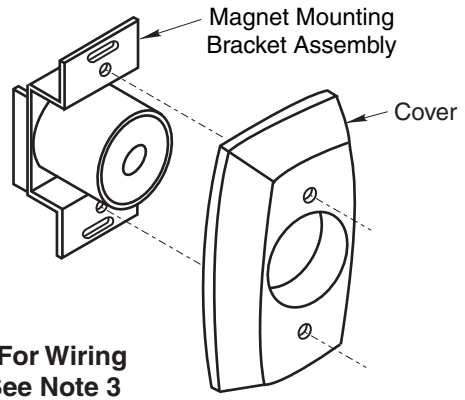
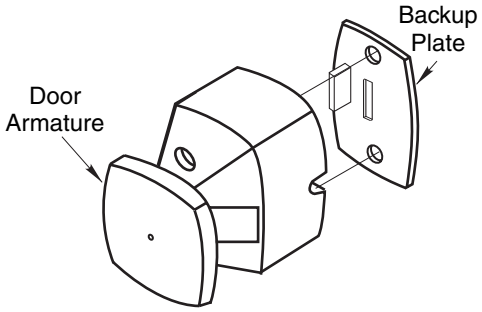
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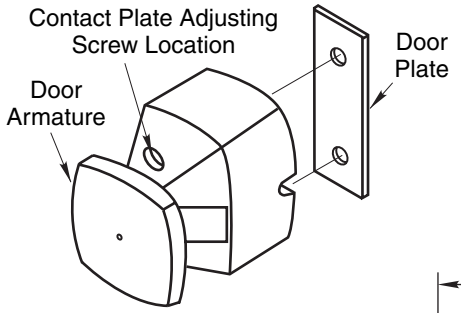




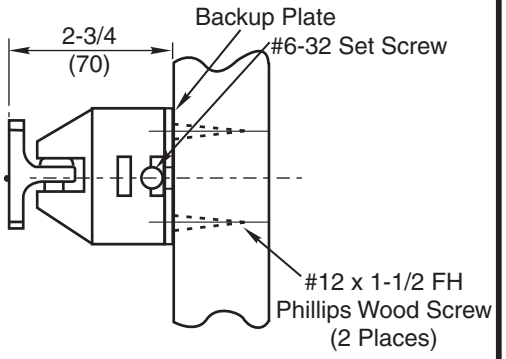

*** For Wiring See Note 3**

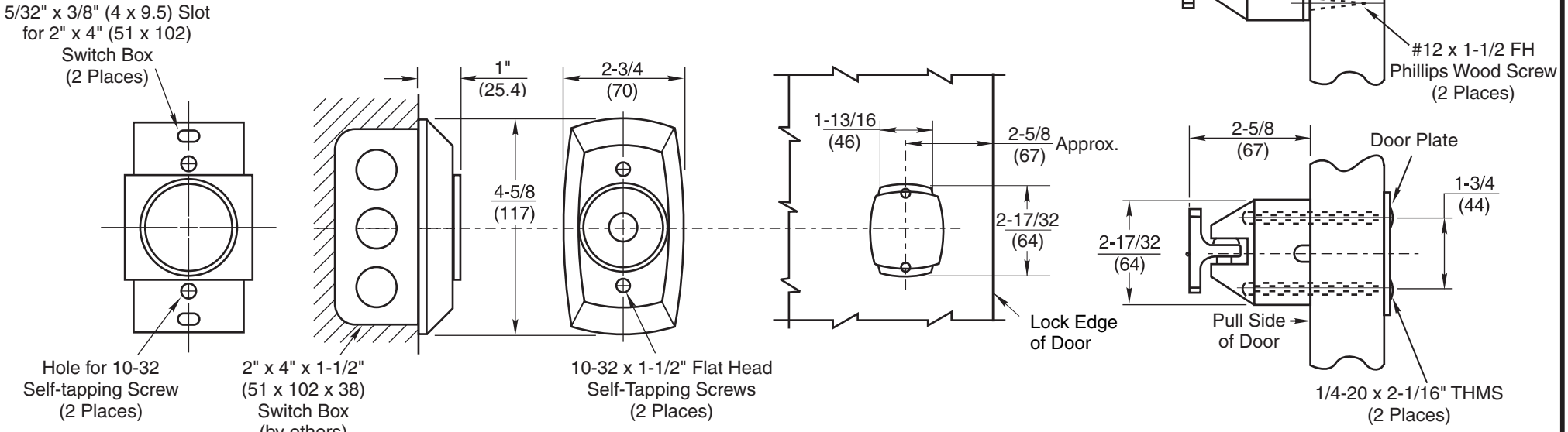



**Surface Applied Concealed Mounting**
Recommended for Solid Wood Doors Only




**Thru Bolt Mounting**
Recommended for Hollow Metal, Hollow Core or Composite Type Wood Doors




**Notes:**

1. Do not scale drawing.
2. Total projection 3-5/8" (92mm). (Includes electromagnet and armature assembly.)
3. Non-tri voltage magnets have two non-polarized wires to be connected. Tri voltage magnets are connected using a terminal strip on back of magnet. One wire in common and one wire in the appropriate voltage terminal (non-polarized).
4. See step 1 of instructions for Switch Box location. Anchor Switch Box to withstand a minimum 50 lb. pull. Switch Box shown installed in a vertical position.
5. Door closing mechanism should have a 3 lb. closing force at the degree of door opening where door armature and electromagnet engage.
6. Mounting of Switch Box should be reinforced to withstand shock of door opening. Failure to do so will cause Box anchors to work loose.
7. All dimensions given in inches (mm).

# FM998 Door Release

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| TEMPLATE NUMBER | DATE |
|---|---|
| DR100270A | 07-13 |

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1. Use table to locate Switch Box.

2. Determine door width (Dim "B"). Measure pivot centerline to wall (Dim. "A"). Find dimension "C" in table.
   Example: Pivot centerline to wall ("A") = 10" (254mm)
   Door Width ("B") = 36" (914mm)
   Switch Box Centerline ("C") = 33" (838mm)

3. If "A" or "B" falls between the numbers listed in table, allow for difference.
   Example: Pivot centerline to wall ("A") = 17" (432mm)
   Door Width ("B") = 36" (914mm)
   Switch Box Centerline ("C") = 33" (838mm)

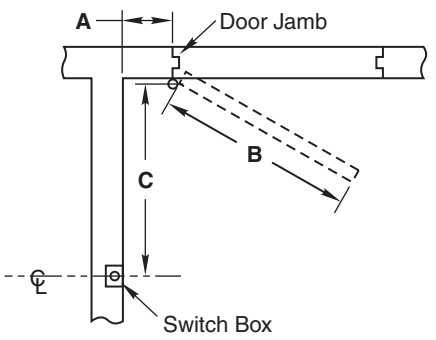
4. If dimensions "A" and "B" intersect in shaded area of table DO NOT INSTALL SWITCH BOX. The degree of door opening will not permit proper alignment between armature and wall magnet.

5. Height to be determined by others. Suggested height is 2' to 4' (610mm to 1219mm) from floor and/or not over 6' (1829mm).

6. Check degree of door opening in table and coordinate with door closers and other door hardware.

**"A"** – Pivot Centerline to Wall
**"B"** – Door Width
**"C"** – Pivot Centerline to Switch Box Centerline

**Location of Switch Box**




| Dim. "A" | Door Width "B" | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 28" (711) | | 30" (762) | | 32" (813) | | 34" (864) | | 36" (914) | | 38" (965) | | 40" (1016) | | 42" (1067) | | 44" (1118) | | 46" (1168) | | 48" (1219) | |
| | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. |
| 2" (51) | 26" (660) | 90° | 28" (711) | 90° | 29-7/8 (759) | 90° | 32" (813) | 90° | 34" (864) | 90° | 36" (914) | 91° | 38" (965) | 91° | 40" (1016) | 92° | 42" (1067) | 92° | 43-7/8 (1114) | 92° | 45-5/8 (1159) | 92° |
| 4" (102) | 26" (660) | 93° | 28" (711) | 94° | 29-7/8 (759) | 94° | 32" (813) | 94° | 34" (864) | 94° | 36" (914) | 94° | 38" (965) | 94° | 40" (1016) | 94° | 42" (1067) | 94° | 43-7/8 (1114) | 94° | 45-5/8 (1159) | 94° |
| 6" (152) | 25-5/8 (651) | 97° | 27-5/8 (702) | 97° | 29-5/8 (752) | 97° | 31-3/4 (806) | 97° | 33-3/4 (857) | 97° | 35-3/4 (908) | 97° | 37-3/4 (959) | 97° | 39-3/4 (1010) | 97° | 41-3/4 (1060) | 97° | 43-5/8 (1108) | 96° | 45-3/8 (1153) | 96° |
| 8" (203) | 25-1/4 (641) | 103° | 27-1/4 (692) | 103° | 29-1/4 (743) | 103° | 31-3/8 (797) | 101° | 33-1/2 (851) | 100° | 35-1/2 (902) | 100° | 37-3/8 (949) | 100° | 39-1/2 (1003) | 99° | 41-1/2 (1054) | 99° | 43-3/8 (1102) | 98° | 45-1/4 (1149) | 98° |
| 10" (254) | 24-5/8 625) | 107° | 26-3/4 (679) | 106° | 28-3/4 (730) | 106° | 30-7/8 (784) | 105° | 33" (838) | 104° | 35" (889) | 103° | 37" (940) | 103° | 39-1/8 (994) | 103° | 41-1/8 (1045) | 103° | 43" (1092) | 102° | 44-7/8 (1140) | 102° |
| 12" (305) | 23-3/4 (603) | 113° | 25-7/8 (657) | 111° | 28" (711) | 110° | 30-1/8 (765) | 108° | 32-1/4 (819) | 107° | 34-3/8 (873) | 107° | 36-3/8 (924) | 107° | 38-1/2 (978) | 106° | 40-5/8 (1032) | 106° | 42-1/2 (1080) | 104° | 44-3/8 (1127) | 104° |
| 14" (356) | 22-3/4 (578) | 117° | 25" (635) | 115° | 27-1/4 (692) | 114° | 29-3/8 (746) | 113° | 31-1/2 (800) | 112° | 33-3/4 (857) | 110° | 35-7/8 (911) | 109° | 38" (965) | 108° | 40" (1016) | 107° | 42" (1067) | 106° | 43-7/8 (1114) | 106° |
| 16" (406) | 21-3/4 (552) | 123° | 24" (610) | 120° | 26-1/4 (667) | 117° | 28-1/2 (724) | 116° | 30-3/4 (781) | 115° | 33" (838) | 114° | 35-1/8 (892) | 113° | 37-1/4 (946) | 112° | 39-3/8 (1000) | 112° | 41-3/8 (1051) | 110° | 43-3/8 (1102) | 108° |
| 18" (457) | 20" (508) | 127° | 22-1/2 (572) | 125° | 25" (635) | 123° | 27-3/8 (695) | 120° | 29-3/4 (756) | 117° | 32" (813) | 116° | 34-1/4 (870) | 116° | 36-1/2 (927) | 115° | 38-5/8 (981) | 114° | 40-5/8 (1032) | 113° | 42-1/2 (1080) | 112° |
| 20" (508) | 18-1/4 (464) | 134° | 21" (533) | 130° | 23-1/2 (597) | 127° | 26" (660) | 125° | 28-1/2 (724) | 123° | 30-7/8 (784) | 121° | 33-1/8 (841) | 119° | 35-3/8 (899) | 118° | 37-5/8 (956) | 117° | 39-5/8 (1006) | 115° | 41-5/8 (1057) | 114° |
| 22" (559) | | | 18-3/4 (476) | 132° | 21-5/8 (549) | 133° | 24-3/8 (619) | 130° | 27" (686) | 127° | 29-3/8 (746) | 125° | 31-3/4 (806) | 123° | 34-1/8 (867) | 121° | 36-1/2 (927) | 120° | 38-5/8 (981) | 118° | 40-3/4 (1035) | 116° |
| 24" (610) | | | | | | | 22-1/2 (572) | 132° | 25-1/2 (648) | 133° | 28-1/8 (714) | 130° | 30-5/8 (778) | 127° | 33-1/8 (841) | 125° | 35-5/8 (905) | 123° | 37-7/8 (962) | 121° | 40" (1016) | 119° |
| 26" (660) | | | | | | | | | | | 26-1/4 (667) | 132° | 29" (737) | 130° | 31-5/8 (803) | 128° | 34-1/4 (867) | 127° | 36-1/2 (927) | 125° | 38-5/8 (981) | 123° |
| 28" (711) | | | | | | | | | | | | | | | 29-3/4 (756) | 130° | 32-1/2 (826) | 129° | 34-7/8 (886) | 127° | 37-1/8 (943) | 126° |
| 30" (762) | | | | | | | | | | | | | | | 27-3/4 (705) | 132° | 30-5/8 (778) | 134° | 33" (838) | 130° | 35-3/8 (899) | 128° |
| 32" (813) | | | | | | | | | | | | | | | | | | | 31-3/8 (797) | 132° | 33-7/8 (860) | 132° |

Dimensions given in inches (mm).

# FM998 Door Release Location Sheet

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| DR100270B | 07-13 |