor dry location.

Use caution when changing factory default setting.

It is recommended to apply a light coat of silicon lubricant to the mating surface on a monthly basis to prevent rust.

Manufacturer's Instructions provided in each unit.

NOTICE:

All models are recognized to:
UL 294 and ULC S533-15 : Standard for Access & Egress.

Models CX-91S-06 & CX-91S-12 are listed to:
UL 1034, Standard for Burglary-Resistant Electric Locking Mechanism.

UL 294, Access Control System Units

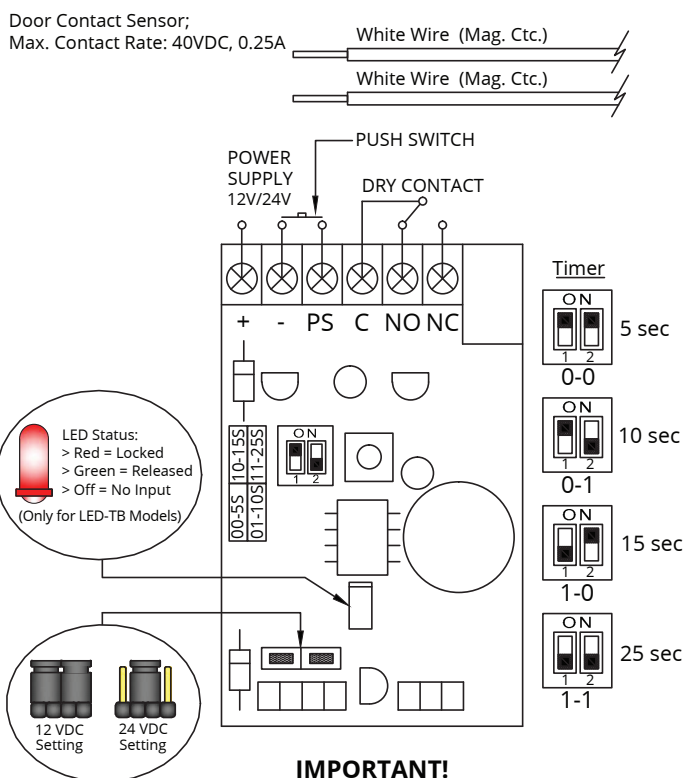
** Value not verified by UL.

Remark:

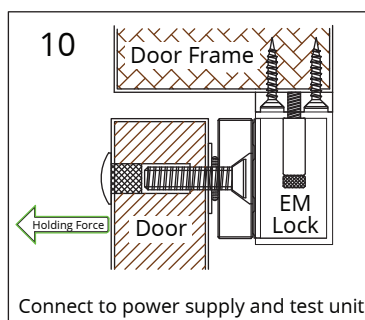
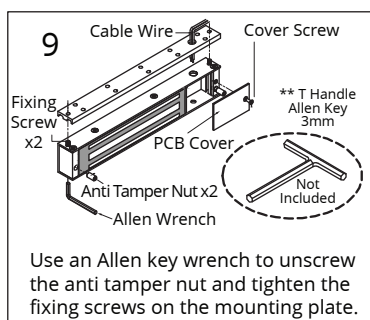
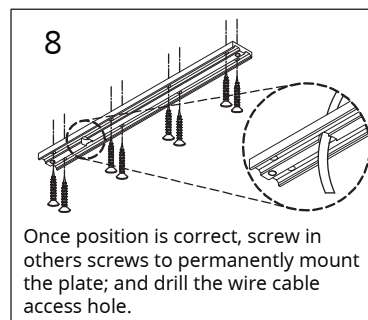
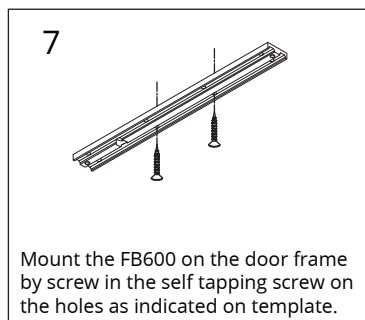
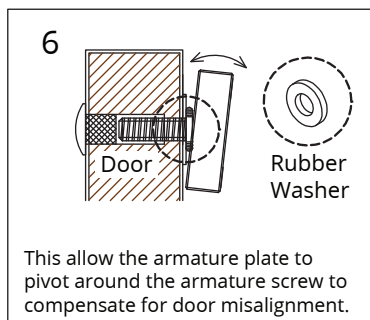
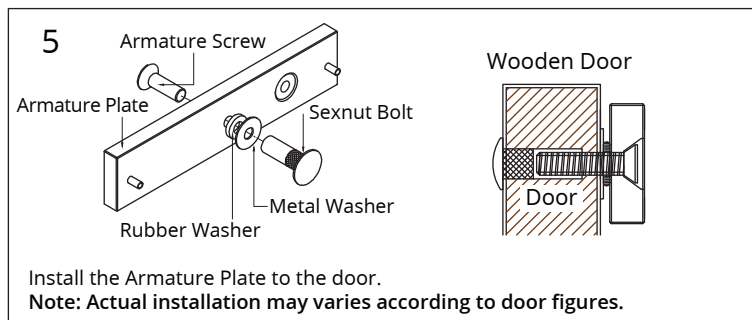
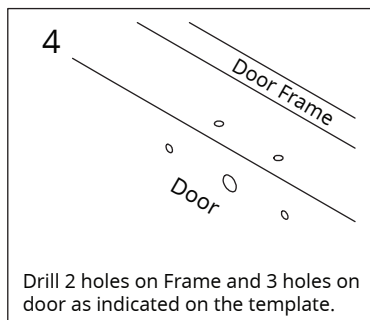
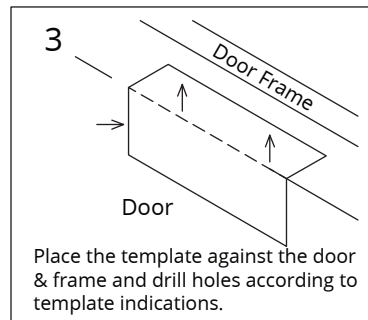
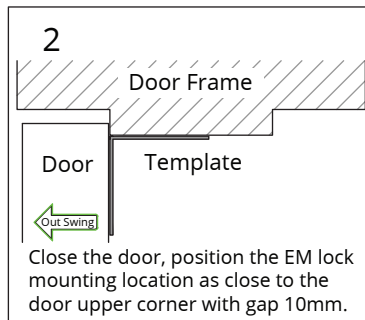
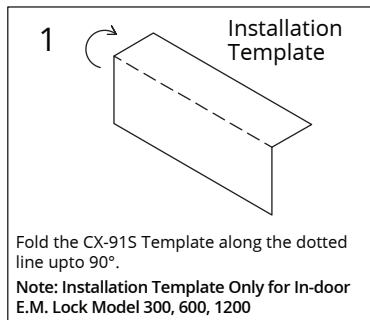
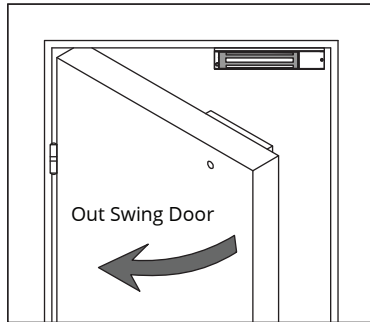
All drawings shown are for illustration purpose only.
Actual product may vary due to product enhancement.

4. TROUBLE SHOOTING

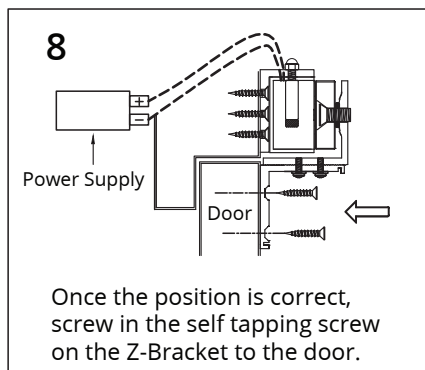
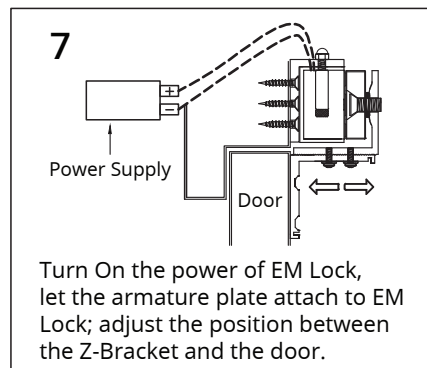
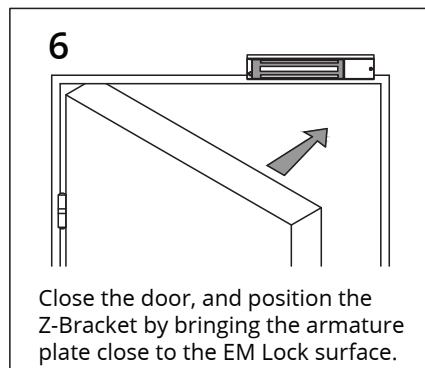
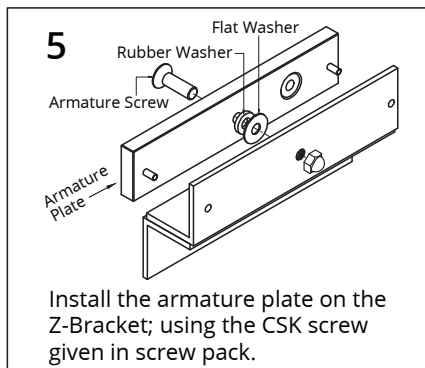
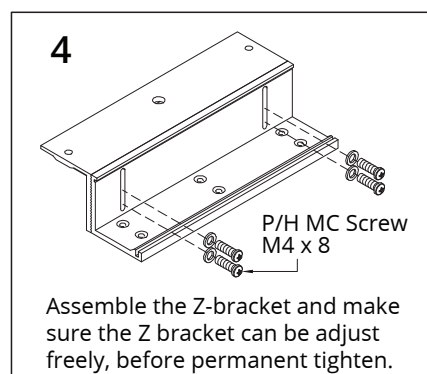
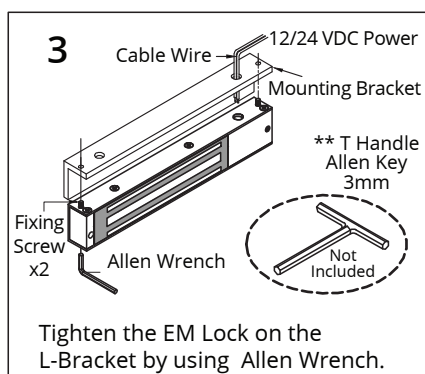
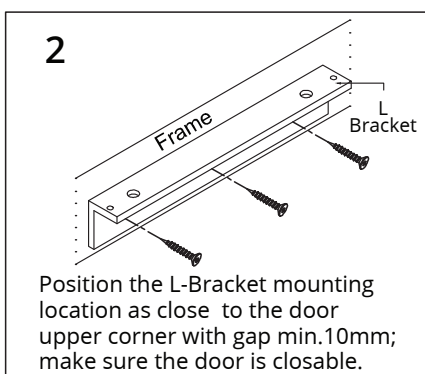
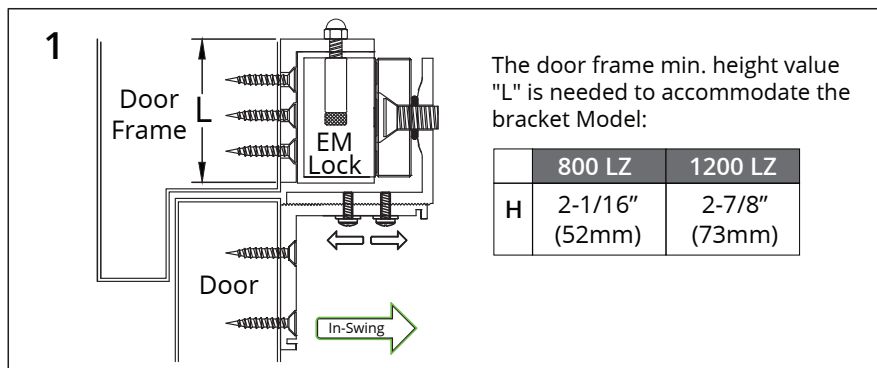
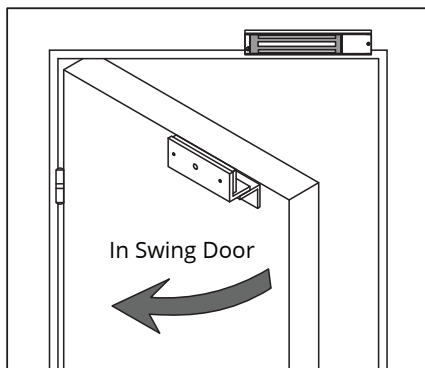
1. Sensor not functioning:
 - Improper attachment of electromagnet and armature plate.
 - Modification of the PCB
2. Door not locked:
 - Incorrect wiring or no power from power supply
3. Reduced holding force:
 - Poor contact of electromagnet and armature
 - Be sure armature is loose enough that it can fully contact electromagnet along the entire length
 - Mating surface is dusty or damaged
 - Improper input voltage or wire size.



5. REGULAR INSTALLATION GUIDE (FIGURE 2)



6. LZ BRACKET FOR IN-SWING DOOR INSTALLATION GUIDE (FIGURE 3)



Distance in feet from power supply to the furthest lock unit

Amps	25f	50f	75f	100f	150f	200f	250f	300f	400f	500f	1000f
0.25	18	18	18	18	18	16	16	14	14	12	
0.50	18	18	18	16	16	14	12				
0.75	18	18	16	14	12	12					
1.00	18	16	14	14	12						
1.50	18	14	12	12							
2.00	16	14	12								
Amps	25f	50f	75f	100f	150f	200f	250f	300f	400f	500f	1000f
0.25	18	18	18	18	18	18	18	18	16	16	16
0.50	18	18	18	18	18	16	16	14	14	12	
0.75	18	18	18	18	16	14	14	12	12		
1.00	18	18	16	16	14	14	12	12			
1.50	18	18	16	14	14	12					
2.00	16	16	14	14	12						

Minimum Wire Gauge (AWG) for 12VDC

Minimum Wire Gauge (AWG) for 24VDC

CX-91S TDS Series

Serrures magnétiques de porte

INSTRUCTIONS D'INSTALLATION



UL 1034 / UL 294
Standard for
Burglary-Resistant
Electric Locking
Mechanisms



ULC S533-15
Standard for
Access and Egress

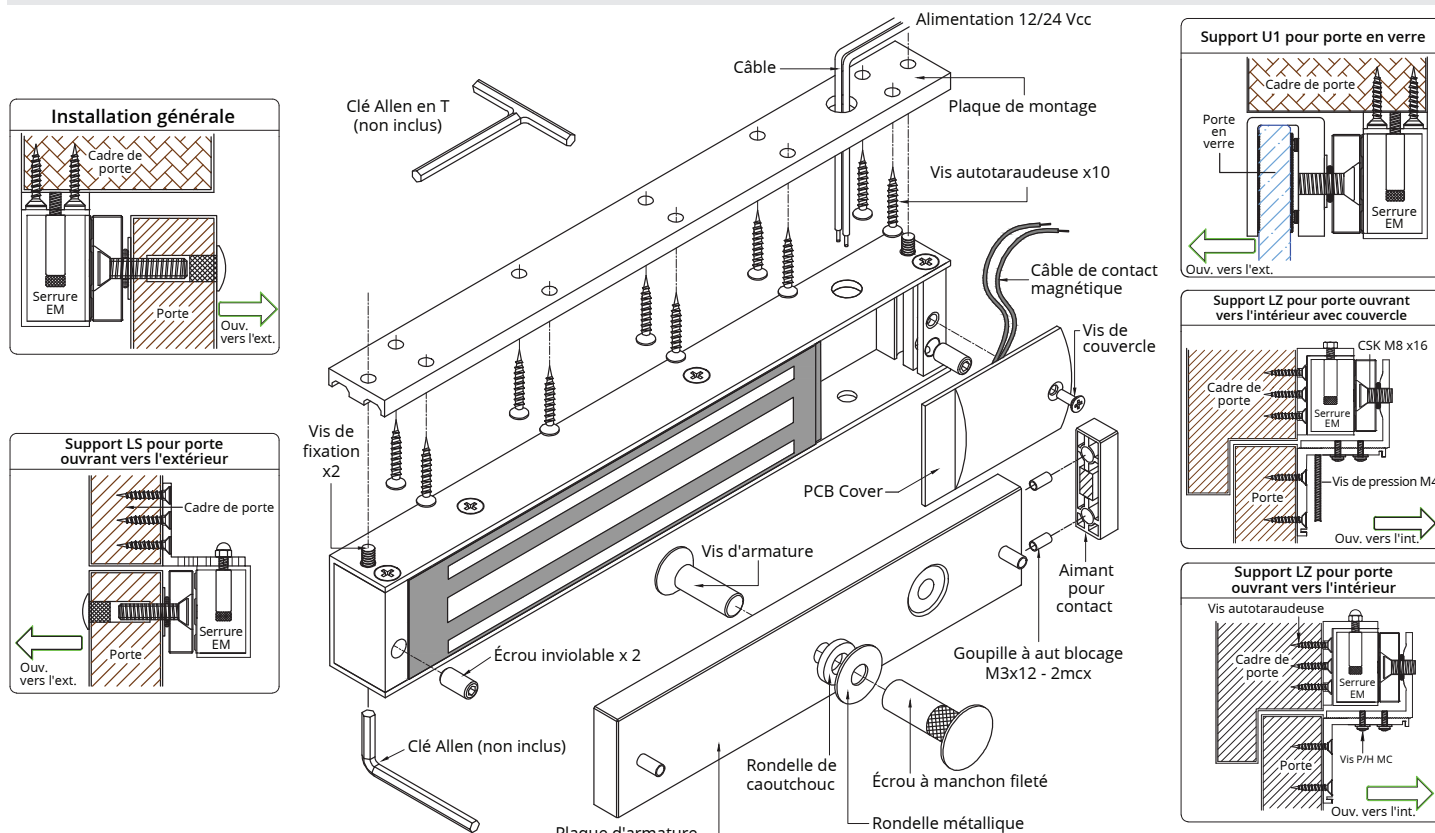
1. PARAMÈTRES TECHNIQUES

	CX-91S-06-TDS	CX-91S-12-TDS
Static Strength	600 lbs. (Factory Tested) ** 500 lbs. (UL Verified)	1200 lbs. (Factory Tested) ** 1000 lbs. (UL Verified)
Force Dynamique	50 ft-lb	70 ft-lb
Tension	12/24 V C.C.	12/24 V C.C.
Appel de courant	510mA/285mA	500mA/265mA
Dimensions (Corps)	9-7/8 po W x 2 po H x 1 po D (250 mm x 50 mm x 25 mm)	10-1/2 po W x 2-5/8 po H x 1-1/2 po D (266 mm x 67 mm x 39 mm)
Dimensions (Plaque d'armature)	7-5/32 po W x 1-3/4 po H x 15/32 po D (182 mm x 44 mm x 12 mm)	7-9/32 po W x 2-13/32 po H x 5/8 po D (185 mm x 61 mm x 16.5 mm)
Endurance	250 000	250 000

Niveaux de rendement

- Attaque destructrice = niveau I
 - Sécurité de lignes = niveau I
 - Alimentation de secours = niveau I
 - Endurance = niveau IV
- (Source relais n ° 2 et n ° 3)

2. CONCEPT D'INSTALLATION DE BASE ET ACCESSOIRES (FIGURE 1)



3. INSTALLATION

1. Percer les trous de la plaque d'armature dans la porte à l'aide du gabarit autocollant fourni.
2. Fixer la plaque d'armature à la porte avec la quincaillerie fournie selon la figure 2.3.
3. Avec la porte fermée, marquer le cadre de porte à l'extrémité de l'armature afin de bien aligner l'électroaimant à l'armature.
4. Fixer la plaque de montage au cadre de porte avec les vis autotaraudeuses fournies.
Aligner la plaque de montage de l'étape 3.
5. Insérer les câbles dans le trou de la plaque de montage et dans l'unité de l'électroaimant. Fixer l'unité de l'électroaimant à la plaque de montage avec la vis la plaque de montage avec le vis Allen.
6. Visser les écrous inviolables afin d'empêcher l'accès non autorisé et s'assurer de bien serrer la vis de fixation avec la clé Allen en T appropriée.
7. Les électroaimants installer doivent suivre:
 - Code de sécurité ANSI / INFPA 101
 - La juridiction qui a l'autorité locale.
 - Le guide d'installation du fabricant qui est fourni avec chaque unité.
 - Tout le câblage devant être branché dans la zone protégée.
8. Connectez le fil de contact magnétique au système de surveillance de la porte; selon les guides du système.
9. Le système de câblage devrait suivre les règlements de CSA C22.1 les codes électriques Canadian section 1, les standards de sûreté pour les installations électriques, section 32.

Remarque:

Installez à l'intérieur dans une location sèche.

Usez de prudence si vous changez les paramètres initiaux du manufacturier.

Il est recommandé d'appliquer mensuellement une fine couche de lubrifiant à base de silicone sur la surface de contact afin de prévenir la formation de rouille.

NOTIFICATION :

Tous les modèles sont reconnus :
UL 294 et ULC S533-15: La norme pour l'accès et sortie.

Modèles CX-91S-06 et CX-91S-12 sont inscrits
UL 1034, la norme pour anti-effraction électrique
Mécanisme de verouillage.

UL 294, Système de contrôle d'accès

** la valeur n'est pas vérifier par UL.

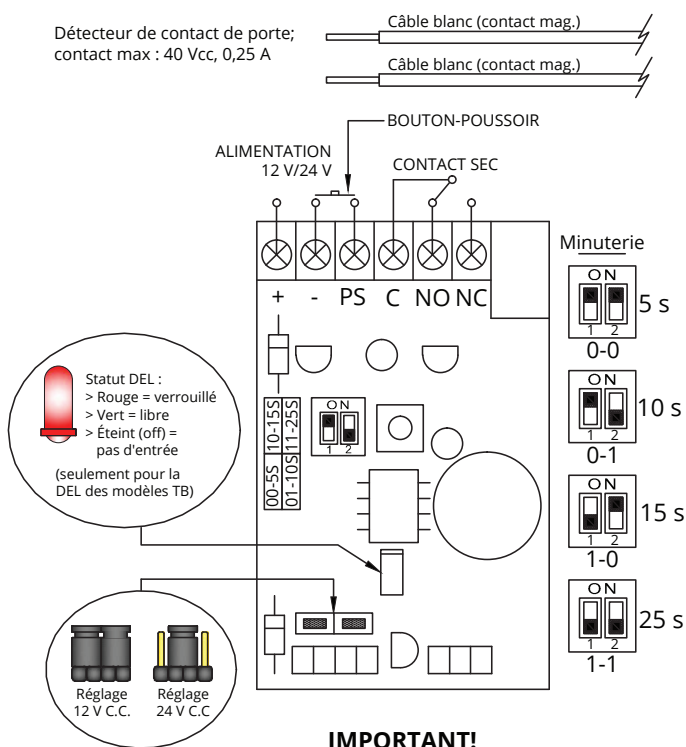
Notez :

Tous les dessins sont utiliser uniquement pour illustrer.

Le produit réel peut varier en raison de l'amélioration du produit.

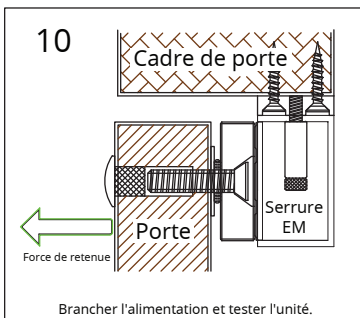
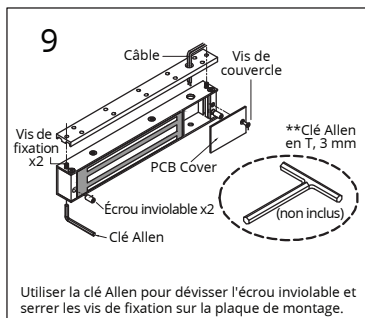
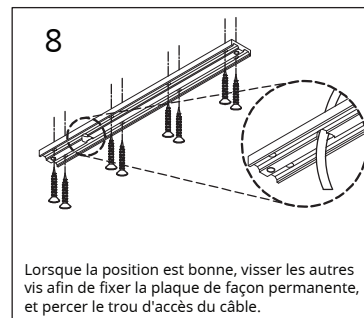
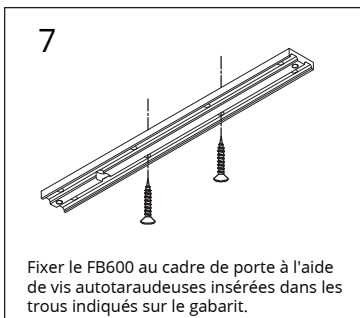
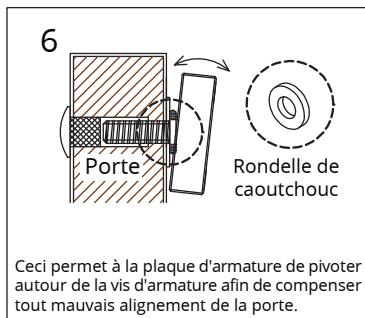
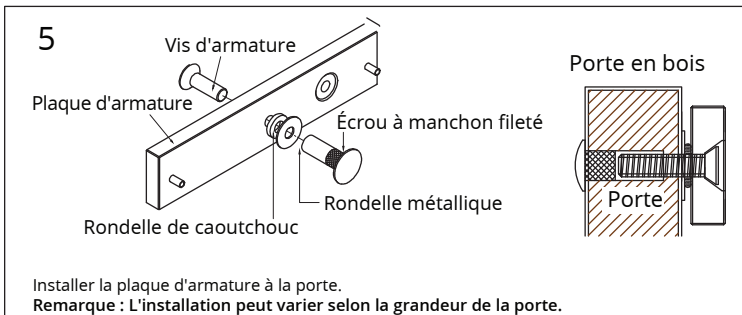
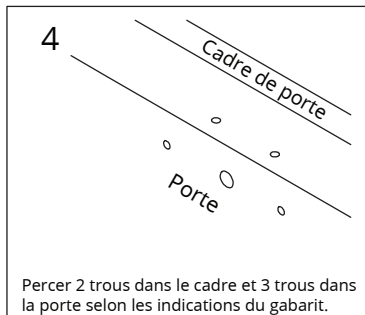
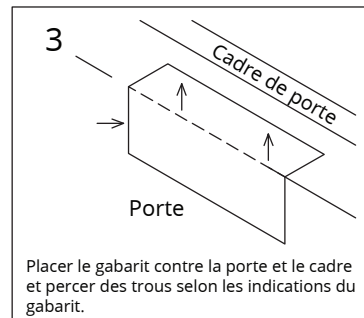
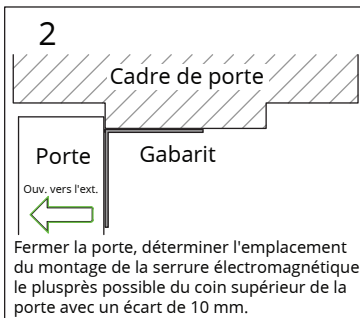
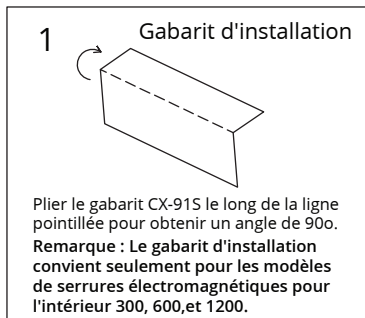
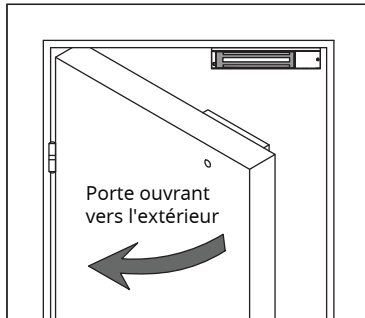
4. DÉPANNAGE

1. Le détecteur ne fonctionne pas:
 - Mauvaise fixation de l'électroaimant et de la plaque d'armature
 - Modification de la carte de circuits imprimés
2. La porte ne verrouille pas:
 - Mauvais branchement ou alimentation coupée de la source
3. La force de retenue est réduite:
 - Mauvais contact de l'électroaimant et de l'armature
 - S'assurer que l'armature soit suffisamment libre pour entrer complètement en contact avec l'électroaimant sur toute la longueur
 - La surface de contact est poussiéreuse ou abîmée
 - Mauvaise tension d'alimentation ou grosseur de câble.

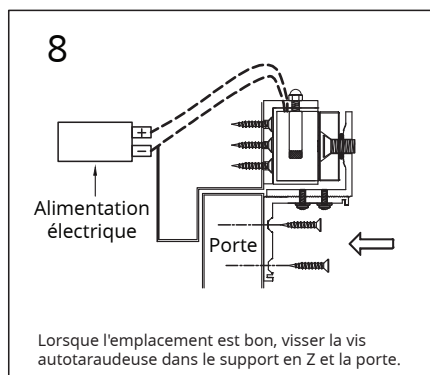
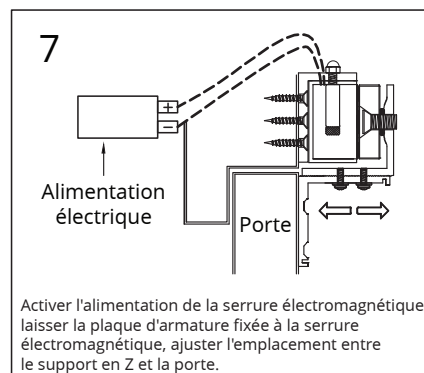
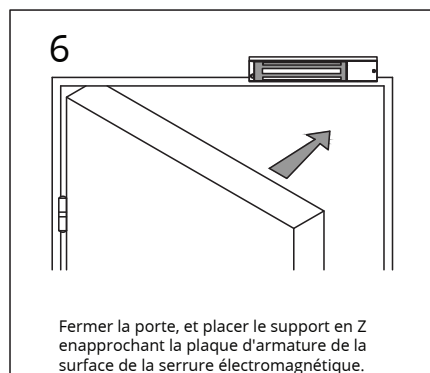
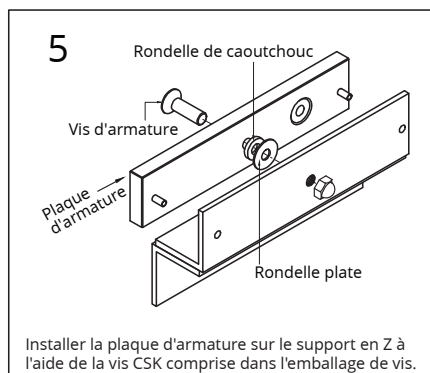
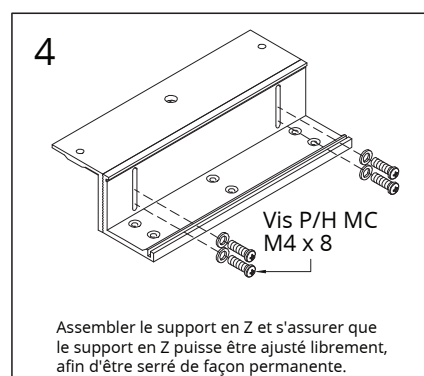
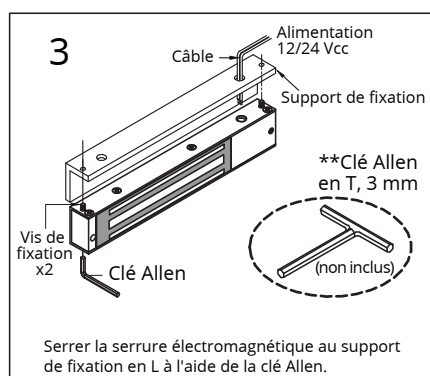
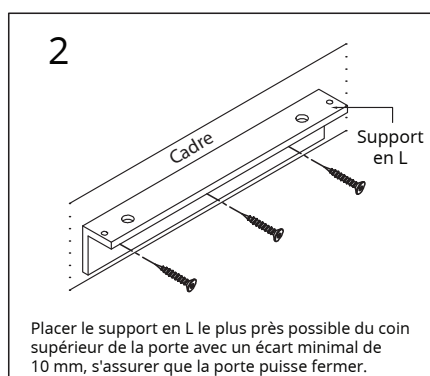
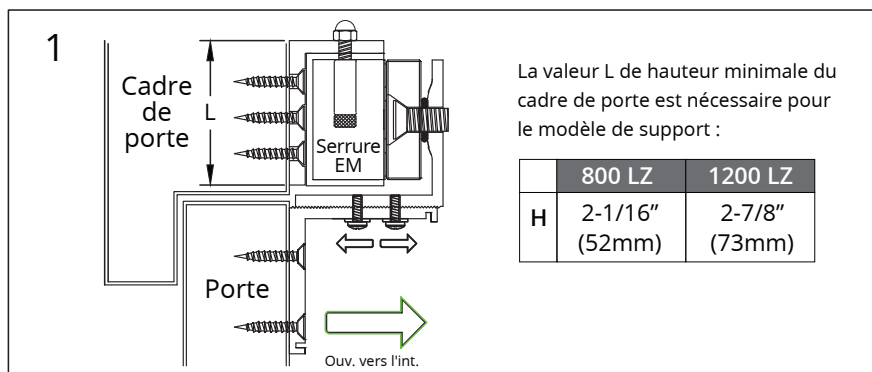
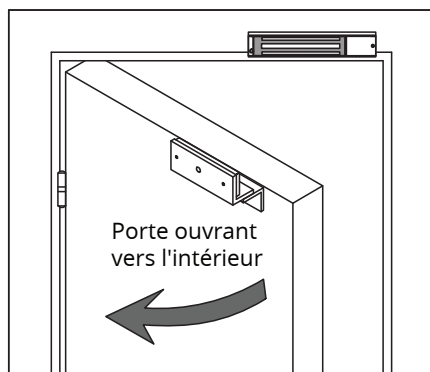
**IMPORTANT!**

Bien régler la position du cavalier selon l'alimentation électrique avant d'activer l'interrupteur.

5. GUIDE D'INSTALLATION RÉGULIÈRE (FIGURE 2)



6. GUIDE D'INSTALLATION DU SUPPORT LZ POUR PORTE OUVRANT VERS L'INTÉRIEUR (FIGURE 3)



Distance en pieds de l'alimentation jusqu'à la serrure la plus loin

	A	25f	50f	75f	100f	150f	200f	250f	300f	400f	500f	1000f
Calibre de fil minimal (AWG) pour 12 Vcc	0.25	18	18	18	18	18	16	16	14	14	12	
	0.50	18	18	18	16	16	14	12				
	0.75	18	18	16	14	12	12					
	1.00	18	16	14	14	12						
	1.50	18	14	12	12							
	2.00	16	14	12								
Calibre de fil minimal (AWG) pour 24 Vcc	Amps	25f	50f	75f	100f	150f	200f	250f	300f	400f	500f	1000f
	0.25	18	18	18	18	18	18	18	18	16	16	16
	0.50	18	18	18	18	18	16	16	14	14	12	
	0.75	18	18	18	18	16	14	14	12	12		
	1.00	18	18	16	16	14	14	12	12			
	1.50	18	18	16	14	14	12					
	2.00	16	16	14	14	12						