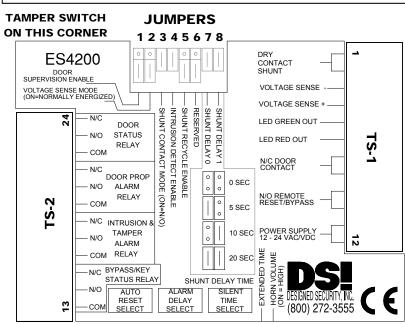
COMPONENT LOCATION DIAGRAM



9 10 JUMPERS TIMER SETTINGS

JUMPER	CONFIGURES		
1 Door Supervision	TS1-7&8		
(Part of Tamper circuit)	Door Input		
2 Voltage Sense Mode (Senses Lock Voltage as Valid User Input)	TS1-3&4 Voltage Sense Input		
3 Shunt Contact Mode (Senses Dry Contact as Valid User Input)	TS1-1&2 Shunt Contact Input		
4 Intrusion Detect Enable	Intrusion or Free		
(Explained on reverse)	Access selection		
5 Shunt Recycle Enable	Shunt Recycle		
(Explained on reverse)	feature selection		
6 RESERVED	Factory Use Only		
(Factory Diagnostic)	Leave Jumper OFF		
7 & 8 Shunt Delay Timer	Access Time prior to		
(Set same as Lock Time)	opening door		
9 Extended Time	Select Ext. Silent Time 03-90 Min.		
10 Horn Volume	Select 96db or 103db		

TAMPER CIRCUIT - Alarm is not reset with key.

- TAMPER SWITCH Switch is located on stand-off under spring steel actuator. (Cut cable tie to Enable switch)
- DOOR SUPERVISION Enable with Jumper 1. Requires resistors on Door Switch. (Schematic on reverse)

TIMER SETTINGS TABLE								
SIDE VIEW								
SET	-	SILENT TIME SELECT (Extended Silent Time Jumper)			ALARM DELAY TIME	(AUTO RESET TIME	
	Ju	RMAL Imper DFF	EXTEN Jump ON	per	SELEC	T	SELECT	
0	0	Sec	3 M	in	0 Sec		0 Sec	
1	3 Sec		3.5 N	∕lin	3 Sec		3 Sec	
2	5	Sec	4 M	in	5 Sec		5 Sec	
3	7	Sec	4.5 N	∕lin	7 Sec		7 Sec	
4	10 Sec		5 M	in	10 Sec		10 Sec	
5	12 Sec		6 M	in	12 Sec		12 Sec	
6	15 Sec		7 M	in	15 Sec		15 Sec	
7	20) Sec	8 M	in	20 Sec		20 Sec	
8	25	5 Sec	9 M	in	30 Sec		30 Sec	
9	30 Sec		10 N	/lin	45 Sec		45 Sec	
А	35 Sec		20 N	/lin	1 Min		1 Min	
В	45 Sec		30 N	/lin	2 Min		2 Min	
С	1 Min		40 Min		3 Min		3 Min	
D	1.5	5 Min	Min 50 Min		4 Min		4 Min	
E	2	Min 60 M		/lin	5 Min		5 Min	
F	2.5	5 Min	90 N	/lin	INFINITE		MANUAL	
		ELEC		SPECIE	FICATIONS			
		VO	LTS A		AMPS	N/	O N/C	
Power	·	12-24 \	/AC/DC	2	50mA	N1/A		
Voltage Se	12-24 \	/AC/DC	15mA	N/A				
Shunt In	hunt Input Dry Co					Ju	Jumper Select	

Horn won't Reset	- Verify Tamper Switch is closed; \ Check Door Contact Resistors are in
LED always Green	 Normal condition when Jumper 4 is are correct for your application; Verif
Alarm when Door Opens	 Verify that S0&S1 Jumpers and Sile is set correctly for application.
Clicking Output Relays	- Verify Jumper 6 (Reserved) is OFF.

OPERATION

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VALID ACCESS / PROPPED DOOR OPERATION

ARMED STATE - Red LED (Green if Intrusion Detect is Off) VALID USER INPUT - Shunt or Voltage Sense Input LED - Changes to Green DOOR - Opened by user, Silent Timer begins DOOR - Closed by user, Returns to Armed State, or SILENT TIME TIMER - expires, then AUDIBLE WARNING - Beeps to alert user locally LED - Flashes Green DOOR - Closed by user, returns to Armed State, or* **SHUNT RECYCLE** 2nd Valid User Input (*if enabled) SILENT TIME RESET - Silent Timer begins again DOOR HELD/PROPPED - Alarm Delay Times out LED - Flashes Red AUDIBLE - Constant tone, Auto Reset Timer begins OUTPUT - Door Prop Alarm relay toggles **DOOR CLOSED -** After Door Prop Alarm exists AUDIBLE - On until Auto Reset (AR) Time expires LED - Flashes Red for AR Time OUTPUT - Relay held for duration of AR Time

INTRUSION OPERATION

ARMED STATE - Red LED DOOR Opened by invalid entry LED - Flashes Red AUDIBLE - Constant tone, Auto Reset Timer begins OUTPUT - Intrusion/Tamper Alarm relay toggles DOOR CLOSED LED - Flashes for duration of AR Time AUDIBLE - Continues for duration of AR Time OUTPUT - Changed for duration of AR Time **REARM** - After AR time expires OR by Manual reset

TAMPER OPERATION

LED - Red (Armed State)

ARMED STATE - Red LED (Door Supervision Enabled) TAMPER (Door circuit open/shorted, or if unit is removed from wall) LED - Flashing Red AUDIBLE - Constant tone OUTPUT - Intrusion/Tamper Alarm relay toggles **RESET** - Door normal, and Tamper switch closed LED - Red (Armed State)

Optional Pushbutton-equipped units mount in a 2.5" deep, 3-gang electrical switch box. See INS-DMA-PB for Pushbutton specifications. (Not available with K3; K4 key option)

ES4200-K3 and -K4 (RIM hardware) requires a 2.5" deep,

Dry Contact

Dry Contact

Dry Contact 1 Amp@ 30 VDC

MECHANICAL SPECIFICATIONS

The ES4200 -K0 & K1 mounts flush in a 2.5" deep.

2-Gang electrical switch box.

3-Gang electrical switch box.

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Bypass Input

Door Input

Output Relays

800 272 3555 Fax 512 321 9181

TROUBLESHOOTING TIPS

is closed; Verify Door Supervision Jumper is correct for application; esistors are installed as per Step 1 if Door Supervision is enabled. Jumper 4 is OFF; Verify Shunt Contact & Voltage Sense jumpers

lication; Verify Key Switch is Vertical and Bypass Input is open.

pers and Silent Time are set greater than 0 sec.; Verify Intrusion Jumper cation.

FUNCTIONAL DESCRIPTION

INPUTS

The inputs are located on Terminal Strip –1 and include:

- Dry Shunt Input a N/O or N/C Dry Contact, selected using Shunt Contact Mode Jumper 3. See Step 3
- Voltage Sense Monitors the power wires on an electric lock (i.e.: Mag-lock or Door Strike). Senses change in voltage as valid user. See Step 3.
- **Door** a Closed Loop (N/C) Dry Contact which opens when the monitored door opens. See Step 1.
- Bypass Connect to a N/O Dry Contact from a remote location to bypass the unit. See Step 7.
- Power 12 to 24 VAC/DC @ 250 mA. The terminals are not polarity sensitive. See Step 5

TIMERS

- Silent Time "Open Door" Time 0-2.5 min. in standard mode, 3 - 90 min. in Extended mode (selected by Jumper 9).
- Alarm Delay "Warning" Time 0-5 min. and "Infinite." Local • Beeping Warning Audible sounds during this time.
- Auto Reset "Alarm" Time 0-5 min. and Manual Reset. Constant Alarm Audible sounds during this time.
- Shunt Delay Valid Access Time prior to reset if Door is unopened. 0, 5, 10, or 20 seconds (set with Jumpers 7 & 8).

OUTPUTS

- Remote LED (located on TS-1) Output for a remote Bi-color LED, output follows LED on Face Plate.
- Door Contact Status follows the Door Contact Input, regardless of alarm or bypass condition.
- **Door Prop Alarm Status** changes state during a Door Prop (Door Held) Alarm condition.
- Intrusion/Tamper Alarm Status changes state during an Intrusion or Tamper Alarm condition.
- Bypass/Key Switch Status follows Bypass and Key inputs. ٠ Output contacts change state when power is lost.

OTHER FEATURES See Step 3.

- Shunt Recycle -
- **Door Supervision -**
- Intrusion Detect -

See Step 2. See Step 7.

- Loud Horn Volume -Extended Silent Time -
- Shunt Delay Timer -
- See Step 4. See Step 4.

See Step 1.

OPTIONAL ACCESSORIES

ES440 Pushbutton; ES450 Key Switch; ES600 Annunciator

www.dsigo.com Email: dsi@dsigo.com

