PRODUCT DESCRIPTION

DS!
DESIGNED SECURITY, INC.
A Detex Company

ES4300A
*EXIT ALARM
INSTALLATION
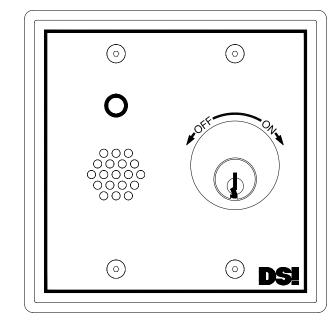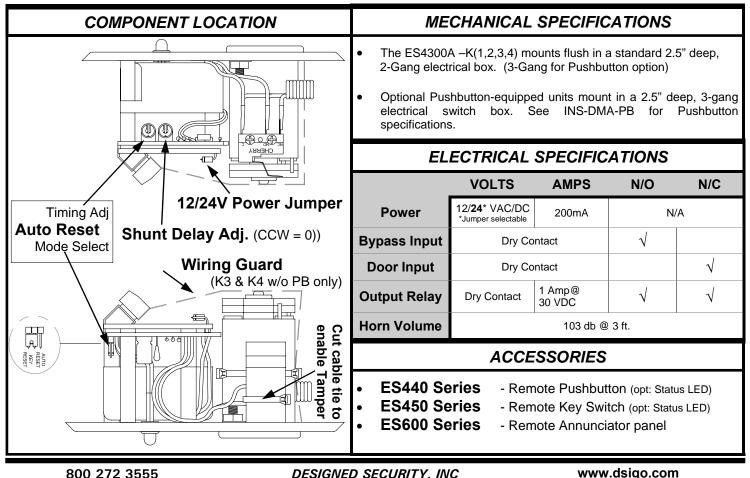INSTRUCTIONS*

- The ES4300A may be integrated with Access Control systems, or applied as a stand-alone solution for monitoring Exit Doors. (Replaces all ES4300 K1 and K2 models)

- **Inputs**: **Bypass/Reset** - N/O Dry Contact;
 Door Contact - N/C

- **Output**: Intrusion/Tamper Alarm Status - Form-C Dry Contacts. **Note:** Cut cable tie to enable Tamper switch.

- **Bi-color LED** shows status. Armed = Red; Bypass = Green

- **LED Output** can power a remote Bi-Color LED to indicate unit status. (ES450 Series Key Switch w/ Bi-Color LED is suggested)

- **Key-Only** (manual) **Alarm Reset** is the default configuration.

- **Auto-Reset** timing may be field configured to reset the audible Alarm and the Output Relay after the Door is closed. (0 to 60 Seconds) Move Jumper to enable Auto Reset.

- **Shunt Delay** adjustable from 0-20 seconds. (Allows door access time after a Key or Bypass input).

- K3 and K4 Option (without Pushbutton) includes a **Wire Guard** over lock hardware.

- Optional **Pushbutton** model on a 3-Gang faceplate. See separate Pushbutton instructions for detail.

ES4300A-K3

COMPONENT LOCATION

Timing Adj
Auto Reset
Mode Select

12/24V Power Jumper

Shunt Delay Adj. (CCW = 0))

Wiring Guard
(K3 & K4 w/o PB only)

AUTO
RESET
KEY
RESET

Cut cable tie to
enable Tamper

MECHANICAL SPECIFICATIONS

- The ES4300A –K(1,2,3,4) mounts flush in a standard 2.5" deep, 2-Gang electrical box. (3-Gang for Pushbutton option)

- Optional Pushbutton-equipped units mount in a 2.5" deep, 3-gang electrical switch box. See INS-DMA-PB for Pushbutton specifications.

ELECTRICAL SPECIFICATIONS

	VOLTS	AMPS	N/O	N/C
Power	12/**24*** VAC/DC *Jumper selectable*	200mA	N/A	
Bypass Input	Dry Contact		√	
Door Input	Dry Contact			√
Output Relay	Dry Contact	1 Amp@ 30 VDC	√	√
Horn Volume	103 db @ 3 ft.			

ACCESSORIES

- **ES440 Series** - Remote Pushbutton (opt: Status LED)
- **ES450 Series** - Remote Key Switch (opt: Status LED)
- **ES600 Series** - Remote Annunciator panel

Auto Reset Jumper

ES4300A

AUTO RESET
KEY RESET

12/24V Jumper

INPUT POWER 12V - 24V

LED GREEN OUT

LED RED OUT

N/C DOOR CONTACT

N/O REMOTE RESET/BYPASS

POWER SUPPLY 12 - 24 VAC/VDC

COM
ALARM RELAY N/O
N/C

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0 TO 20 SEC. 0 TO 60 SEC.
SHUNT DELAY   AUTO RESET

Timing

REMOTE L.E.D. (1&2) [Output]
- Controls a remotely mounted Bi-Color LED. These contacts reverse polarity, dependent upon device status. Output follows Front Panel LED.
- DSI's ES440 Pushbutton or ES450 Key Switch with the Bi-Color LED, may be used to support remote LED and Bypass Input.
- This is usually used on the opposite side of the door, or in a remote location (Guard Station, etc.) to control and annunciate the Bypass Status of the ES4300A.

DOOR (3&4) [Input]
- Connect to Dry Contact at door which is a closed contact when the door is closed. This Input is monitored by the ES4300A to initiate timer, alarm, and reset functions.

BYPASS (5&6) [Input]
- Remote Reset/Bypass Input. This duplicates the Key Switch at a remote location. A N/O Dry Contact closure activates this function.
- It is often used to provide remote control at a guard station, or at the opposite side of a doorway from the ES4300A.

POWER (7&8) [Input]
- Set **Power Jumper** to select appropriate Voltage
- Connect to 12 OR 24 VAC/DC @ 200mA Power Supply.
- Not polarity sensitive.

POWER SUPPLY

INTRUSION/TAMPER ALARM STATUS
Pins 1 (C), 2 (N/O), 3 (N/C)
- This output changes state when the ES4300A goes into Alarm due to a Tamper condition, Door violation, or a Power loss.
- This may be used for remote monitoring equipment requiring a N/O or N/C Dry Contact Input (Form C).

WIRING AND CONFIGURATION

REQUIRED

- Connect a N/C **Door contact** to TS1 - 3 & 4 (N/C when door is closed)

- Connect a 12 or 24 Volt***** AC/ DC (@200ma) **Power** Supply to TS1 - 7 & 8. Not polarity sensitive.
  *Select using Voltage Jumper prior to applying power. (Default = 24V)
- On K3 & K4 models, fold attached **Wiring Guard**** over RIM hardware and then under wires.
  **Prevents wiring from interfering with RIM hardware movement. (not present w/Pushbutton option)

OPTIONAL

- Connect a N/O input to TS1 - 5 & 6, to provide remote **Reset/Bypass** capabilities. (ES450 Series)

- Connect the **LED Output** to a Bi-Color LED for remote status indication. (ES450 Series)

- Connect Remote Monitoring equipment to the N/O, or N/C **Alarm Output**.

- Enable **Tamper Switch** by removing the cable tie holding the switch closed.

- **Auto Reset** or **Key Reset (default)** is selected via Jumper (Auto Reset Timer disabled in Key Reset mode)