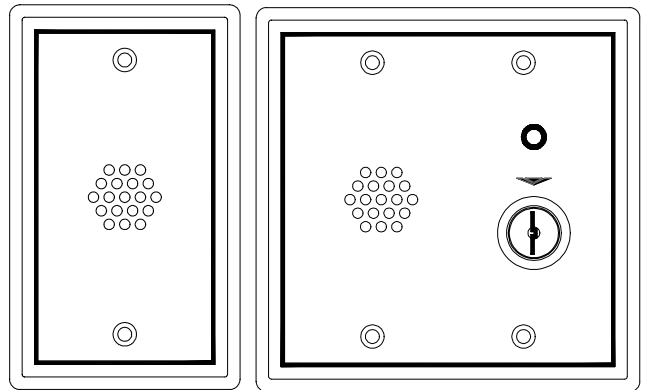


FUNCTIONAL DESCRIPTION:

- The ES411 provides a solution for the common security problem of a Door “Held” or “Propped” open.
- The unit is typically mounted near the monitored door.
- When the door is held open beyond a user adjustable time interval (0-60sec.), the local alarm sounds to advise the door should be closed. Once closed, the alarm silences and the timer is reset.
- A Normally-Closed alarm relay output will open at the end of the preset time interval and reset when the door is closed.



ES411-K0

ES411-K1

- The K1 option includes an LED that is illuminated when the unit is shunted, and a Key Switch to bypass the unit and reset an alarm.

INSTALLATION:

- Place a grounded electrical box at an accessible spot on the wall near the door to be monitored.
- This unit should be protected from direct exposure to moisture, sunlight or other similar elements.
- Connect the box, the cable shield (if available), and the Green ESD ground wire to building Ground.

Note: Using the Green wire and “B” crimp, properly ground the unit to the grounded box. This will prevent damage from electrostatic discharge that will not be covered under warranty.

SPECIFICATIONS:	
Model:	ES411
Power:	12-24 VAC/VDC At 100mA
Adjustment:	Access Period 0-60sec.
Input:	N/C Door Contact Key Switch (K1 model only)
Mounting:	1 gang x 2.5”d elect. box (ES411-K0) 2 gang x 2.5”d elect. box (ES411-K1)
Output:	N/C Alarm Contact rated at 500mA @ 30 VDC LED (K1 Model only) Audible: 80 db @ 3 ft.

- Connect Terminal Connections as follows:
 - #1& 2 to a **12 /24 Volt AC/DC** 100mA power supply. (in-line Diodes for 24 Volt operation only. Remove for 12V)
 - #3& 4 to the **N/C monitored input** dry contact.
 - #5& 6 to the **N/C Alarm Status Relay** output (none of these connections are polarity sensitive)
- Adjust **Alarm Delay** for desired access period (0-60 seconds)
NOTE: Clockwise=Longer Time (see Side View diagram for location of adjustment)

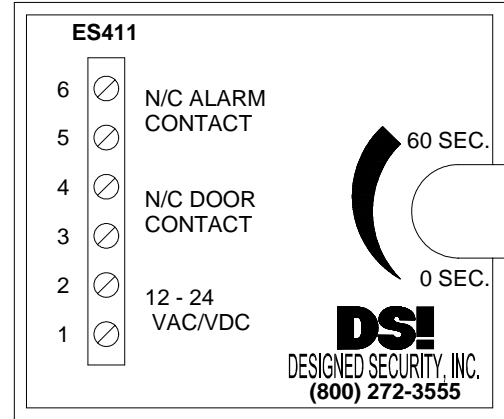
CONNECTIONS:

Header Terminal #

1&2 - Power 12/24VAC/DC @ 100mA
 [NOTE: Use included Diodes for 24 volt operation. Remove them for 12v.]

3&4 - Door Contact N/C Dry Contact

5&6 - Alarm Output N/C Output relay changes state during alarm condition.



Symptoms and Solutions:

Unit goes into alarm, even when door is closed -

- A) Isolate the problem by shorting pins 3&4 on the unit. This will help determine if the Door Contact circuit or the unit itself is causing the alarm.
- B) If it is no longer in alarm, troubleshoot the Door Contact circuit as follows:
- C) Verify the Door Contact is a normally closed contact when door is closed.
- D) Verify the door contact is operating by using an Ohm Meter. Open the door and check for the circuit to change from closed (zero ohms) to open (max ohms) when the door is opened.
- E) Verify that it is connected to the correct terminals on the unit (3&4).

Unit Never goes into alarm -

Verify that the Key Switch is not in Bypass Position. **Key Vertical = Armed - Key Horizontal = Bypassed**

Alarm Output Relay not working-

With Power ON, verify relay operation by disconnecting the wires from Terminal pins 5&6 and placing an Ohm-Meter across those pins. The meter should show zero ohms. Open the door and hold until the unit goes into alarm. The meter should read open (max ohms) across pins 5&6 when the unit is in alarm. If this checks out, verify that the wires going to the monitoring equipment are not damaged.

WARRANTY

The DSI Product you have purchased is warranted to be free of defects in material and workmanship when properly installed, used and maintained according to instructions. DSI will, for a period of one (1) year from the date of purchase, repair or replace any part which, upon our examination, proves to be defective under normal use. DSI and DETEX SHALL NOT BE LIABLE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL LOSS OR DAMAGE ARISING OUT OF THE FAILURE OF THIS DEVICE.