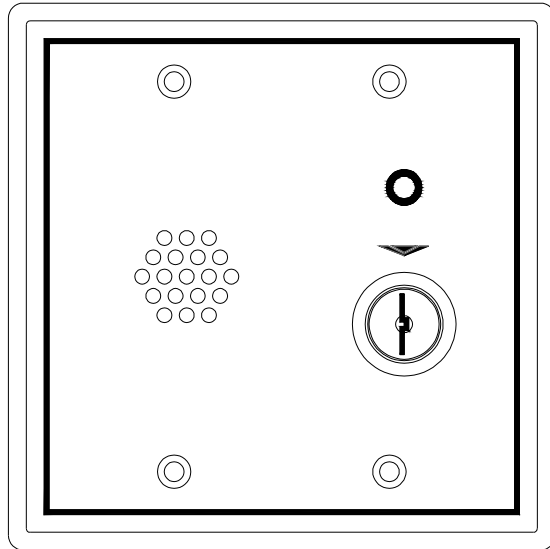


FOLLOW THE STEP BY STEP CONFIGURATION FOR EASY INSTALLATION



ES4200-K1

The DEFAULT SETUP is for Access Controlled, and Emergency Exit applications.

- This unit may be connected to power and a closed-loop Door Input and be ready to work immediately for the Default application.
- A Voltage Sense input used with a Mag-Lock, and/or a N/C Dry Contact Shunt input will require additional jumper configuration (J2 and/or J3 respectively) and is covered in Step 3.
- The unit is easily configured for a **stand-alone Door Prop application** by removing the Intrusion Detection jumper. (LED will always be Green when Intrusion Detection is disabled.)

Timer Setting Defaults: (Step 4)

- Silent Time 5 seconds;
- Alarm Delay Time 5 seconds
- Auto Reset Time 5 seconds
- Shunt Delay 20 seconds

See text for Feature Description and Setup info.

TERMS USED IN THIS INSTRUCTION

N/C DOOR CONTACT - is a "closed-loop" circuit which goes open when the door is opened.

SHUNT INPUT - is a dry contact Valid User Input provided by an Access Control System or a PIR / REX device.

DMA - Door Management Alarm (i.e.: ES4200 series)

Normally Energized - in reference to a Mag-Lock or other locking device where power is removed to unlock.

Normally De-energized - in reference to a Door Strike or other locking device where power is applied to unlock.

FOR TROUBLE-FREE INSTALLATION. VERIFY EACH SETTING & VERIFY ANY UNUSED FEATURES ARE SET CORRECTLY FOR YOUR APPLICATION

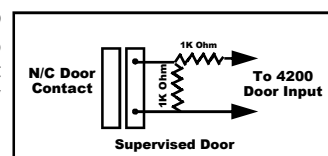
STEP BY STEP Jumpers: ON= short 2 pins;
OFF= one pin only.

1 DOOR, SUPERVISION, AND TAMPER

- Connect N/C Door Contact to TS1 7&8.
- If resistors are installed for Door Supervision:
 - A) place Jumper 1 ON and put resistors at door switch as shown in diagram.
 - B) If unused, leave Jumper OFF and use a closed-loop Door Switch circuit.

DOOR SUPERVISION EXPLAINED

Door Supervision allows the ES4200 to monitor the circuit from the Door Contact for open or shorted wires which may indicate tampering. (via two 1KΩ resistors installed as shown)



- **Tamper Alarm** (cannot be reset or bypassed)
 - A) To Enable feature cut cable tie on Tamper Switch located on standoff (Component Location on reverse).

2 INTRUSION DETECTION

- A) Jumper 4 is ON for Access Control and Emergency Exit Only applications.
- B) Jumper 4 is OFF for Door Prop/Held applications without Access Control.

NOTE: If OFF, LED is Green except during a Door Prop Alarm. If OFF, Go to Step 4-Timer Settings. (Skip Step 3)

4 TIMER SETTINGS SEE TABLE ON REVERSE

- The **SHUNT DELAY TIMER** begins after a Valid User input (prior to door being opened) and **if door is not opened** the DMA will reset when timer expires. Cancels upon door opening.
 - A) Shunt Delay works only with Intrusion Detection enabled.
 - B) See table on Back Plate for Jumper 7&8 setting detail.
- **SILENT TIME SELECT** begins **when the door is opened** by a valid user. (see Timer Setting Table on reverse)
 - A) Timer has **two ranges** selected with Jumper 9;
 - Normal - 0 seconds to 2.5 minutes (Jumper OFF)
 - Extended - 3 minutes to 90 minutes (Jumper ON)
 - B) After selecting appropriate range, turn dial to SET # for the Silent Time period desired for your application.

3 ACCESS CONTROL

- **VOLTAGE SENSE** monitors Lock Power as "Valid User" input on TS1 (3&4)
 - A) If unused, Jumper 2 must be OFF.
 - B) If used, select: Normally Energized (Jumper 2 ON); or, Normally De-Energized (Jumper 2 OFF)

VOLTAGE SENSE EXPLAINED

This input samples the voltage to a Mag Lock (J2 ON) or a Door Strike* (J2 OFF) and accepts a change in voltage as a valid user input. *Normally de-energized.

- **SHUNT INPUT** detects a Dry Contact input for each valid access. TS1 (1&2)
 - A) If unused, Jumper 3 must be ON
 - B) If used, Select:
 - Jumper 3 ON for N/O input; or
 - Jumper 3 OFF for N/C input.

SHUNT INPUT EXPLAINED

This input from a PIR or Access Control system provides user validation.

- **SHUNT RECYCLE** (see description below)
 - A) Jumper 5 is ON
 - B) Jumper 5 is OFF

SHUNT RECYCLE EXPLAINED

- When Shunt Recycle is Enabled (ON), a Shunt Contact or Voltage Sense Input during the Alarm Delay warning period (beeping) will reset the Silent Time Timer. Shunt Recycle gives the User the ability to Hold the door indefinitely by repeating a valid input during each Alarm Delay warning.
- When disabled, only a Key or Bypass input will reset the DMA.

- **ALARM DELAY SELECT** begins **on the expiration of the Silent Timer**. Warning Alarm sounds locally to alert user.
 - A) Turn dial to SET # on table (see reverse) for the time you want the Warning (beeping) alarm to sound (prior to triggering the Door Prop Alarm Horn and Relay).

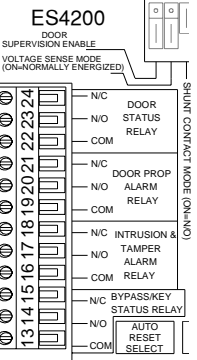
- **AUTO RESET TIME SELECT** is the minimum time the Horn, LED and Relays are on following an alarm condition.
 - A) Turn the dial to SET Timer (0 seconds to 5 minutes, or Manual).

5 POWER

- **POWER** - Connect 12-24 VAC/DC to TS1 11&12. Not polarity sensitive.

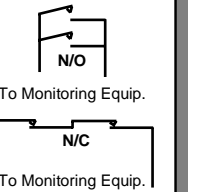
6 OUTPUTS (FORM-C)

- **DOOR STATUS RELAY** TS2-22,23,24 changes state when the Door Input changes. Used to monitor changes in Door Contact status.
- **DOOR PROP ALARM RELAY** TS2-19,20,21 changes state when a door is held open beyond the Silent and Alarm Delay time, combined.
- **FORCED DOOR/TAMPER ALARM RELAY** TS2-16,17,18 changes state when a door is forced or a tamper condition exists (Door Supervision/Tamper Switch).
- **BYPASS/KEY SWITCH STATUS RELAY** TS2-13,14,15 changes state during Bypass (TS1 9&10) and Key Switch Inputs. Used to monitor for changes in Bypass status.



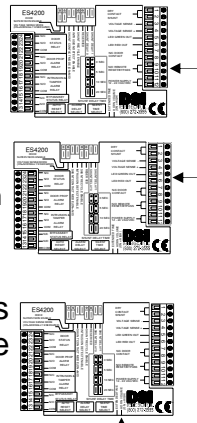
ADDITIONAL OUTPUT INFORMATION

- Each of the Output functions offers the availability of monitoring a Normally Open or a Normally Closed Dry contact.
- Each contact's state will change to follow the status of the monitored function.
- To combine multiple outputs, connect N/O contacts in parallel, or N/C contacts in series. See diagrams at right. The use of any/all Outputs is optional.
- DSI's ES600 (4/8/12) Zone Annunciator series, and Custom Annunciator Panels, offer a turn-key solution for remote monitoring. (such as Security, Nursing, or Management stations, etc.)
- If Power is removed from the ES4200, each contact in it's normal state (powered), will change state. Example: Door Status will appear as if the door has been opened; Alarm and Bypass contacts will appear as if an alarm or bypass condition exists.



7 ADDITIONAL FEATURES

- **BYPASS** TS1 (9&10) input, to N/O contact to remotely Bypass or Reset the unit.
- **REMOTE LED** to TS1 (5&6). (from DSI ES450 with Bi-color LED)
- **HORN VOLUME** - Jumper 10 is used to set the volume of the sounder. ON = 103db
OFF = 96db



COMPONENT LOCATION INFO ON REVERSE