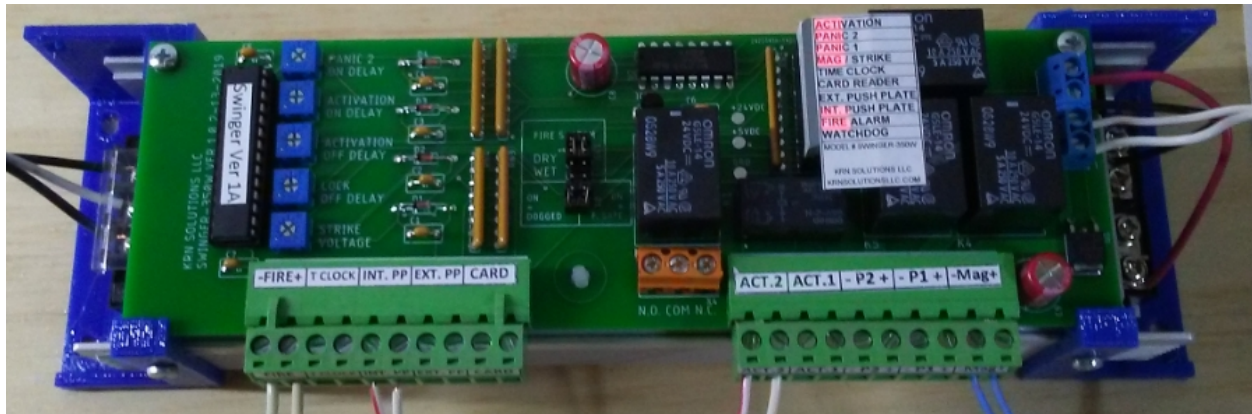


Swinger-350W

Setup Instructions



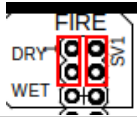
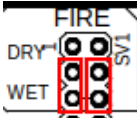
Overview:

Thank you for purchasing this from KRN Solutions LLC. This control is unique to what you may have used before, So I would recommend reading this setup instructions completely before going to any job site. The most current version and other supporting documents can be found at www.krnsolutionsllc.com.

This control is a microprocessor base control. This allows flexibility in functions for both current and future features. All adjustments can be made without a handheld/computer. It uses a 24 VDC 350 watt regulated power supply. It can be used with panic bars as Von Duprin QEL, Sargent, Detex, First Choice, Yal, Falcone, and 24VDC magnetic locks or strikes.

It's small size of 9 3/4" L x 2 3/4" W x 2 1/2" H. Allows it to be installed in most automatic door headers.

Inputs: Each input has an LED to indicate input statuses. Control also has a power and watchdog (WD) LEDs. This WD LED will blink indicating the control has power and the program is running.

Label	Function
FIRE DRY INPUT	Fire System Setup: Dry, normally closed contact from fire system. Must set jumpers as shown. 
FIRE 24VDC INPUT	Fire System Setup: 24VDC from fire system. Note: When set for 24 VDC in, if polarity is wrong, control will work, but LED will not light. Must set jumpers as shown. 
T CLOCK Time Clock	Dry contact, that is to be normally open. When closed, removes/applies power to MAG/STRIKE output only. This will also enable the EXT. PP input. Usage: Day/Night on a door is used for both security and fire with positive latching.
INT. PP Interior Push Plate/Sensor	Dry contact, that is to be normally open. When closed, removes/applies power to MAG/STRIKE , applies power to PANIC 1 , PANIC 2 outputs and close both ACTIVATION outputs. Usage: Card reader, inside push plate. Outside push plate, if it is to be active 24/7.
EXT. PP Exterior Push Plate/Sensor	Dry contact, that is to be normally open. When closed, closes both ACTIVATION outputs. ONLY if the T CLOCK or CARD inputs were activated first. Usage: Outside push plate that is to be disabled at night.
CARD Card Reader	Dry contact, that is to be normally open. When closed, removes/applies power to MAG/STRIKE , output, and applies power to PANIC 1 and PANIC 2 outputs. This will also enable the EXT. PP input. Usage: Day/Night on a non-fire rated door, Card reader.

Outputs: Each output has an LED to indicate output statuses.

Label	Function
+ MAG -	MAGNETIC LOCKS/STRIKE: Can be set for, fail safe or fail secure 24 VDC locks. See below for settings. Max 2 amp output.
+ P1 -	PANIC 1: This is 24 VDC for the first panic. 16 amp for 300ms, then 4 amp max.
+ P2 -	PANIC 2: This is 24 VDC for the second panic. 16 amp for 300ms, then 4 amp max.
ACT.1	ACTIVATION 1: Dry contact, that is normally open. Activation for primary automatic door control. Max 1 amp.
ACT.2	ACTIVATION 2: Dry contact, that is normally open. Activation of a secondary automatic door control. Max 1 amp.
	DOGGED PANICS: Some doorways can be dogged/unlatched till there is a fire. This saves wear and tear on the panic(s) and reduces the noise during operation. Move the jumper to DOGGED to enable this function.
	Fail Safe/Fail Secure Setting. This selects the type of lock connected to the Mag/Strike output. Move the jumper to F. SAFE for fail safe locks.
-24V+	24VDC Output: For powering optional accessories. Max 3 amps.

Adjustments:

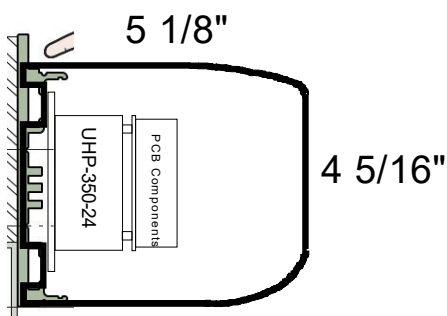
Label	Function
PANIC 2 ON DELAY	This is an on delay from MAG/STRIKE and PANIC 1 to PANIC 2 output. If only a strike/mag is used, set to min delay. This delay is adjustable from .25 to 2 seconds.
ACTIVATION ON DELAY	This is an on delay from PANIC 2 to ACTIVATION output. This delay is adjustable from .25 to 2 seconds.
ACTIVATION OFF DELAY	This is an off delay for the ACTIVATION outputs. This delay is adjustable from .25 to 10 seconds. This is also the amount of time the EXT. PP input is active.
LOCK OFF DELAY	This is the time the MAG/STRIKE , PANIC 1 and PANIC 2 outputs will hold active. It is a combination of both ACT. OFF DELAY and LOCK OFF DELAY settings. This delay is adjustable from .25 to 20 seconds.
STRIKE VOLTAGE	This sets the Mag/Strike output voltage after 5 seconds. This will reduce the heat produced by the strike. Leave fully clockwise for magnet locks.

Basic Troubleshooting:

Power shuts off	If the power supply shut down, check green power LEDs are light. Check that 115/220 switch is in the 115 position located on top of power supply. Check for shorts in wires and devices. Increase the PANIC 2 ON DELAY time.
No input or output LEDs	Check the WD LED is blinking. If it is not, check Fire Alarm input. Then remove power for 60 seconds. On power up, wait 60 seconds, if it still is not blinking. Replace lock control.

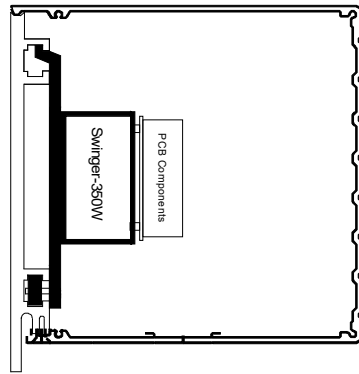
Mounting

The brackets, gives you an easy way to mounting this control in a header or control box.

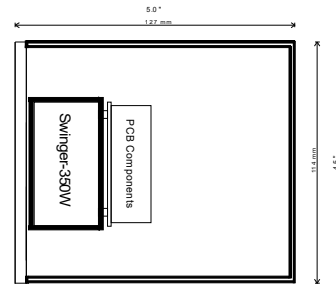


There are other optional mounting system available.

See attached sheets for class 2 wiring examples.



HORTON FULL ACCESS HEADER
MOUNTING OPTION
Part # Horton Mount



LOW PROFILE HEADER
MOUNTING OPTION
Part # Low Profile Mount

120 VAC Wiring:

1. For UL Installations, the power supply must be installed in the protected area within an Access Controlled room
2. Must be Installed within accordance with the National Electrical Code, ANSI/NFPA 70.
3. Must be Installed within accordance with Local authority having jurisdiction.
4. The AC input wiring shall
 - a. be in conduit,
 - b. be minimum No. 18 AWG wire,
 - c. maintain ¼ inch spacing between non power-limited wiring, and
 - d. be fail safe to meet the requirements of NFPA 101, Paragraph 7.2.1.6.

Grounding:

The ground wire from the power supply **MUST** be connected to chassis ground.

Performance Level Definitions for Access Control, per UL294 7th Edition.

Feature	Level
Destructive Attack	Level I, No attack test
Line Security	Level I, No line security
Endurance	Level III, 50,000 cycles
Standby Power	Level I, No secondary power source
Single Point locking Device with Key locks	Level I, No attack on key lock

LIMITED WARRANTY

KRN Solutions LLC ("Seller") warrants to the first purchaser of this product, for the installation in which this product is originally installed, that it will be free from any defect in materials and/or workmanship for a period of 12 full months from the date of purchase. The product must be used in complete accordance with included instructions for installation, operation and care. **The proper operation of this product is dependent on your compliance with the Owner's Manual instructions regarding installation, operation, maintenance and testing. Failure to comply strictly with those instructions will void this warranty in its entirety.**

If, during the limited warranty period, it appears as though this product contains a defect which is covered by this limited warranty, **CALL OUR number at 267-382-3900 or email krnsolutions.llc@gmail.com.** You will be advised of shipping instructions and address. Then send this product, prepaid and insured, to our service center for warranty repair. Please include a brief description of the problem and a dated proof-of-purchase receipt with any product that is returned for warranty repair.

Products returned to Seller for warranty repair, which upon receipt by Seller are confirmed to be defective and covered by this limited warranty, will be repaired or replaced (at Seller's sole option) at no cost to you and returned pre-paid. Defective parts will be repaired or replaced with new or factory-rebuilt parts at Seller's sole option.

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