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Options available _______ 8-11
Spotting template _______ 12

Note: One set of instructions should be left with building owner after device has been installed.
**SCREW CHART**

1. **Chassis Mounting**
   - (4) 12-24 x 1" R.H.P.M.S. (Metal or Thru Bolts)
   - (4) #12 x 1 1/4" R.H.P.T.S. (Wood Door)

2. **End Cap Bracket**
   - (2) 12-24 x 1" R.H.P.M.S. (Metal or Thru Bolts)
   - (2) #12 x 1 1/4" R.H.P.T.S. (Wood Door)

3. **Chassis Cover & End Cap**
   - (6) 8-32 x 3/8" F.H.P.M.S.

4. **Strike Mounting**
   - (6) 12-24 x 3/4" O.H.P.M.S. (Metal)
   - (6) #12 x 1" F.H.P.T.S. (Wood Door)

5. **Strike Mounting**
   - (2) 10-32 x 5/8" F.H.P.M.S. (Metal)
   - (2) #10 x 1" F.H.P.T.S. (Wood Door)

6. **Strike Mounting**
   - (2) 10-32 x 3/8" F.H.P.M.S. (Metal)
   - (2) #10 x 1" F.H.P.T.S. (Wood Door)

7. **Strike Mounting**
   - (2) 10-32 x 5/8" F.H.P.M.S. (Metal)
   - (2) #10 x 1" F.H.P.T.S. (Wood Door)
Read the entire instruction sheet prior to installation.

**Before Installing Hardware:**

1. Door should be fitted and hung.

2. Verify door width, handing and product with carton label for correct exit device and length. (See Step 7)

3. For hand reversal of outside lever trim see Step 4. Additional instruction sheet also packaged with trim.

**Note:** If device is to be installed over glass lite panels, shim kit may be required, order No. GK9000.

**TYPICAL APPLICATIONS**

<table>
<thead>
<tr>
<th>9300 Series Device</th>
<th>9300 Series Device</th>
<th>9300 Series Device</th>
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<th>9400 Series Device</th>
<th>9300 Series Device</th>
<th>9100 Series Device</th>
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</thead>
</table>

**SPECIAL TOOLS FOR INSTALLATION**

12-24 Tap, 10-32 Tap

Drill bits: 1/8", #25, #16, #21 & 3/8"

Hole saws: 1", 1 1/4", & 2 1/8" diameter for trim (if required).

Jig saw or router may be required for thumbpiece trims.
Open box, layout all parts and verify prior to starting installation. See page (1) one for parts.

Door preparation

Based on 1/2" threshold and 3/16" clearance between threshold and door after door is hung.

Shims Supplied With Strikes, But May Not Be Required.

463 Standard
486 Optional Roller
430 Optional Box
443 Backset 2 1/16" if using "cutout" blade stop, stop may or may not have to be cut.

LHRB

1/8" Gap

VERTICAL REF. LINE

4 3/16" (106 mm) MINIMUM STILE
2 3/4" (70 mm) From Edge Of Door

MASTER

VERTICAL REF. LINE

3 1/8" (80 mm)
1/2" (13 mm)
OUTSIDE EDGE

RHRB

MULLIONS

c2

1310  2 3/4" (70 mm) From Edge Of Door
1330  2 15/16" (75 mm) From Edge Of Door
F1300  3 1/4" (83 mm) From Edge Of Door
1340KR/F1340KR  3 1/4" (83 mm) From Edge Of Door

Backset Based On 5/8" Stop And May Vary On Strike Being Used; See Proper Template or Consult Factory.
3 If not done layout device on door using drilling template T9300 located at rear of booklet. For additional templates contact DORMA at 1-800-523-8483 or www.dorma-usa.com

Refer to carton label for model and trim number prior to drilling. Prepare mounting holes and cut-outs per template.

1 3/4" - 2 1/4"

VERTICAL REF. LINE
(See Backsets on page 3.)

1 1/2"

15/16"

7 1/2"

1 3/4"

F9300 ONLY

HORIZONTAL REF. LINE

Verify all holes prior to drilling.

— No. 25
— No. 16
— 3/8"

4 Handing change of trim, cylinder specifications and installation.

Note: For specific trim functions, cylinder type, and handing information; see additional instructions packed with trim.

11/16" min

1 1/8" min

5/16"

Note: Spindle must be installed with pin in the vertical position as shown on 08 & 09 functions.

Standard "V" Trim

Standard "Y" Trim

Standard "T" Trim

Standard "R" Trim

Standard "C" Trim

Standard "K" Trim

Tighten Securely

IMPORTANT

Note: All lever handles except for "clutch" are shipped unattached. To install; Place handle in desired position and attach with allen screw located in back of trim plate. 5/32" Allen wrench required. To change hand on "clutch" trim rotate and "break" lever around to desired hand.

All trims are free wheeling.
(Handle will rotate when locked.)
Secure chassis to door per below, if using GK9000, install shims under chassis at this time.

- #12 x 1 1/4" R.H.P.T.S. (Wood)
  (No trim)
- 12-24 x 1 1/4" R.H.P.M.S. (Metal)
  (No trim)
- 12-24 x 1 1/4" R.H.P.M.S. (Thru bolts)
  (Wood or metal)
  (No trim)

"Fire rated units only" (See fire angle below)

Install strike per details below using proper fasteners.

- 10-32 x 5/8" F.H.P.M.S. #10 x 1" F.H.P.T.S.
- 12-24 x 3/4" R.H.P.M.S. #12 x 1 1/4" R.H.P.T.S.

STRIKE ANGLE
(FIRE RATED DEVICE ONLY)
MUST BE INSTALLED FOR RATED OPENINGS

Install latch guard as shown on Delayed Egress devices.
Prepare to install touch and rail on door.

NOTE: All dimensions are based on 5/8" stop height; Verify strikes, stile width, any trim and stop height prior to making any cuts. If cutting is required follow instructions below.

**Size A:**
Fits 48" door opening without cutting.
Can be cut to fit a 34" minimum door opening.

**Size B:**
Fits 36" door opening without cutting.
Can be cut to fit a 28" minimum door opening.

**Size C:**
Fits 36" door opening with out cutting.
Using a shorter touch pad then the standard "B" size allows it to be cut to 25" door opening.

Verify device length with box label; "A", "B" or "C", ie. 9300B

**Example:**

- Standard "B" touch bar and rail 30"

**Note:** Models with prefix options such as "ES", "DE" etc. may not be cut down to minimums shown to left. Consult factory or catalog for details.

**Note:** If carton label list prefix; "ES", "MS", "LM", "BPA", "BPAR", "DWA", "LM/MS/BP" or "CD" prefix see Options pages at rear.

**IMPORTANT**
Use caution when cutting touchbar and rail to size on models with "ES", "MS", "LM" or "DWA" prefix options.
These units contain internal wiring.
For models with prefix options "BPA", "BPAR" or "DE" remove filler containing electronics before cutting.
8 Install touch bar and rail assembly and end cap to door.

Remove two 8-32 screws from chassis, slide touch bar and rail assembly under rear of chassis. **Note:** If device has prefix "ES" ensure that pins in lever bolt align with slots in actuator located inside nose of touch bar. See instruction sheet IES-7 packed with device. Install (2) two 8-32 x 3/8" P.H.P.M.S. to secure touchbar to chassis.

"Remove protective covering from the touchbar and rail assembly prior to installing on door."

Hold rear mounting bracket tightly against door and rear of rail. Mark (2) two holes and drill per chart. Secure with proper fasteners.

Bracket should be flush against door and tight against rear of rail.

(2) 8-32 x 3/8" P.H.P.M.S.

9 Install center case cover and end cap.

(6) 8-32 x 3/8" P.H.F.H.M.S. Start all (4) screws prior to tightening.

10 Check dogging operation (if equipped).

Standard hex key dogging, depress touch bar, insert supplied hex key and rotate clock wise to dog and counter clock wise to undog.

ES105 (Required for above options.)

For the following models prefixes: "ES", "MS", "LM" or "DWA" drill an additional 1/2" diameter hole as shown. See options pages at rear for additional information.

- 1/8" Drill 1" Deep (Wood)
- No. 16 Drill - 12-24 Tap (Metal)
- 3/8" Dia. (Thru bolts)

Metal/thru-bolts - (2) 12-24 x 1" F.H.P.M.S.
Wood - (2) #12 x 1 1/4" F.H.P.T.S.

General Maintenance Notes:
The DORMA 9000 series exit devices are designed to give years of trouble free service, however depending on installation, location, climate conditions etc.: routine maintenance is recommended in all latch bolt locations. The device should be periodically cleaned and re-lubricated with Dura-Lube to ensure proper function and operation of all moving parts.
"CD" (CYLINDER DOGGING) OPTION:
Cylinder dogging installation instructions & cylinder specifications.

NOTE: Touch bar must be in dogged down position, to remove the rear filler panel.

Note: DORMA mortise cylinder supplied. To use other manufacture cylinders, "L" less cylinder is available.

Useable Cams
Arrow 001
Assa Std. (Yale)
Best C136
Corbin/Russwin A02
Falcon 12667-3
DORMA 10
Ilco/Unican SC1
Lori SC1 4200-82-2002 Std.
Sargent 13-0664 or 13-0660
Schlage 001
Yale 2160

"LM" (LATCH MONITOR) OPTION:
Latch monitor: Monitors movement of latch bolt, with or without depressing of touch bar.
Can be wired normally open or normally closed.

NOTE: Touch bar must be in dogged down position, to remove the rear filler panel.

*NOTE: Use caution when cutting touch bar and rail to length.

SPDT, .5 amp @ 28VDC max.

Black
Common
Green
NORMALLY
OPEN
Red
NORMALLY
CLOSED

"BPA" & "BPAR" (ALARM) OPTION:
(STANDARD INSTALLATION)
BPA: Battery powered alarm, sounds continuous or until disarmed.

BPAR: Battery powered alarm, sounds for 4 minutes, automatically resets.

*Alarm mode set at factory.*

*NOTE: Use caution when cutting touch bar and rail to length.

(DORMA mortise cylinder supplied.)
90B10SC118
To install customer supplied cylinder, see cylinder dogging option at top of page.

SIZE A:
Will fit 48" (1219 mm) door opening without cutting.
Can be cut to fit a 39" (991 mm) minimum door opening.

SIZE B:
Will fit 36" (914 mm) door opening without cutting.
Can be cut to fit a 33" (838 mm) minimum door opening.

SIZE C:
Will fit 36" (914 mm) door opening without cutting.
Can be cut to fit a 30" (762 mm) minimum door opening.

8-32 x 3/8" F.H.P.U.C.M.S.

12-24 x 3/4" R.H.P.M.S.

To replace battery remove endcap.

Refer to additional sheet I9000BPA, packaged with device for operation of alarmed exit device.
**OPTIONS**

"ES" (ELECTRIC LATCH RETRACTION) OPTION:
Electrically retracts latchbolt(s) when energized by power supply.

REQUIRES DORMA PS-501 POWER SUPPLY AND ES105 POWER TRANSFER. WARRANTY VOID IF AN OHTER SUPPLY IS USED.
PS-501 Will operate (2) "ES" 9300 exit devices. By adding a second "ES2" logic card, (2) additional "ES" 9300 exit devices may be used.

*NOTE: Use caution when cutting touch bar and rail to length.

---

| Maximum Wire Length From Power Supply To Device In Feet x Wire Gage/Size *
| WIRE 18AWG | 16AWG | 14AWG | 12AWG |
| FEET | 25 | 50 | 75 | 100 |

---

"DWA" (DIRECT WIRED ALARM) OPTION:
Connected to outside power source.
i.e. DORMA ES100
Contact DORMA for other power supplies available.

DWA Battery Eliminator

8-32 x 3/8" F.H.P.U.C.M.S.

*NOTE: Use caution when cutting touch bar and rail to length.

---

"MS" (MICRO SWITCH) OPTION:

"MS" option allows monitoring of touch bar during normal operation, or can be used as a signal switch for horn, light etc.
Comes standard with (2) two micro switches. Both can be wired either Normally Open or Normally Closed. Can be added to device after installation.

Black Common
Green
Normally Open
Red
Normally Closed

NOTE: Touch bar must be in dogged down position, to remove the rear filler panel.

*NOTE: Use caution when cutting touch bar and rail to length.

---

SPDT, .5 amp @ 28VDC max.

---
"MD" (MAGNETIC DOGGING) OPTION:

Electrically dogs touch bar when energized by power supply, then depressed. Releases upon interruption of power.

*NOTE: Use caution when cutting touch bar and rail to length.

Maximum Wire Length From Power Supply To Device In Feet x Wire Gage/Size *

<table>
<thead>
<tr>
<th>WIRE</th>
<th>18AWG</th>
<th>16AWG</th>
<th>14AWG</th>
<th>12AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEET</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>50</td>
<td>75</td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

* For wiring to electric hinge or power transfer.

Note: Wire run is from supply to device and back to the supply.

.25 AMP CURRENT DRAW @ 24VDC

REQUIRES DORMA PS-545 POWER SUPPLY CAPABLE OF POWERING 1 - 4 "MD" DEVICES. THE USE OF A POWER TRANSFER (ie ES105) OR AN ELECTRIC HINGE IS RECOMMENDED.

FITS "STANDARD" TOUCH BAR AND RAIL ASSEMBLIES ON BOTH THE 5000 AND 9000 SERIES EXIT DEVICES. NOT AVAILABLE ON DEVICES SUCH AS "ES", "DE", "AL" ETC.

MAXIMUM HOLDING FORCE 40# - 60#. IMMEDIATE RELEASE UPON REMOVAL OF POWER.
**OPTIONS**

"DE" (DELAYED EGRESS) OPTION:

Note: Refer to DE9000 Series Installation Instructions for additional instructions for installation and operation of the "Delayed Egress" exit device.

85 Decibel Alarm - Standard
LED Status Indicator - Standard
Nuisance Alarm - Standard
Key Switch Control - Standard
Remote Authorized Egress - Standard
Remote Re-Arm - Standard
Remote Bypass - Standard
Door Position Input - Standard, DIP Switch Setting
Auto Reset or Manual Reset, DIP Switch Setting
Auto - Standard (Manual - in CA)
Additional Form "C" Relays For Optional Horn etc. (Rated 1 amp @ 30 vdc)

REQUIRES DORMA ES-100 24 VDC POWER SUPPLY.
One supply per device unless the optional ES101 Time Delay is used to sequence the arming of the two devices.

Easily accessible slide in and out electronics.
Meets UL & ANSI/BHMA requirements.

SIZE A:
Will fit 48" (1219 mm) door opening without cutting.
Can be cut to fit a 40 1/2" (1029 mm) minimum door opening.

SIZE B:
Will fit 36" (914 mm) door opening without cutting.
Can be cut to fit a 34 1/2" (876 mm) minimum door opening.

NOTE: Some CA Codes may require different verbiage; check local code requirements prior to installing decal.

DE9300

Minimum 18 AWG wire recommended for 24VDC inputs (red & black) leads.

DORMA ES105
(Power Transfer "Required")

(12) Wire Connection
Bundle 22" in length.

Black: (-) 24VDC IN
Red: (+) 24VDC IN
White: AUTHORIZED EGRESS/AUTO RESET
Orange: BYPASS/RE-ARM
Grey: DPS N/C
Violet: ALARM RELAY COMMON
Green: RED OUTPUT EMITTER
Brown: RED OUTPUT COLLECTOR
Blue: GREEN OUTPUT EMITTER
Yellow: GREEN OUTPUT COLLECTOR
Pink: ALARM RELAY N/C
Tan: ALARM RELAY N/O

| Maximum Wire Length From Power Supply To Device & Back To Supply In Feet x Wire Gauge/Size |
|-----------------------------------------------|----------------|----------------|----------------|
| Wire | 18AWG | 16AWG | 14AWG | 12AWG |
| FEET | 25    | 50    | 75    | 100 |

* For 24VDC inputs only (red & black wires).
Note: Wire run is from supply to device and back to the supply.
For Wood or Composite Doors:
8 1/8" x 2 3/8" x 3/4" Deep Min. Cut
Out. (Outside Face)
DO NOT CUT THROUGH DOOR!
(G) 2 1/8" Dia. Min. Hole x 1 1/4" Deep As Shown
(E) 1" Dia. Min. Hole Thru As Shown
(L) 1/4" Dia. Hole x 1" Deep As Shown

FOR WOOD DOOR 8 1/8" x 2 3/8" x 3/4" DEEP MIN. (SEE TEMPLATE BOOK PRINT T-9005 FOR ADDITIONAL INFO.)

OUTSIDE DOOR PREP
(VERTICAL REFERENCE)

INSIDE DOOR PREP
(VERTICAL REFERENCE)

VERTICAL REF. LINE BASED ON
HORIZONTAL

FINISHED FLOOR

40 5/16" FROM
5/8" (16 mm) THRU DOOR - C08, R08 & K08

2 1/8" (54 mm) THRU DOOR - C08, R08 & K08

5/16" (8 mm) THRU DOOR - C08, R08 & K08

L 1/4" (6 mm) DIA. THRU FOR THUMPEICE CLEARANCE

FOR WOOD DOOR 8 1/8" x 2 3/8" x 3/4" DEEP MIN. (SEE TEMPLATE BOOK PRINT T-9005 FOR ADDITIONAL INFO.)

OUTSIDE DOOR PREP
(VERTICAL REFERENCE)

INSIDE DOOR PREP
(VERTICAL REFERENCE)