4: WIRING

Definitions:

A & B Sides - If standing between the two units and Facing the unit with the Key, Left is "A" and Right is "B." (see diagram at right for detail)

Door Prop function - Monitors Door input for a held open door. Goes into Alarm if door is not closed within 10 seconds, unless another Valid User input is seen.

ACS - Access Control System

Output Relays: (Output contact rating: 1 Amp)

Mag Lock Relay - Can be used to control an Electric Lock in response to a Valid User input. Form C (held 5 sec)

Alarm Relay - Connect to remote equipment to monitor Alarm conditions. (Alarms Include: Tailgater, Door Prop, Loiter, and Tamper conditions) Changes state RELAYS to indicate Alarm. Form C (2.5 second minimum duration) MAG LOCK RELAY

Door Relay - Connect to remote equipment to monitor Door Status. Form C (Follows Door Input)

"A" & "B" Passage Complete - These relays change state upon valid passage of a user from the A or B side. Used to monitor for Time and Attendance by remote equipment. Form C (held 1 sec)

- Inputs: (all Inputs share 2 common GNDs on connector)
 - Valid "A" Card N/O contact from ACS that momentarily closes to indicate a Valid User approaching from the "A" side.*

COMPLETE RELAY Valid "B" Card - N/O contact from ACS that momentarily closes to indicate a Valid User approaching from the "B" Side *

* Enable Free Passage by shorting input for Valid A or B Card.

Bypass - N/O contact that enables Bypass when closed. Resets alarm. Same function as Key Switch.

Door - Closed Loop from Door when Door is closed. Optional, used for Door Prop monitoring and enhanced TDS operation.

Power - 12-24 VDC@ 500 mA (1 Amp supply suggested)

REMOTE DISPLAY CONNECTOR:

Optional. Refer to ES5200-R1 or R2 Instructions

SETUP and TEST

Switches: (as shown on drawing)

- 1) **Door Prop Enable** Turns on the Door Prop function when placed in the ON position.
- 2) Beep Disable Turns Off the Valid Card beep when placed in the ON position.
- 3) Bi-Direction Card Enable - Allows an A card input to pass in either direction when placed in the ON position.
- 4) Card Stacking Disable Requires a Valid User to pass, or time out, prior to accepting another card input.

Key Switch on Upper Cover - Use to Bypass the unit (held) or to Reset an alarm (momentary).

Pushbuttons: (as shown on drawing)

To Calibrate : Install lower covers. Verify clear beam path. Apply Power. Press Calibrate Button.

Keep beam path clear until Calibrate LED is ON (up to 60 sec). That's all it takes to set up!

NOTE: If Tamper is enabled alarm may sound if cover is removed

A & B Card buttons - Press to simulate an A or B - Card input (respectively) for test and troubleshooting purposes.

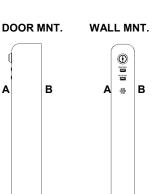
LEDs:

Calibrate : On - Calibrated. Flashing - Beam interruption or Calibration required. Off - During Calibration. Inputs : Respective LED will illuminate when a closure is seen on any Input (A Card, B Card, Bypass, Door)

Upper Cover : See "ES5200 ENTRY SENTRY - USER INSTRUCTION"

Sensitivity: (as shown on drawing)

Clockwise: Increase Sensitivity - Reduce loiter time to 3 sec (min), improved step-over/crawl-under detection Counter-Clockwise: Decrease Sensitivity - Increase loiter time up to 10 sec, reduce step-over/crawl-under detection.



TRANSMITTER

1. DOOR PROP ENABLE 2. BEEP DISABLE

GND

GND

OOR 12-24 VDC

BYPASS

POWER

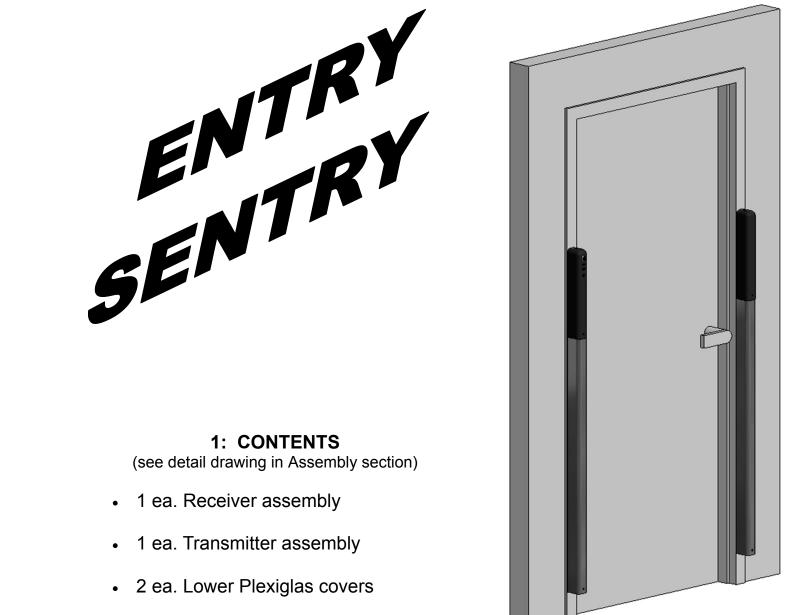
SENSITIVITY ADJUSTMENT

3. BI-DIRECTION CARD ENABLE 4. CARD STACKING DISABLE

SWITCHES

0 - + 12-24 VDC - POWER





- 2 ea. Upper Plexiglas covers
- 1 ea. Hardware Kit
- Installation Instructions (this document)

CLEANING - Soft damp cloth, mild soap solution. Dry with soft cloth. Avoid using paper as this may damage the optical surface. DSI recommends: Chemtronics® ES1668 www.chemtronics.com

CALIBRATE BUTTON move to enable)

RECEIVER

N/O

COM N/C

N/O

COM N/C

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N/O COM

ALARM RELAY

DOOR RELAY

RELAY

A PASSAGE COMPLETE

BPASSAGE

REMOTE DISPLAY

A CARD BUTTON

B CARD BUTTON

A CARD LED -

B CARD LED BYPASSLED

DOOR LED

.....

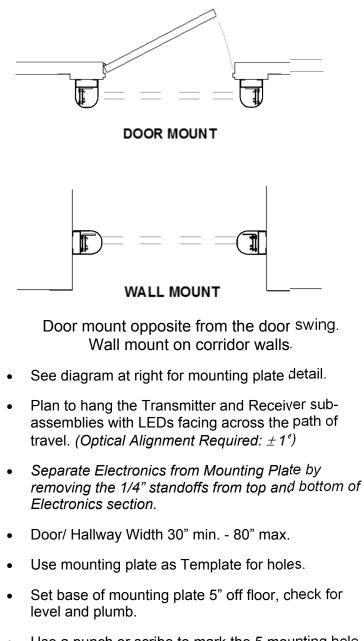
(enlarged drawing on insert)

INS-5200 140401

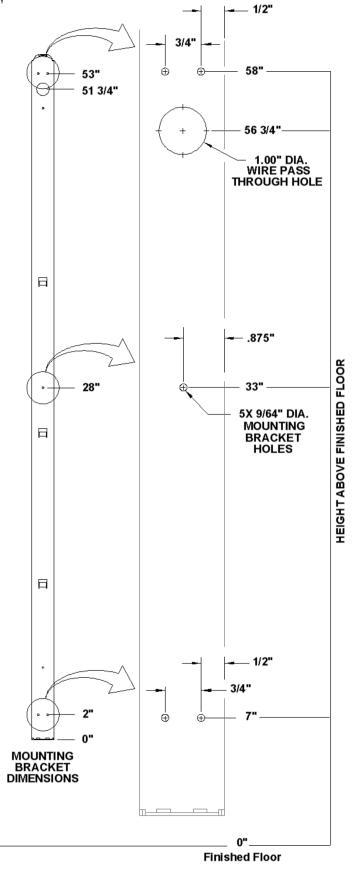
ES5200—ENTRY SENTRY TAILGATE DETECTION SYSTEM

2: PHYSICAL INSTALLATION

Entry Sentry may be mounted both on a β or frame, or onto facing walls of a hallway.



- Use a punch or scribe to mark the 5 mounting hole locations on surface at 7", 33", and 58" from floor.
- Mark Wiring Hole center at 56 3/4" from floor.
- Set mounting plate aside.
- Drill 5 mounting holes as needed for your mounting DIMEN surface. (max. dia. 9/64")
- Drill a 1" wiring hole.
- De-burr Wiring Hole with file to prevent damage to wiring insulation.
- Install mounting plate using appropriate hardware for your mounting surface.



3: ASSEMBLY

- Pull Wiring through each mounting plate's hole. *(see Connection Planning Table below)*
- Power, Control and Monitoring wires on Receiver side.
- Power wires on Transmitter side.
- Hang **Transmitter** and **Receiver** electronics on each mounting plate so that **LEDs face each other** across the portal that users will pass through.
- Fasten with a **1/4**" **Hex Standoff** at top and bottom of each electronics package.
- Install Lower Covers and fasten with screws from Hardware Kit. (Middle screw will be removed after setup to complete Upper Cover installation)
- Connect Key Switch/LED Connector from Receiver Upper Cover (Red wire to left)
- Leave **Receiver Upper Cover** off until Wiring and Setup are complete.

	INPUTS (N	/O Shared Gnd)	# of Wir
CONNECTION PLANNING TABLE	Valid "A" Card		2 (22 ga
	Valid "B" Card		2 (22 ga
	Bypass		2 (22 ga
	Door Switch		2 (22 ga
	Power 12-24 Vdc @ 500mA	Sender	2
		Receiver/Control	2
	OUTPU	TS Form C	1 Amp
	Mag Lock Relay		2
	Alarm Relay		2
	Door Relay		2
LE	"A" Passage Complete		2
	"B" Passage Complete		2

• Repeat for second mounting plate.

