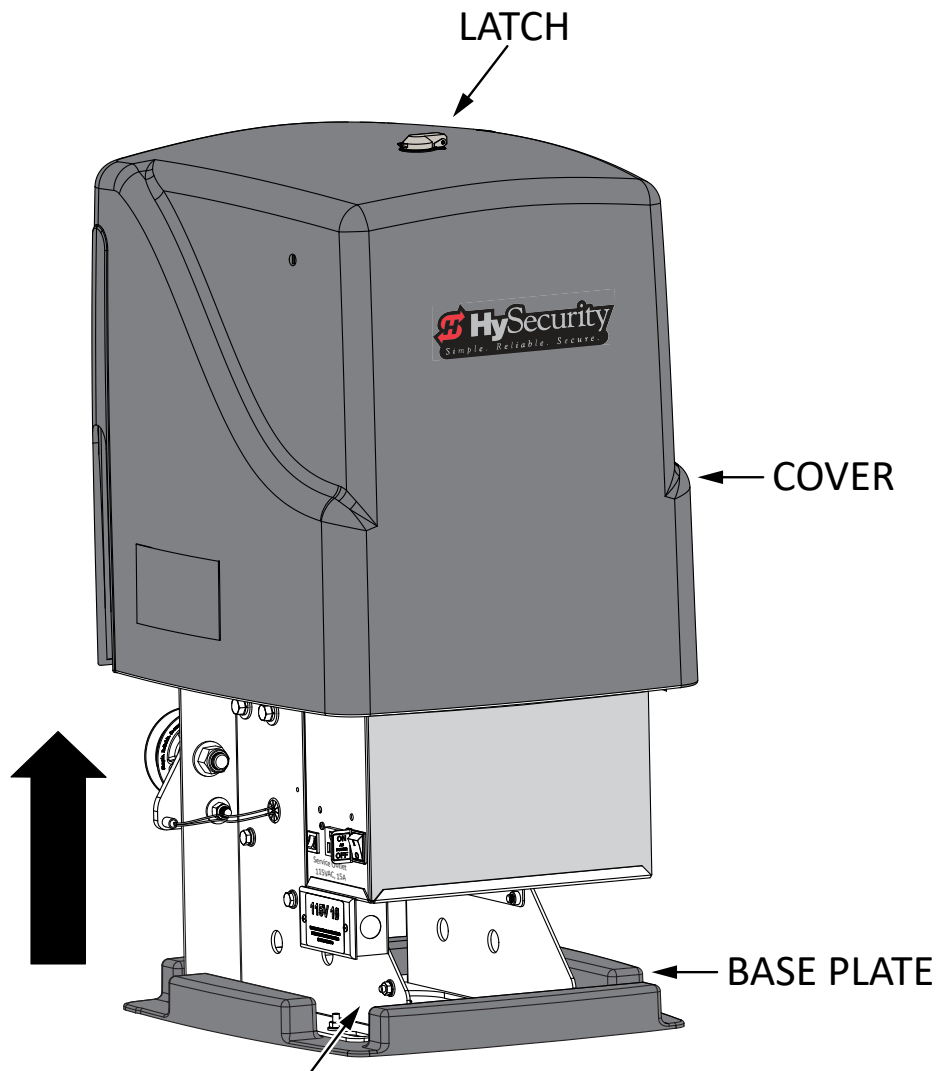




Quick Start Guide

SlideSmart DC™ DC10, DCS10, DC15, DCS15



 **HySecurity**®
a company of TheNiceGroup

**UNPACK
THE OPERATOR**

SITE PLANNING AND OPERATOR INSTALLATION

2

The illustrations and instructions presented in this guide provide a quick overview of the SlideSmart installation process. For more detailed steps, refer to the SlideSmart DC Programming and Operations Manual.

IMPORTANT: When installing the operator, be sure to comply with all local government regulations and codes, and read the Important Safety Instructions found in the manual.



WARNING Be sure to place the WARNING signs on both sides of the gate. For your records, take a photograph of the completed installation site.

Attach WARNING Signs

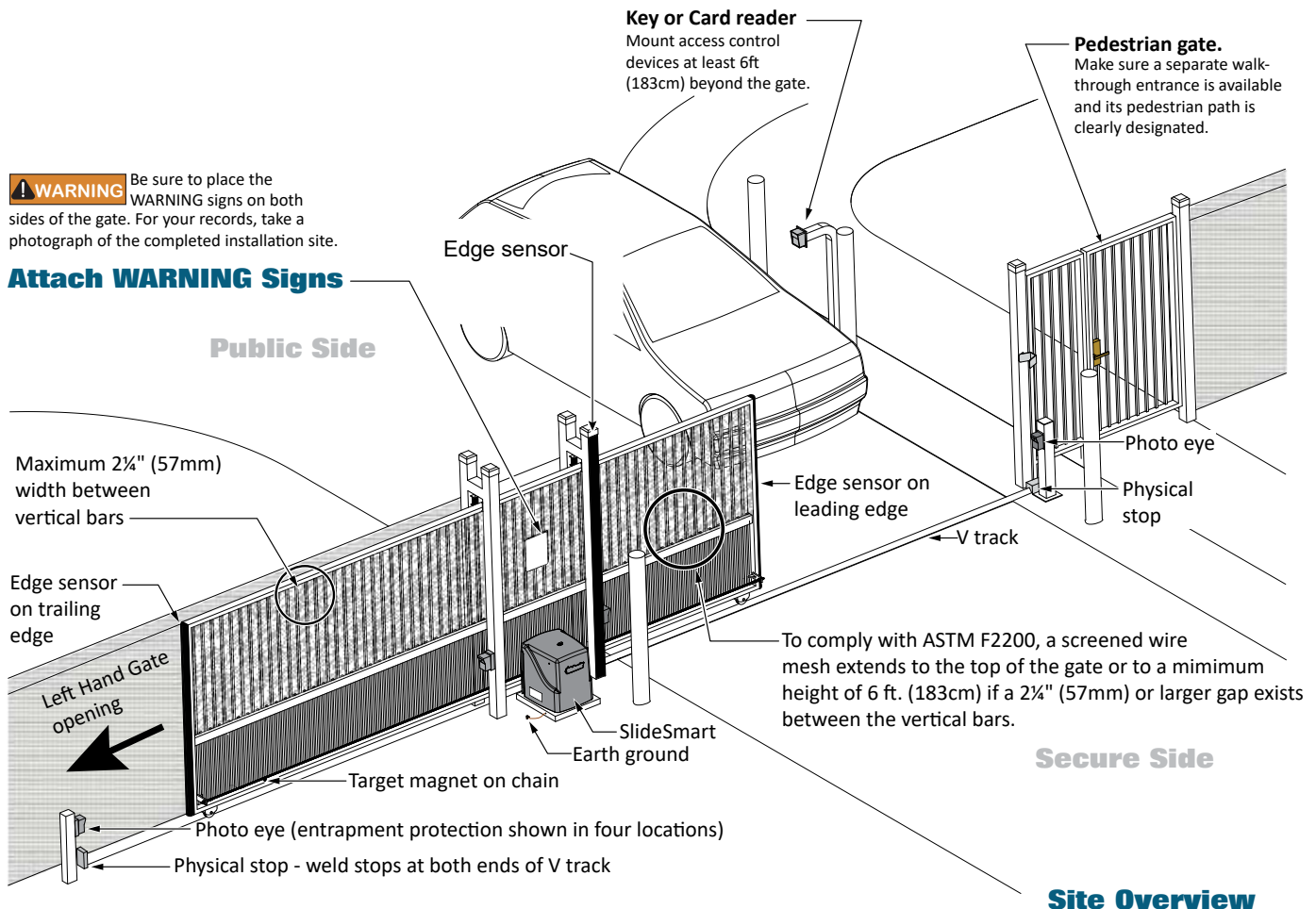


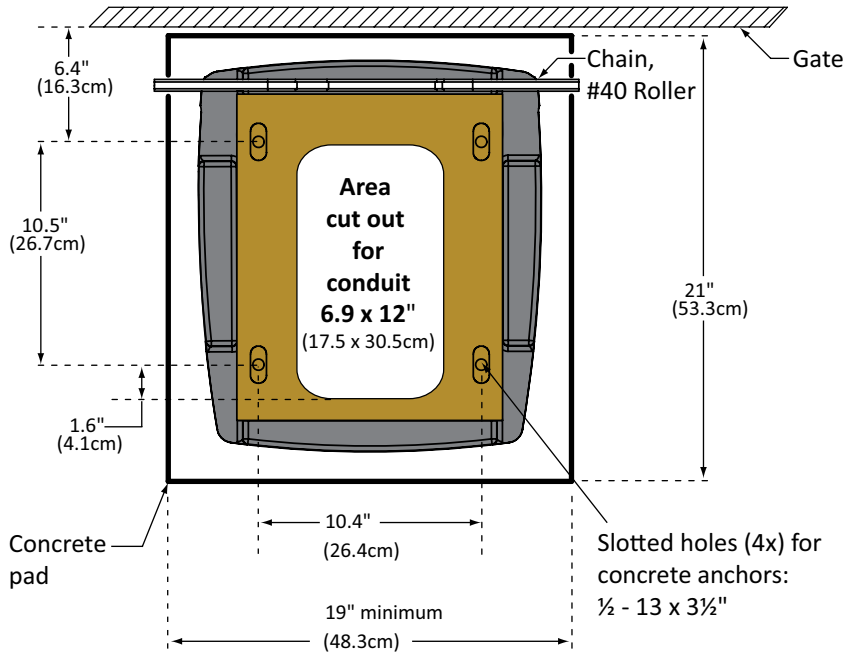
Table 1. SlideSmart Specifications

Operator	SlideSmart DC 15	SlideSmart DC 10F
Duty Cycle	continuous	continuous
Power, 1Ø	Switch Selectable 115 volts, 3 amps, 50/60 Hertz 208-230 volts, 1.5 amps, 50/60 Hertz	Switch Selectable 115 volts, 3 amps, 50/60 Hertz 208-230 volts, 1.5 amps, 50/60 Hertz
Motor	1/2 hp	1/2 hp
Gate Speed	1 ft/s)	2 ft/s
Gate Weight	Maximum 1500 lbs (680 kg)	Maximum 1000 lbs (454 kg)
Note: For SlideSmart DC Solar operators, refer to www.hysecurity.com		

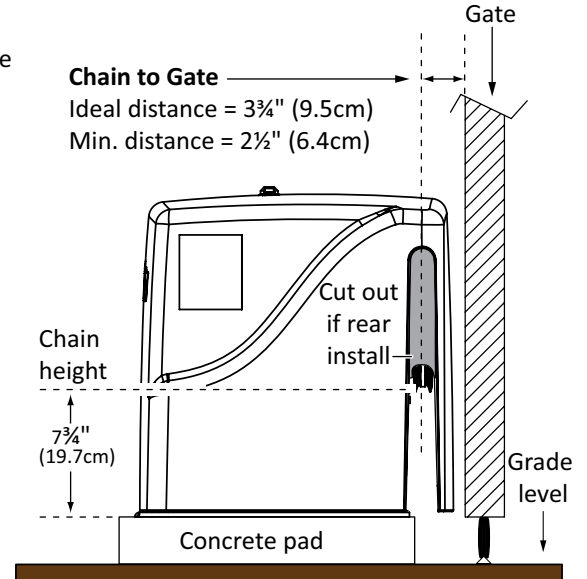
OPERATOR & EARTH GROUND INSTALLATION

3

CONCRETE PAD DIMENSIONS



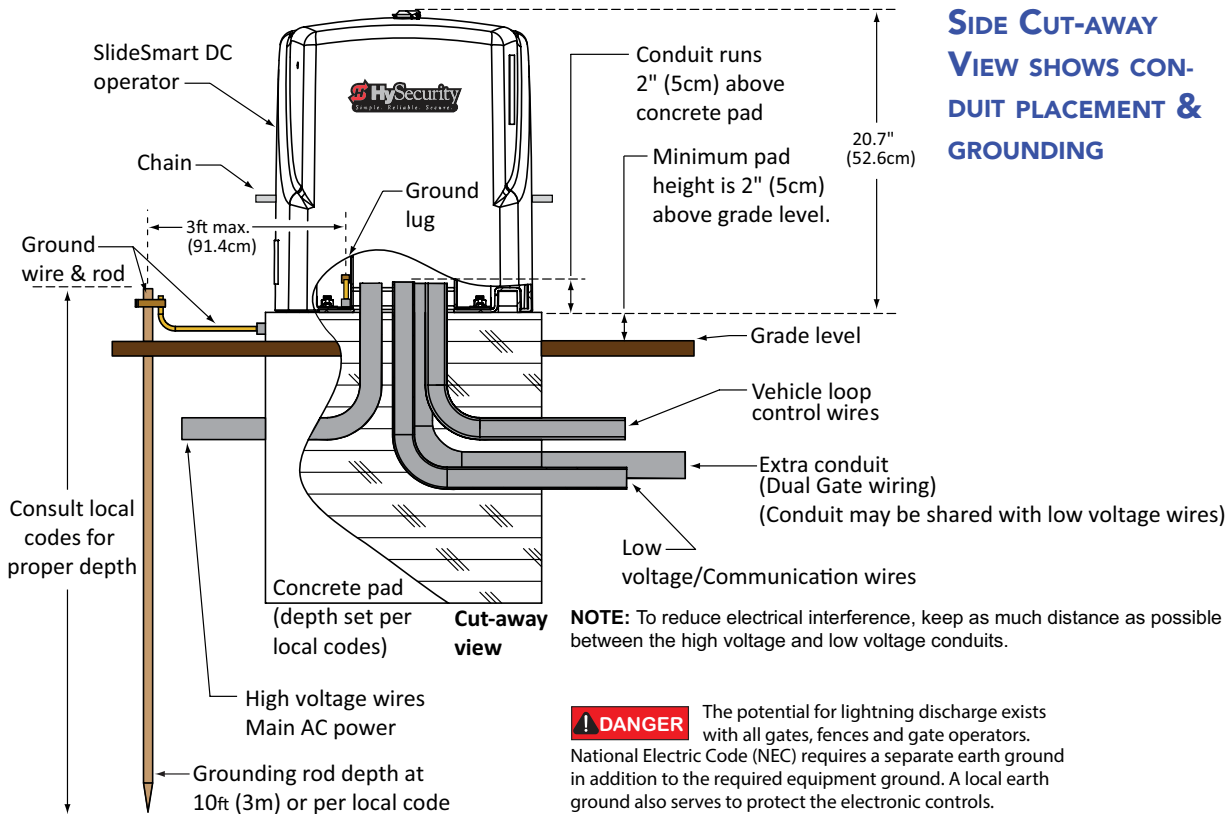
Mount the Operator



Side View

NOTE: Operator footprint with covers is approximately 18" square (45.7cm).

SIDE CUT-AWAY VIEW SHOWS CONDUIT PLACEMENT & GROUNDING



DANGER The potential for lightning discharge exists with all gates, fences and gate operators. National Electric Code (NEC) requires a separate earth ground in addition to the required equipment ground. A local earth ground also serves to protect the electronic controls.

INSTALL THE CHAIN

4

PUBLIC SIDE

Trailing Edge of Gate

Front edge of gate

Pedestrian Gate

SECURE SIDE

INSTALL THE CHAIN BRACKETS

1. Measure for proper chain alignment BEFORE welding the brackets to the gate. Make sure the chain will run horizontal to the ground and parallel with the gate.
2. Weld the chain brackets to gate. Two locations:
1) leading edge,
2) trailing edge.
3. Attach the eye bolts to the brackets as shown.
4. Attach the connector link to the chain and eye bolt.
5. Feed the chain around the idler wheels and over the sprocket.
6. Adjust the nuts on the eye bolt to tighten the chain and minimize sag.

Chain Bracket
1/8"

Connector Link

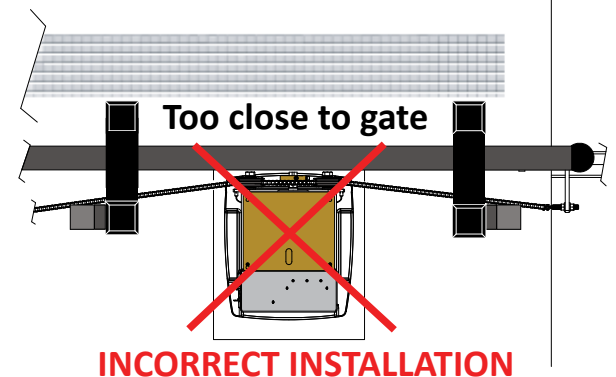
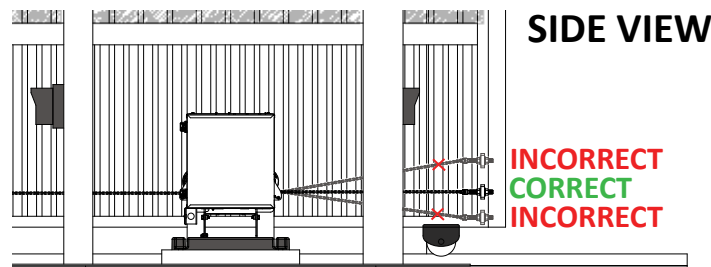
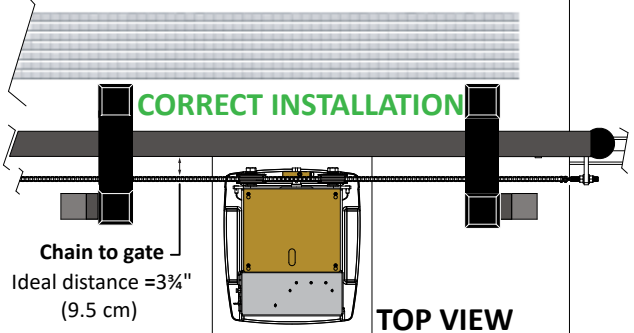
Eye Bolt

Measure chain height. Weld bracket to gate so chain remains horizontal and level.

7 3/4"
(19.7cm)

INSTALL AND ALIGN THE CHAIN

Feed chain over sprocket. View illustration in step 7, also.

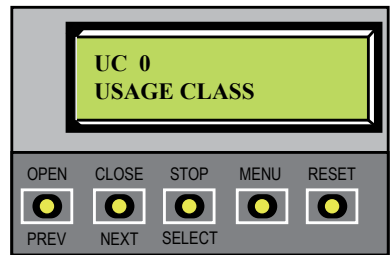


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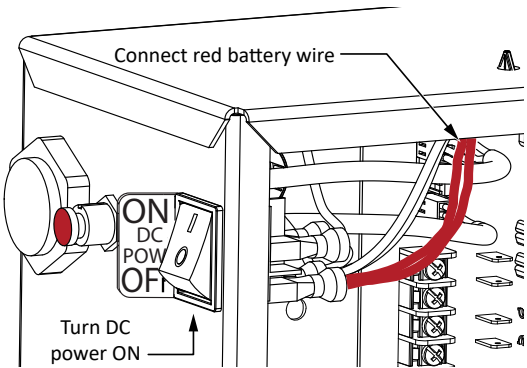
INITIAL MENU SETUP

Connect the red battery wire to its spade terminal. Turn ON DC power. The USAGE CLASS menu display appears the first time power is applied. Six sequential displays present information which must be configured before SlideSmart will function.

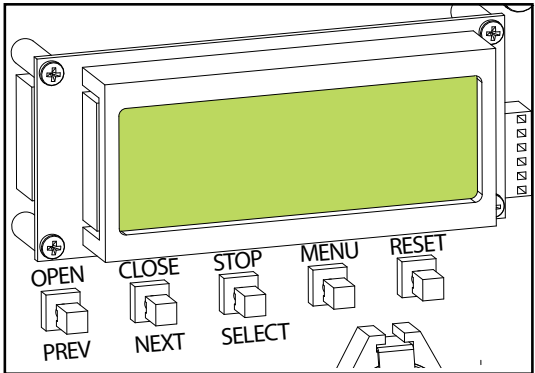
To edit the MENU	To navigate through SELECTIONS	To choose what is on the display	To navigate between menus
Press SELECT <i>Two top characters blink.</i>	Press NEXT. <i>Continue pressing NEXT to view all selections.</i>	Press SELECT. <i>Blinking characters become static.</i>	Press NEXT or PREV. <i>Advance – press NEXT Previous – press PREV</i>



- Selections
- 0 – No Usage Class set.
 - 1 – Single Family residential up to four units.
 - 2 – Multi-family, hotel, etc.
 - 3 – Industrial use, not for general public.
 - 4 – Guarded and monitored facility not for general public.



- Selections
- 0 – No handing set. Gate will not move until handing is set.
- Looking at the gate from the secure, operator side, choose:
- R – If the operator opens to the right.
 - L – If the operator opens to the left.



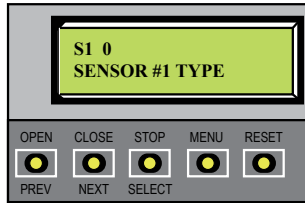
- Selections
- 0 – Not set.
- SlideSmart DC 15 & 10F**
- 1 – Gate weight: 0 to 400lbs (0 to 181 kg)
 - 2 – Gate weight: 401 to 800lbs (182 to 363 kg)
 - 3 – Gate weight: 801 to 1100lbs (363 to 499 kg)
 - 4 – Gate weight: 1101 to 1500lbs (499 to 600kg)

SENSOR 1,2,3 SETUP AND LEARN LIMITS

6

SENSOR 1,2,3 SETUP

UL 325 - 2018 sensor input setting for external entrapment protection sensor monitoring. All three sensor inputs must be configured to a non-zero number before the gate operator will allow gate movement. Edge Both is only available in Swing Gate operator types. Eye Both is only available in solo Slide Gate operator types.



Selections

0 – disabled

1 – (NOT USED)

2 – (EYE CLOSE)

3 – (EDGE CLOSE)

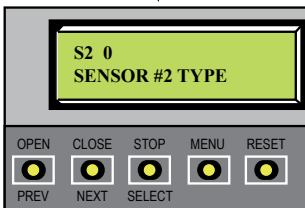
Selections

4 – (EYE OPEN)

5 – (EDGE OPEN)

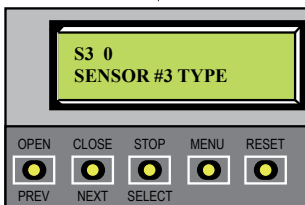
6 – (EDGE BOTH)

7 – (EYE BOTH)



Selections

Same as Sensor 1



Selections

Same as Sensor 1

7

LEARN LIMITS



Hold the OPEN button until the gate slides to full open. Release the OPEN button. Note that if you go too far, you can press CLOSE to reverse direction. Press STOP twice to preserve the open stop location in memory.



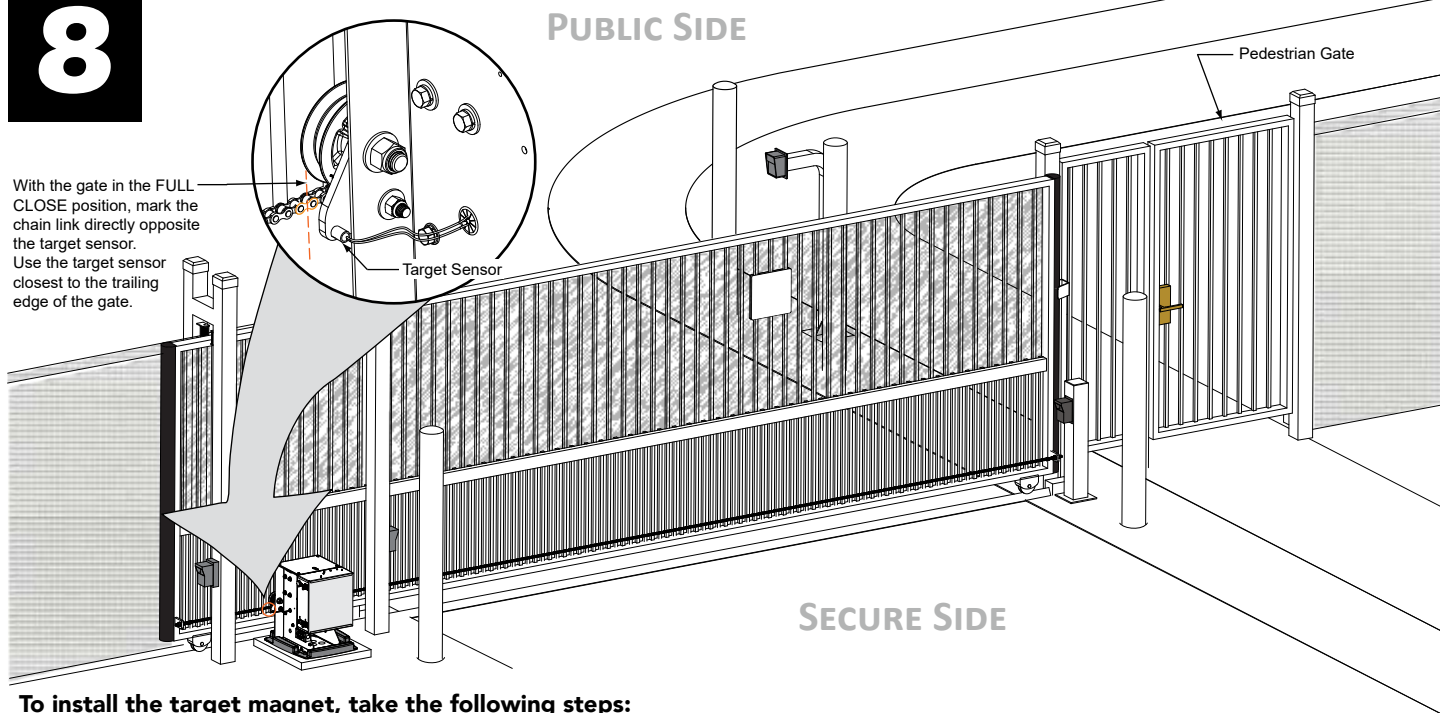
Hold the CLOSE button until the gate slides to full close. Release the CLOSE button and press STOP twice. The full close stop is retained in memory.



NOTE: GATE CLOSED appears on the display and ALERT 15 flashes until the target magnet is installed and its location stored in memory. See page 6, Install the Target Magnet.

INSTALLING THE TARGET MAGNET

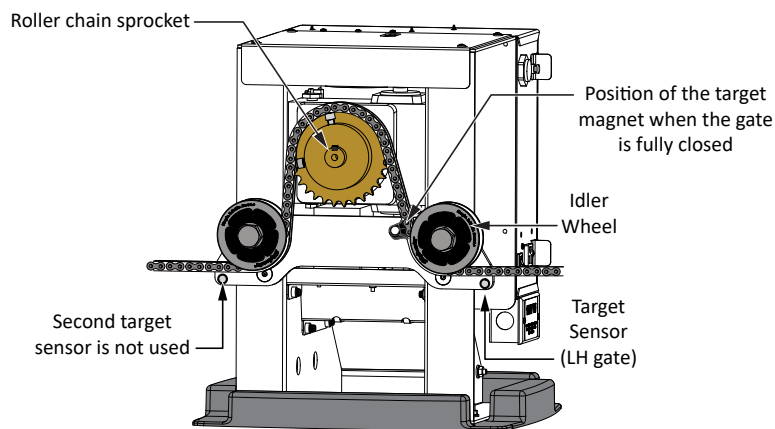
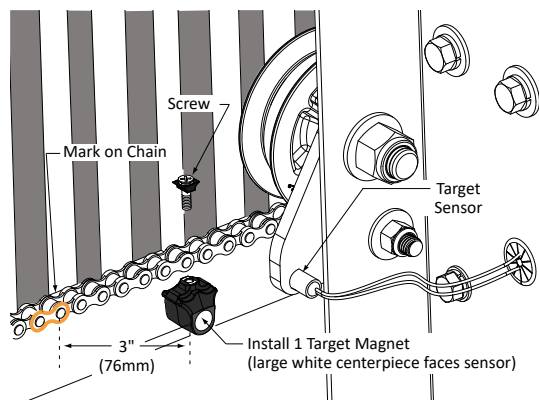
8



To install the target magnet, take the following steps:

1. With the gate closed, mark the chain link as shown in the illustration above.
2. Press the OPEN button to move the gate and chain a few feet and then press STOP.
3. Turn OFF the DC power switch (leave the AC power switch ON). Performing this step keeps the gate from moving accidentally while you install the target magnet.
4. Find the mark on the chain link and count about four (4) fixed links toward the operator (approximately 3 inches, 76mm).

CAUTION When the gate is CLOSED, the target magnet should stop between the target sensor and the roller chain sprocket.



5. Remove the screw from the target magnet.
6. Fasten the target magnet to the chain link as shown in the illustration. Insert the screw and tighten it securely. To avoid damage to the idler wheel, the head of the screw must be flush with the chain rollers.
7. To allow gate movement, turn ON the DC power switch.
8. Test the application of the target magnet by pressing the CLOSE button. An audible beep is heard the first time the target magnet passes the target sensor. The limit sensor light on the Smart DC Controller also flashes red.

NOTE: Use one target magnet and make sure the target magnet activates. Toggle both power switches OFF and ON. The gate will move. When the target magnet passes the target sensor, limits are automatically restored. If LEARN OPEN appears on the display, the limits need to be re-established. Return to step 6 on page 5.

VERIFY POWER IS OFF, AND THEN CONNECT AC WIRES

9

TURN POWER OFF

! DANGER Turn OFF AC power at the source (circuit breaker panel) before accessing the wires in the SlideSmart junction box. Follow facility Lock Out / Tag Out procedures. Make sure both the DC and AC power switches are in the OFF position.

! WARNING DO NOT connect the 115VAC service outlet to 208/230VAC power supply wires. To use the 115VAC service outlet on a 208/230VAC installation, the electrician needs to run an extra neutral wire to the operator from the power source and wire the service outlet per code.

Place the power switches in the OFF position

Service outlet

115 VAC wires for the service outlet

Junction box cover and label

High voltage protection cover

If power input is 208/230V, move the switch so 230V appears and change the label on the junction box

Voltage selector switch is factory set to 115V.

CONNECT THE POWER WIRES

1. Unscrew the two Phillips-head screws.
2. Remove the cover to the junction box.
3. Connect the AC power and ground wires with wire nuts.

! CAUTION Wiring of gate operators must conform to NEC standards and comply with all local codes.

! CAUTION When connecting to 208/230VAC on the AC power, the voltage selector switch on the AC power board must be moved to the 230V position of damage to the operator will occur and void the limited warranty.

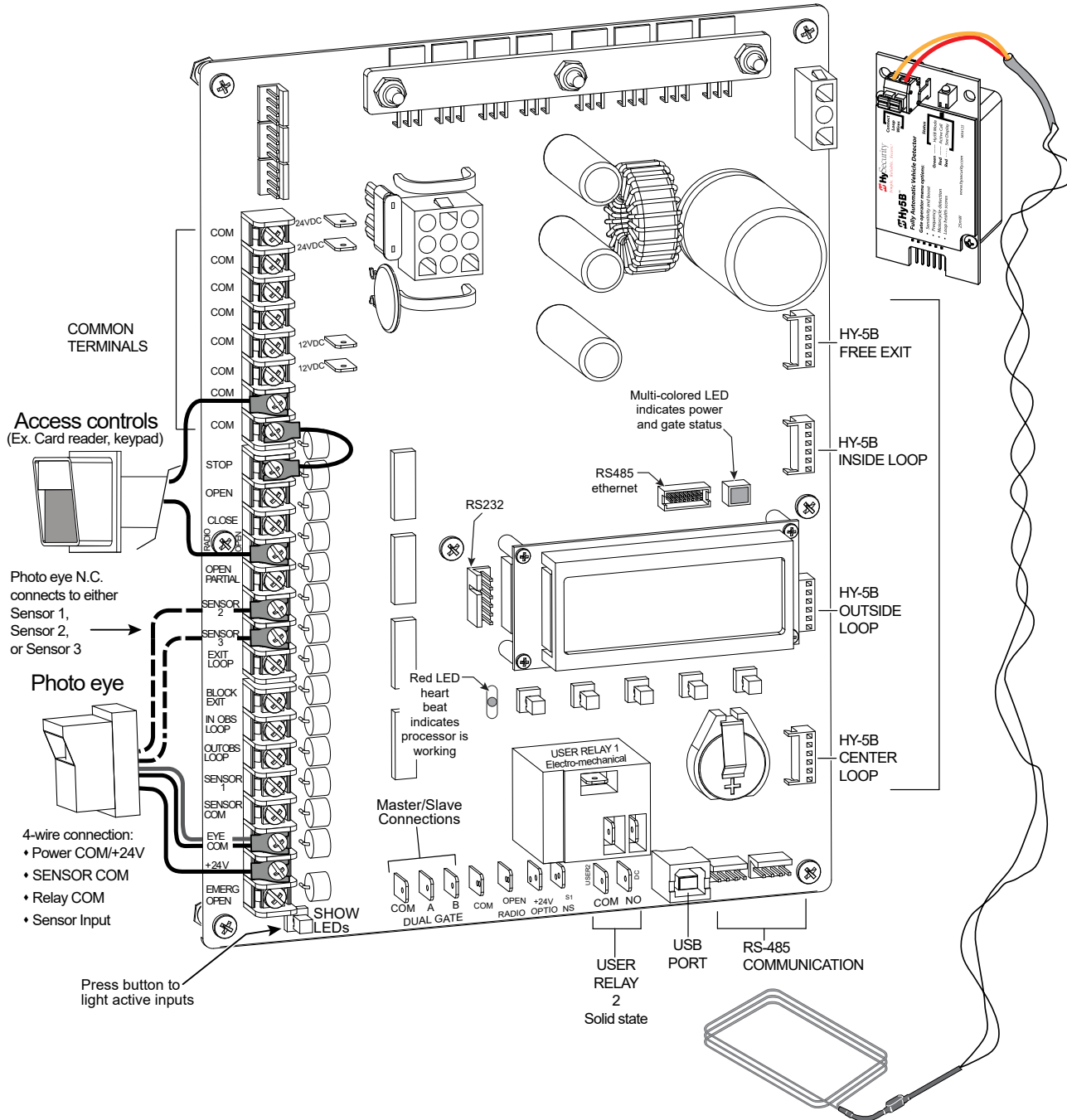
10

CONNECT ACCESSORIES

All the accessories require a minimum of two connections on the Smart DC Controller:

- an input
- a Common Bus Terminal (COM)

Other sensors may require more connections or configurations. For example, the Fire Department (EMERG OPEN) input requires a +24-volt input. The connection must be activated by changing the settings through the Installer Menu. Refer to the SlideSmart DC Installation and Reference Manual.



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EDGE SENSOR INSTALLATION

1. Using an electric drill with six self-tapping screws, align and secure three edge sensor channel segments along gate operator "draw-in post" above the junction box. See A.
2. Drill one self-tapping screw through the bottom end of the channel segment closest to a junction box. See B.
3. Slide the edge sensor through the three channel segments. See B.

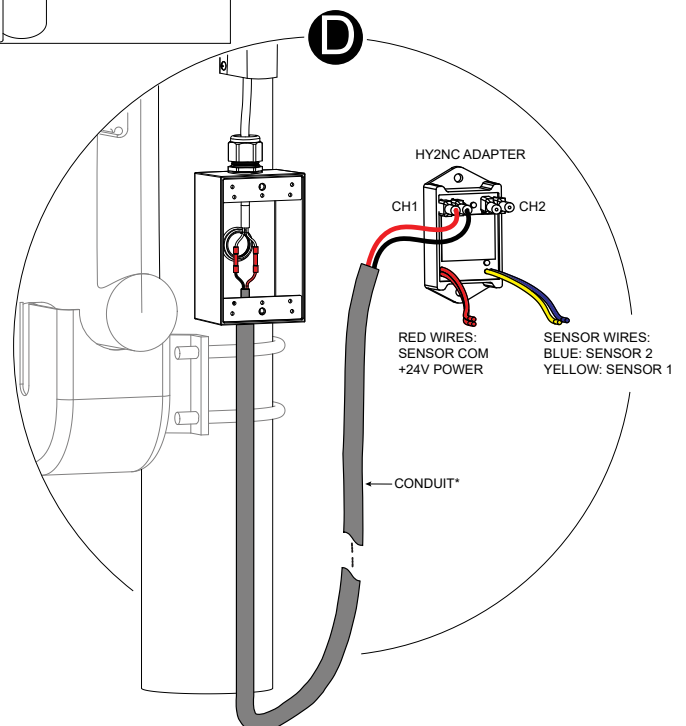
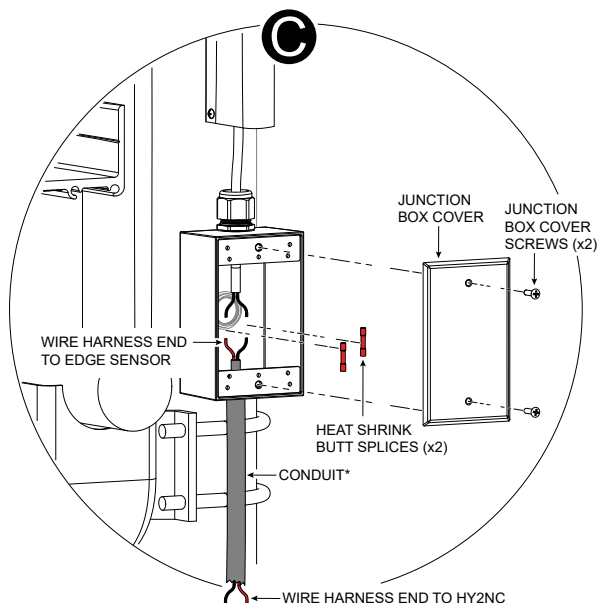
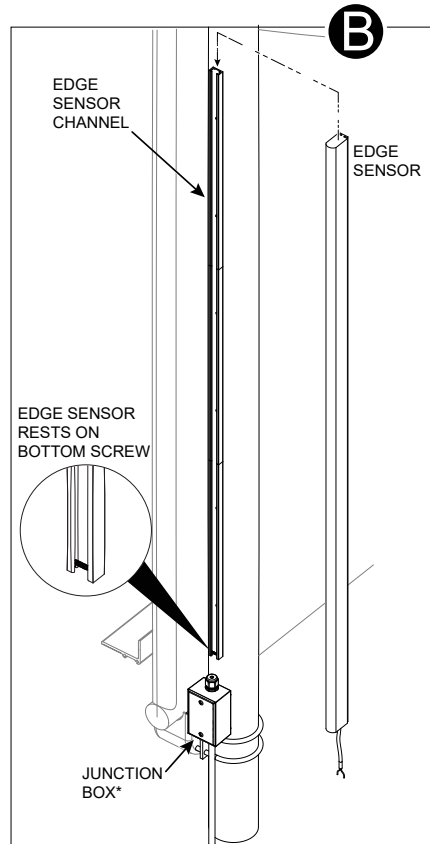
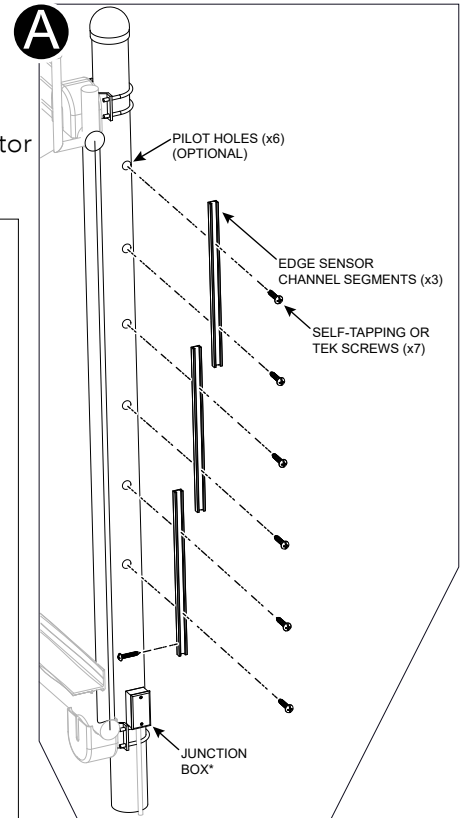


NOTICE

The screw inserted at the bottom end of the channel segment closest to the junction box prevents the edge sensor from sliding in the channel.

WIRING EDGE SENSOR INSTALLATION

1. Route the edge sensor wire and direct burial wire into the junction box. The other end of the direct burial wire is routed through the conduit side of the junction box leading to the HY2NC adapter in the operator control box. See C.
2. Using two 20-18 AWG heat shrink butt splices, connect the edge sensor and direct burial wire.
3. Connect direct burial wire to either HY2NC CH1 or CH2 terminal connections. See D.
4. Install photo eyes and set Sensor Inputs #1, #2, and #3.



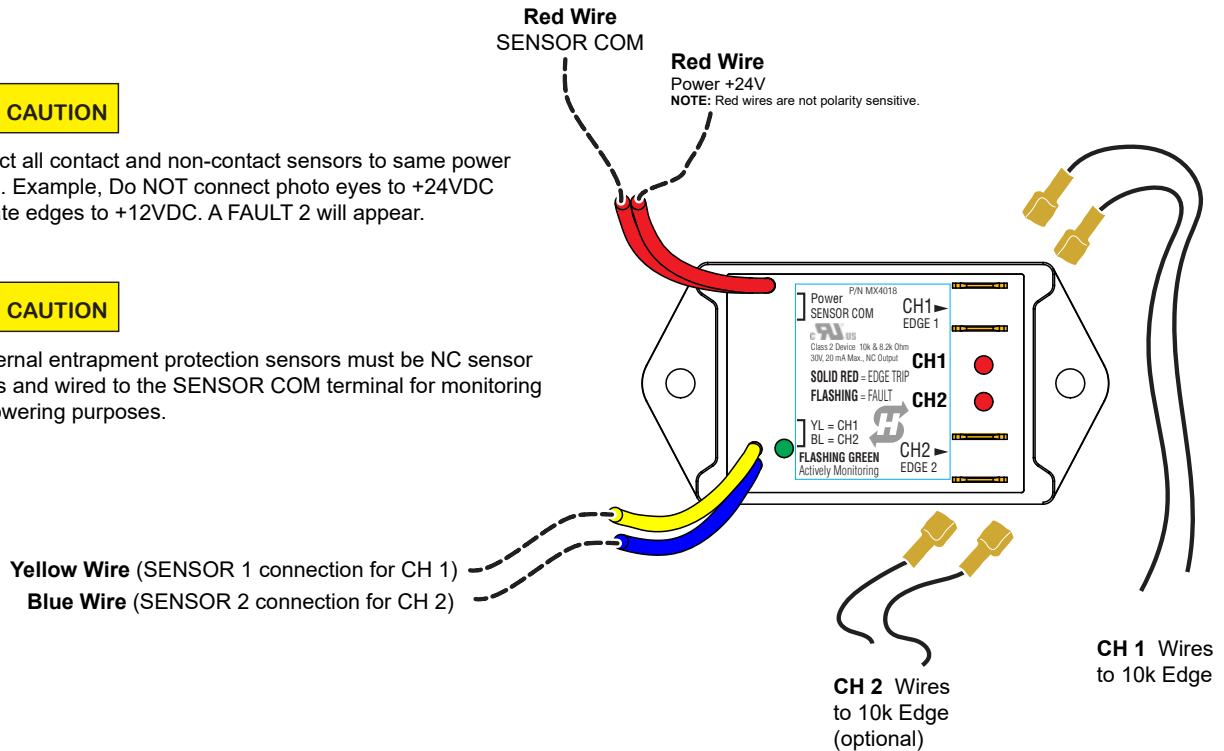
HY2NC AND IRB MON PHOTO EYE



Connect all contact and non-contact sensors to same power source. Example, Do NOT connect photo eyes to +24VDC and gate edges to +12VDC. A FAULT 2 will appear.



All external entrapment protection sensors must be NC sensor outputs and wired to the SENSOR COM terminal for monitoring and powering purposes.



HY2NC Wiring Diagram



Set DIP Switches
1 = OFF
2 = OFF
3 = OFF
4 = ON

NOTE: DIP switches must be set as shown otherwise the photo eye will not operate correctly.

Jumper POWER INPUT
- 24V to COM in Receiver



RED → +24V
BLACK → COMMON / NEG. to SENSOR COM
WHITE → NC RELAY to SENSOR 3



DIP switches must be set as shown otherwise the photo eye will not operate correctly. If you receive an Alert, "!ACTION BLOCKED" "Photo Eye Open" PEO or "Photo Eye Close" PEC, take steps to align the photo eye.

EMX IRB MON Photo Eye Transmitter



RED → +24V
BLACK → COMMON / NEG. to SENSOR COM

IRB MON Photo Eye Wiring Diagram