9000 SERIES "ELECTRIC" TRIM INSTRUCTIONS

Specifications

REQUIRES DORMA ES-100 POWER SUPPLY (Use as large of wire as possible when wiring power supply and trim.) Power supply will handle two (2) pieces of electric trim. Supplies 4 amp in-rush.

NOTE: THIS PRODUCT REQUIRES 24VDC.
Continuous Duty .15 amp hold @ 24VDC
See back side for typical wiring diagram.

All electric trim is "09" function. Key removable only when locked.
LFSF - Electric Lock Fail Safe
(Must be ordered per function from factory.)

Use caution during installation so wires do not get pinched. (See details below.)
NOTE: Ref. Template T-9021 for door prep.

Wire Gauge Chart (AWG)
Distance in feet for 2 conductors from power source to the locking device

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Minimum Wire Gauge for 24 V AC/DC

When solenoid is energized, trim remains in un-locked position. If power is interrupted, ie. fire alarm is activated, solenoid is de-energized and trim is set in locked position.

LFSF

When solenoid is energized, trim remains in locked position. If power is interrupted, ie. fire alarm is activated, solenoid is de-energized and trim is set in un-locked position.

OUTSIDE FACE ONLY
RACEWAY REQUIRED
FOR WIRE CONNECTION.
AT POWER CONDUIT.
WIRING SHOULD NOT
PASS THROUGH THE
TOUCHBAR AND RAIL TO
MAKE CONNECTION.
SEE TEMPLATE T-9021
This is a basic wiring diagram, for additional wire diagrams or project specific diagrams contact the DORMA technical service department at 1-800-523-8483.

**DORMA MODEL ES100**

**24 VOLT DC POWER SUPPLY**

**ZONE 1**
- **OUTPUT TERMINALS**
- **CONTROL SWITCH**
- **TO N.C. CONTACTS IN FIRE ALARM CONTROL PANEL**

**ZONE 2**
- **OUTPUT TERMINALS**
- **CONTROL SWITCH**
- **NO CONNECTION**

**FUSE**
- **3/4 AMP 120VAC**
- **3.0 AMP 24VDC**

**PUSH TO RESET**
- **CIRCUIT BREAKER**

**CAUTION:**
TURN OFF 120VAC POWER PRIOR TO MAKING ANY CONNECTIONS TO TERMINALS.

**From UPS**
Power Source:
- **120 VAC**
- **POWER LINE** (1.0 AMP MAX.)

**TO**
N.C. CONTACTS IN FIRE ALARM CONTROL PANEL

**WHITE** (NEUTRAL)
- **BLACK** (HOT)
- **GREEN** (GROUND)

**Power Source From UPS**
- **120 VAC**
- **(1.0 AMP MAX.)**

**LFSC**
When solenoid is energized, trim remains in un-locked position. If power is interrupted, ie. fire alarm is activated, solenoid is de-energized and trim is set in locked position.

**LFSF**
When solenoid is energized, trim remains in locked position. If power is interrupted, ie. fire alarm is activated, solenoid is de-energized and trim is set in un-locked position.
ES105 LOCATION
DOOR MANUFACTURER
MUST PROVIDE 3/8" MIN.
RACEWAY THROUGH DOOR
TO ALLOW FOR ELECTRICAL
WIRES, BETWEEN DOOR
EDGE AND OUTSIDE TRIM.

OUTSIDE FACE ONLY
FOR LFSF TRIM

VERTICAL
REF. 2 3/4"
(70 mm)

EDGE OF DOOR

1 1/2"
(38 mm)

3/8" (9 mm) DIA.
HOLE THRU DOOR.
(4) PLACES

3/4" (19 mm)

7 1/2"
(190 mm)

3 3/4"
(95 mm)

OUTSIDE FACE
ONLY FOR LFSC TRIM

FINISHED FLOOR LINE OR TOP OF THRESHOLD

NOTES:
1. SEE MASTER SHEET #T-0001 FOR SUGGESTED
   DOOR REINFORCEMENT.
2. SEE ADDITIONAL TRIM TEMPLATE WHEN REQUIRED.

REV. No. 1  REVISION:  DATE: 4-8-09

DORMA

Y09 LFSC OR LFSF FUNCTION
ADDITIONAL RACEWAY PREP

TEMPLATE NUMBER
T-9021

ALWAYS CONSULT DORMA’S WEB SITE FOR LATEST TEMPLATE AT WWW.DORMA-USA.COM OR CALL 1 800 823 8483

1/00