SECO-LARM

Electromagnetic Lock E-941SA-600 600-lb. (272kg) E-941SA-1200 1200-lb. (545kg)

With LED, Bond Sensor E-941SA-600PQ 600-lb. (272kg) E-941SA-1K2PQ 1200-lb. (545kg)

Weatherproof E-941SA-300 300-lb. (136kg)*

Manual



*E-941SA-300 is not UL listed.



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Introduction:

The E-941SA series of electromagnetic locks is the ideal way to secure a door against unauthorized entry. When power is applied to the electromagnetic lock, it creates an extremely strong magnetic field. The electromagnet is strongly attracted to the steel armature plate which is mounted on the secured door. Once the electromagnet is deactivated, the secured door will function normally without any residual magnetism.

Features:

- Anodized aluminum.
- No residual magnetism.
- MOV surge protection.
- Adjustable mounting bracket.
- Complete mounting hardware for typical installations.
- "L" bracket and "Z" brackets available for easy mounting. *
- 12/24VDC selectable.*
- Detachable faceplate.*
- E-941SA-1K2PQ and E-941SA-600PQ also feature:
- Built-in dual-colored status LED and bond sensor to show locking status:

| Green | Door is closed and locked |
|-------|-------------------------------|
| Red | Door not closed and/or locked |
| Off | Door in use / No power |

E-941SA-300 features:

- Weatherproof for outdoor use.
- Pre-installed 36" (91cm) hookup wire included.

*E-941SA-300 does not have this feature.

Specifications:

| | 300-lb | 600 | -lb | 1,200-lb | |
|-------------------|--|---|--|--|--|
| Operating voltage | | 12 or 24 V | | 'DC ±10% | |
| 12VDC | 315mA@ | | 500mA | | |
| 24VDC | N/A | | 250mA | | |
| | 48Ω | ±10% per c | oil (see pa | age 8) | |
| y | 3A@12VDC | | | | |
| Magnat | 6 ³ / ₄ " x 1" x 1 ¹ / ₄ " | 9 ⁷ / ₈ " x 1 ¹ / ₁₆ " x 1 ⁵ / ₈ " | | 10 ¹ / ₂ " x 1 ⁵ / ₈ " x 2 ⁵ / ₈ " | |
| waynet | (170 x 23 x 32 mm) | (250 x 26 | x 40 mm) | (268 x 42 x 67 mm) | |
| Armatura plata | 6" x ³ /8" x 1 ¹ /4" | | | 7 ¹ / ₄ " x ⁵ / ₈ " x 2 ³ / ₈ " | |
| Annalure plate | (152 x 10 x 32 mm) | (185 x 12 | x 38 mm) | (185 x 16 x 61 mm) | |
| rature | 14°~131° F (-10°~55° C) | | | | |
| 600-lb | 2-lb 13.5-oz (1.3kg) | 4-lb 6-o | z (2kg) | 11-lb (5kg) | |
| | No | Yes | | Yes | |
| | 12VDC 24VDC y Magnet Armature plate rature | e 12VDC ±10% 12VDC 315mA@ 24VDC N/A 48Ω y 6 ³ / ₄ " x 1" x 11/ ₄ " (170 x 23 x 32 mm) 6" x ³ / ₈ " x 1 ¹ / ₄ " (152 x 10 x 32 mm) rature 14 600-lb 2-lb 13.5-oz (1.3kg) | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | |

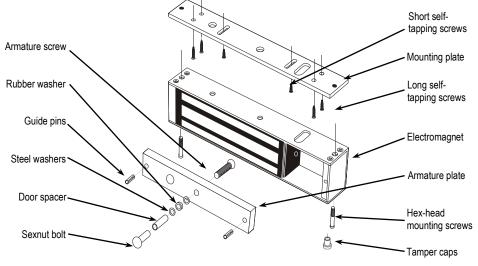
Parts List:

- 1 x Mounting plate
- 1 x Electromagnet
- 1 x Armature plate
- 1 x Armature screw
- 2 x Steel washers
- 1 x Rubber washer
- 1 x Door spacer
- 1 x Sexnut bolt
- 2 x Guide pins
- 4 x Long self-tapping screws
- 2 x Short self-tapping screws
- 2 x Hex-head mounting screws
- 2 x Tamper caps
- 2 x Allen wrenches

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SECO-LARM ELECTROMAGNETIC LOCK

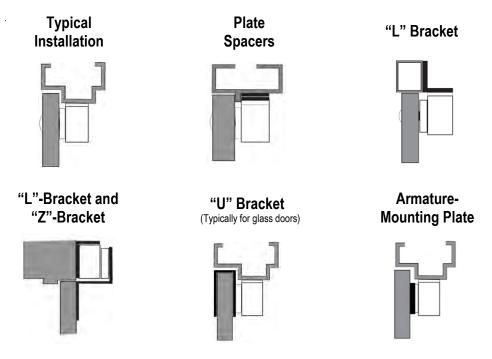
Overview:



Installation Applications:

NOTE: When mounting the electromagnet, it may be necessary to use a "Z"-bracket, 1 or 2 "L"-brackets, and/or plate spacers, depending on the location and the type of door and frame. Use the diagram below to help decide whether or not an optional bracket will be necessary for installation.

See page 7 for a complete list of SECO-LARM accessories.

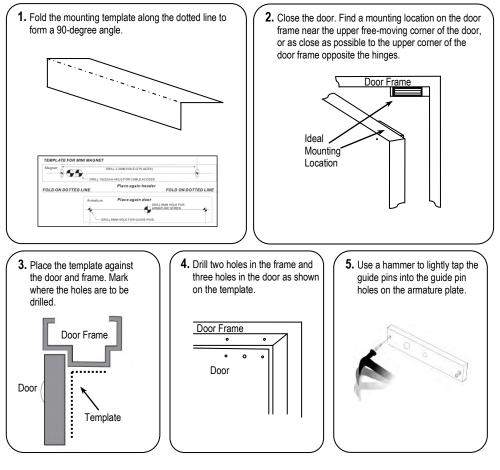


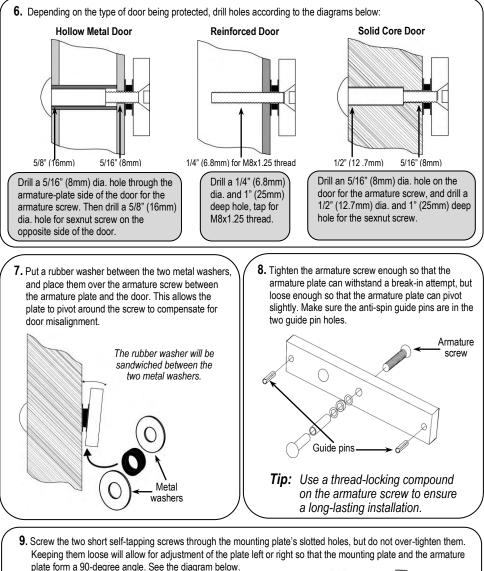
SECO-LARM ELECTROMAGNETIC LOCK

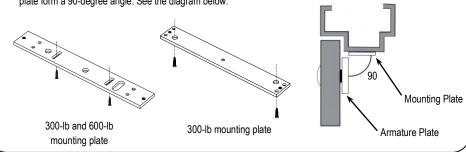
Installation Notes:

- 1. Read this installation manual thoroughly. A clear understanding of the product and this manual will make installation much easier.
- 2. The electromagnetic lock is designed for indoor use ONLY.
- The most suitable mounting location for the electromagnetic lock may require the use of additional SECO-LARM accessories such as Z-brackets, L-brackets, and/or spacer plates. Please see the diagram on page 3 to decide if a particular application requires any mounting accessories. See page 7 for a complete list of SECO-LARM accessories.
- 4. Do not run power wires and signal wires in the same conduit as this may cause interference.
- 5. Do not install a diode in parallel with the electromagnetic lock as this may cause a delay when releasing the door as well as cause residual magnetism.
- 6. The best location to install the electromagnetic lock is on the inside of the door that is being secured with the wiring concealed in the frame to prevent tampering with the unit.

Installation:

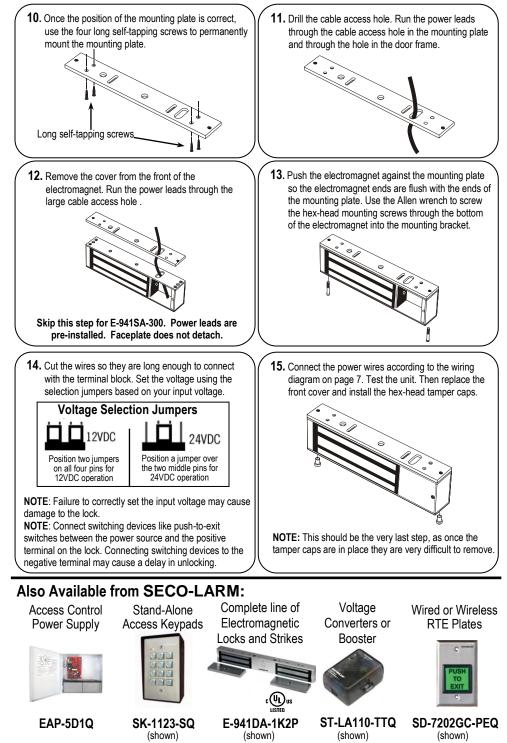






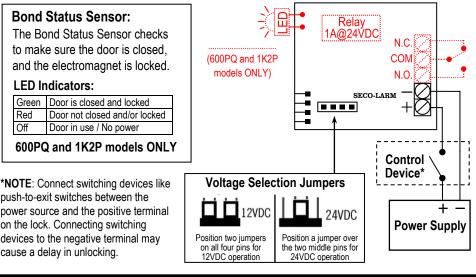
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Wiring Diagram:



Maximum Distance from Power Source to Electromagnetic Lock:

For a complete chart, please visit www.seco-larm.com

12VDC Minimum Wire Gauge:

| Wire Length | 25ft. | 50ft. | 75ft. | 100ft. | 150ft. | 200ft. | 250ft. | 300ft. | 400ft. | 500ft. | 1000ft. |
|--------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| Wire Gauge @ 500mA | 20 | 18 | 18 | 18 | 16 | 14 | 14 | 12 | 10 | | |

24VDC Minimum Wire Gauge:

| Wire Length | 25ft. | 50ft. | 75ft. | 100ft. | 150ft. | 200ft. | 250ft. | 300ft. | 400ft. | 500ft. | 1000ft. |
|--------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| Wire Gauge @ 250mA | 24 | 24 | 22 | 20 | 18 | 18 | 16 | 16 | 14 | 14 | 14 |

Note: E-941SA-300 is pre-wired.

Optional SECO-LARM Electromagnetic Lock Accessories:

| | Does not include armature plate | | A THE OTHER | | |
|----------------------|--|---------------|------------------------------------|----------------------------|---------------------------|
| Description | "Z" Brackets (includes 1 "L" Bracket) | "L" Brackets | Plate Spacers | Glass Door "U" Brackets | Armature Plate Holders |
| 600-lb. Models | E-941S-600/ZQ | E-941S-600/LQ | E-941S-600/PQ | E-941S-600/UQ | E-941S-600/HQ |
| 1200-lb. Models | E-941S-1K2/ZQ | E-941S-1K2/LQ | E-941S-1K2/PQ | E-941S-1K2/UQ | E-941S-1K2/HQ |
| Additional Models | E-941S-1K2/ZRQ (Right-side "Z" Bracket for E-941DA-1K2P) | | E-941D-1K2/P (for E-941DA-1K2P) | | |

Note: Brackets and spacers are not available for E-941SA-300.

Troubleshooting:

| Door does not lock Bond status LED does not Illuminate | Check to make sure the wires are securely tightened to the terminal block. Check that the power supply is connected and operating. Use a meter to check the resistance of coils inside the lock. See below. Make sure the rubber washer is installed and free from damage. | | | | | |
|---|--|--|--|--|--|--|
| Door locks, but can easily be forced open | Make sure the electromagnet and armature plate are properly aligned. Make sure the contact surfaces of the electromagnet and armature plate are clean and free from rust. Check the power leads with a meter, and make sure 12VDC or 24VDC is present. Use a meter to check the resistance of coils inside the lock. See below. Make sure the rubber washer is installed and free from damage. | | | | | |
| Delay in door releasing | The electromagnet is fitted with a metal oxide varistor to prevent interference, so do not install a second diode. | | | | | |
| No relay output | Check that the power is connected properly and turned on. Make sure the lock is aligned properly. Make sure the NO/NC/COM are wired properly. | | | | | |
| Remove the faceplate from the Disconnect the wire harness fr Using a meter, measure the re Red / Green wires, and the Bla Each coil should test at 48Ω ± If one or both of coils shows ar | om the circuit board. sistance across: $48\Omega \pm 10\% - [$ White Black Green Redack / White wires. $48\Omega \pm 10\% - [$ Black Green Red10%. | | | | | |

resistance, replace the electromagnet.

LIFETIME LIMITED WARRANTY This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for the lifetime of the product. SECO-LARM's obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to SECO-LARM. Under no circumstances will SECO-LARM be responsible for any costs or charges for removal, installation, or reinstallation. This Warranty is void if damage is caused by or attributed to acts of God, physical or electrical misuse or abuse, neglect, repair, or alteration, improper or abnormal usage, or faulty installation, or if for any other reason SECO-LARM determines that such equipment is not operating properly as a result of causes other than defects in material and workmanship. The sole obligation of SECO-LARM, and the purchaser's exclusive remedy, shall be limited to repair or replacement only, at SECO-LARM's option. In no event shall SECO-LARM be liable for any special, collateral, incidental, or consequential personal or property damages of any kind to the purchaser or anyone else. This lifetime limited warranty is for products sold and installed in the United States and Canada. For all other countries the warranty is 1 (one) year.

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