Delayed Egress System EDR 101 Installation Instructions

1. Seek prior approval from local life safety officials prior to installing a delayed egress locking system. Note: All life safety and electric codes must be strictly followed.
2. Identify all equipment to be installed and inspect for any damage that may have resulted during shipping. If damage is found, notify the carrier immediately and arrange for inspection.
3. Run all fire alarm wires.
4. Determine locations of EDR 101 panels and cut holes in the wallboard as needed. Mount surface boxes if necessary.
5. Mount the lock in strict accordance with Dortronics Systems instructions.
6. Mount magnetic door contacts on the swing edge of the door.
7. Route all wires into the exit panel.
8. Prepare all wire for connection to the EDR 101 panel.
9. Make all wiring connections as described on the following pages.
10. The facilities fire alarm service company should now make connection to the fire alarm panel. Note: Each EDR 101 exit will require a normally open (dry contact) fire alarm relay in the fire alarm panel.
11. Plug in all power supplies and plug in all batteries on the EDR 101 panels. The green LED on the EDR 101 panels should light and the doors should be armed.
12. Test all functions of the EDR 101 panel for proper operation. See programming and test sections of this manual.
13. Test the fire alarm interface connections by placing the fire alarm system into an alarm mode. All locks should immediately release.
14. The system is now operational.

EDR 101 Delayed Egress Theory of Operation

The EDR 101 panel is in the alarm mode, apply constant pressure to the door for 3 seconds. An audible alarm will sound from the EDR 101 panel. and the lock will release 12 seconds after the EDR 101 panel begins the audible alarm. The pressure applied to the door to initiate the delayed egress cycle shall not exceed 15 pounds. After the lock has released, a manual reset, using the keypads of the EDR 101 shall be the only means to allow the lock to reset.

EDR 101 System Theory of Operation

The EDR 101 system is in the secure mode. The Green LED should be on and the door secured by the lock. To access the door without sounding the alarm, enter the escort code and the green LED should turn off and the red LED should turn on. When the red LED turns on, exit through the door. When the door closes the red LED should turn off and the green LED should turn on. The door should be in an armed mode once again. Unauthorized attempts to exit should result in the delayed egress alarm sounding, alerting staff to the unauthorized exit attempt.

EDR-SYSTEM 101: PANEL CONNECTIONS

FOR USE WITH EGRESS BAR SWITCH

TO FIRE ALARM PANEL A NORMALLY OPEN DRY CONTACT RELAY MUST BE USED FOR FIRE ALARM CONNECTION

*NOTE UP TO 8 EDR 101
PANELS CAN BE CONNECTED
TO ONE FIRE ALARM RELAY
THE PANELS MUST BE WIRED
IN PARALLEL TO THE
FIRE ALARM RELAY

EACH PANEL REQUIRES A
SEPARATE RUN TO THE
FIRE ALARM RELAY

MODEL # 6101

OPTIONAL REMOTE KEYPAD

REFER TO THE x FOR PROPER ALIGNMENT OF THE RIBBON CABLE CONNECTOR

X

OPTIONAL PUSHBUTTON,

KEY SWITCH OR ANY
DEVICE WHICH PROVIDES
A DRY CONTACT CLOSURE
WHEN ACTIVATED.

**NORMALLY CLOSED
DOOR POSITION SWITCH
*MUST BE INSTALLED FOR
SYSTEM TO OPERATE***

MODEL # 6410-S15

EGRESS BAR W/SWITCH	N.C.	BLACK
MUST BE WIRED IN	C
NORMALLY OPEN CONFIGURATION	N.O.	WHITE

DPS

X

**15 FOOT
RIBBON CABLE SUPPLIED**

**TRANSFORMER
PLUG INTO
110VAC**

**LOCK POWER
12VDC**

**REMOTE KEYPAD
CONNECTOR**

**TRANSFORMER
PLUG INTO
110VAC**

**EDR-SYSTEM 101
PANEL POWER
9 VDC**

EGR   P B   FIRE DOOR

NC
C
NO
NC
C
NO
NC
C
NO

TIMED RELAY OUTPUT:

CHANGES STATE UPON ACTIVATION OF
PM PROGRAM, VALID RESET, OR
PUSH BUTTON INPUT

ALARM RELAY OUTPUT:

ACTIVATES WHEN THE PANEL
IS IN ALARM MODE

9 VOLT
BATTERY

MADE IN USA