Installation Guidelines for
MTI RFID SmartLocks

Contents

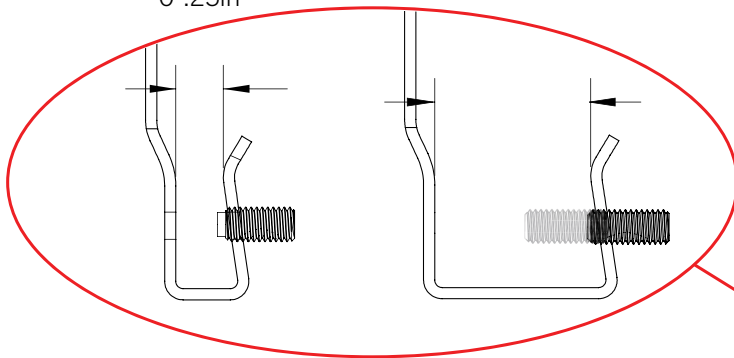| 185-01186 | RS1 Ratcheting Door Lock (0-.25in door) |
| 185-01187 | RS2 Ratcheting Door Lock (.31-.78in door) |

[68mm]
2.68in

[24.6mm]
.97in

[62mm]
2.44in
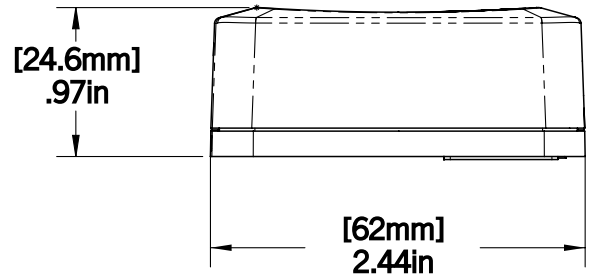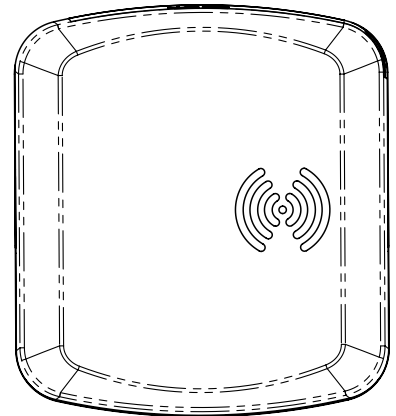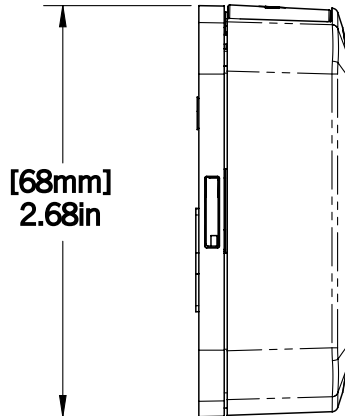
RS1 Thin Latch Door Thickness
[0-6mm]
0-.25in

RS2 Thick Latch Door Thickness
[8-20mm]
.3125-.78in
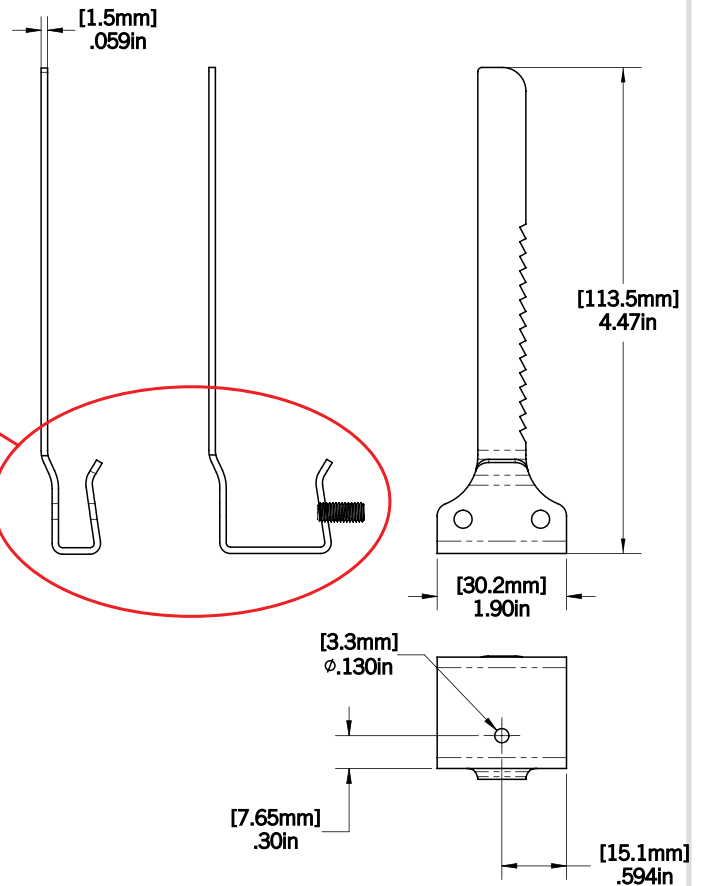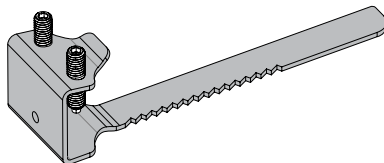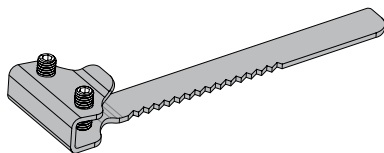
[1.5mm]
.059in

[113.5mm]
4.47in

[30.2mm]
1.90in

[3.3mm]
⌀.130in

[7.65mm]
.30in

[15.1mm]
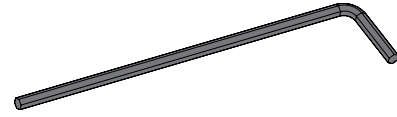.594in

RATCHETING GLASS DOOR LOCK
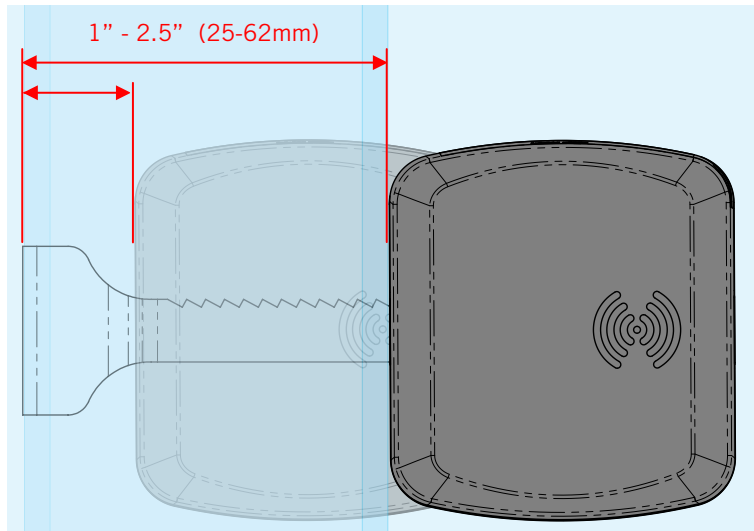
Required Tools

MTI Retail Tool - For Battery Door - 003-00087

2.5mm Allen Wrench - For Set Screw 003-0091-00

Door Overlap - Min/Max

1" - 2.5" (25-62mm)

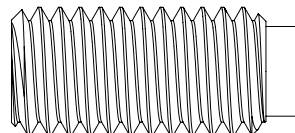Mount latch to door with set screws - Standard

Mount latch to wooden door with #8 screw
Optional. Screw not included
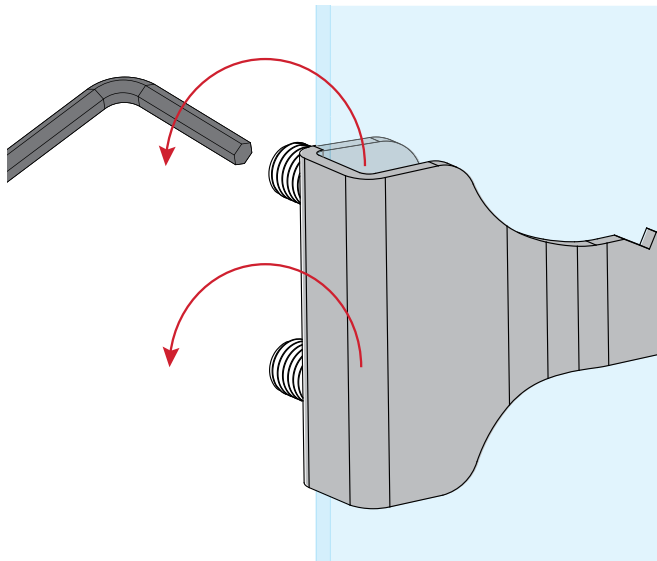
M5 x 11 Set Screws - Both Included
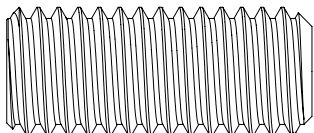
Standard Tip

Nylon Tip - For Glass Doors
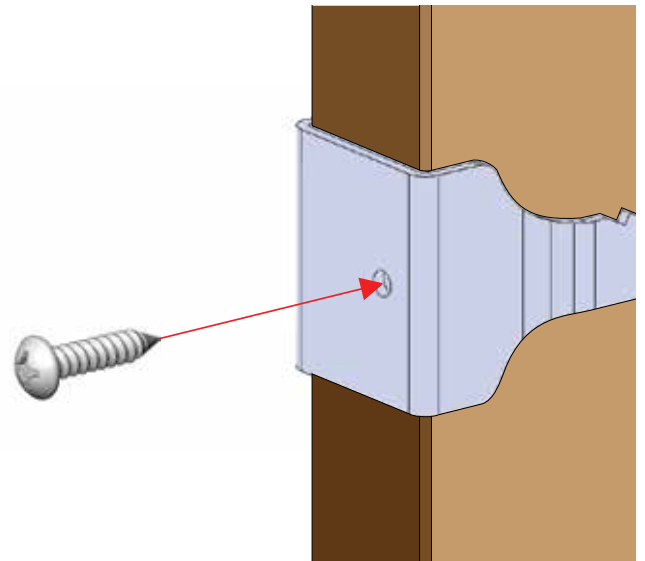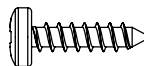
185-01212	UL1 Universal Door/Drawer Lock

[48]
1.88in

[22.10]
.870in

[59.99]
2.362in

[60.40]
2.38 in

[46.15]
1.82in

[44]
1.73in
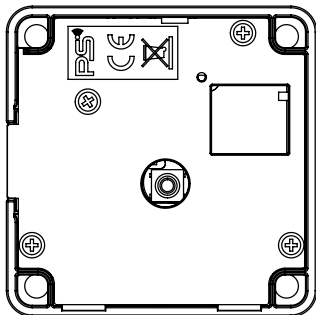
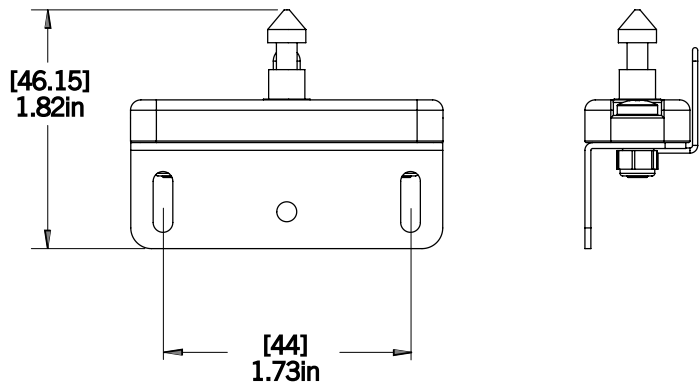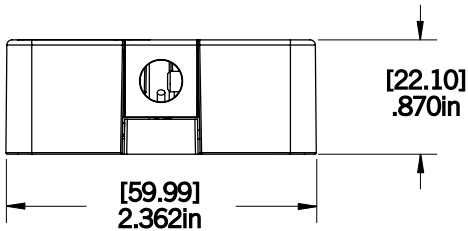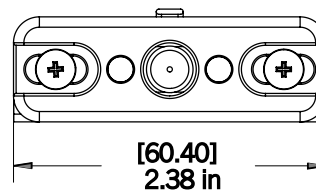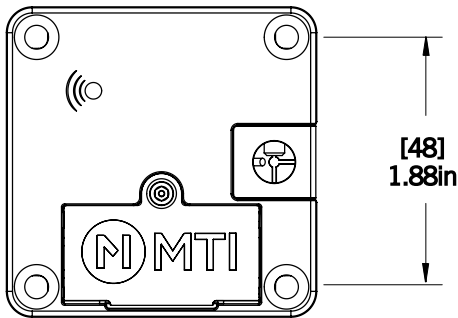#7-16 x 1.3in Wood Screw - 4 pieces

#7-16 x .60in Wood Screw - 2 pieces

Universal Door/Drawer Lock

MTI

Required Tools

MTI Retail Tool - For Battery Door - 003-00087

No. 2 Philips Screwdriver - Lock/Latch Mounting

Mounting Options

Swinging Door or Drawer

Sliding door - Remove "L" bracket"

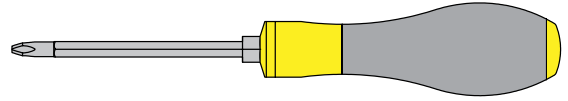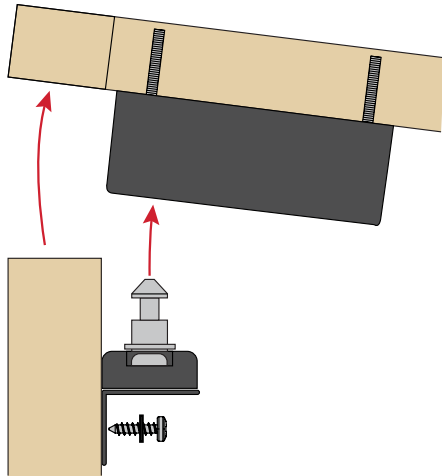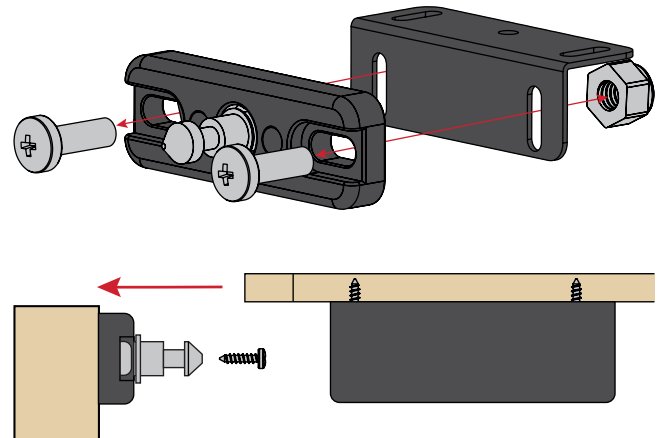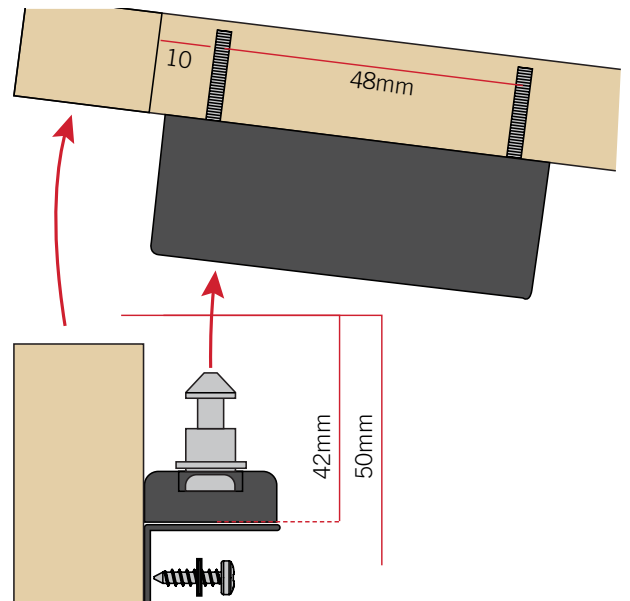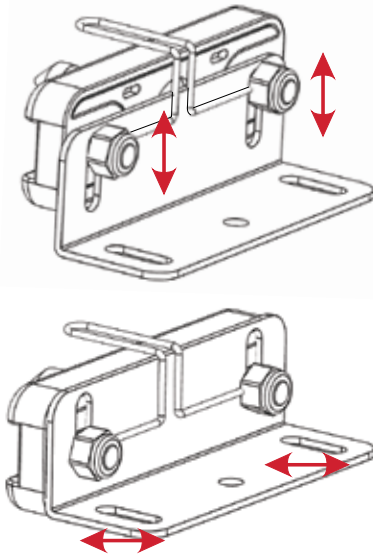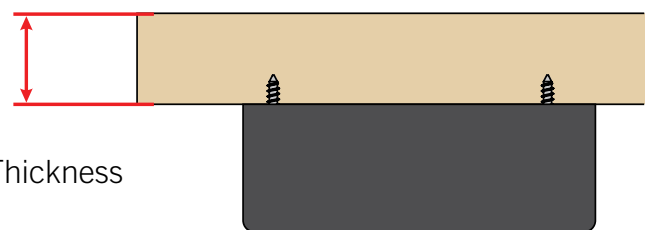Latch can be adjusted for better alignment
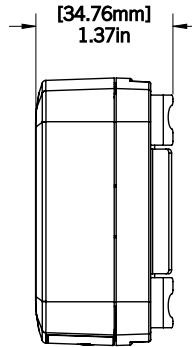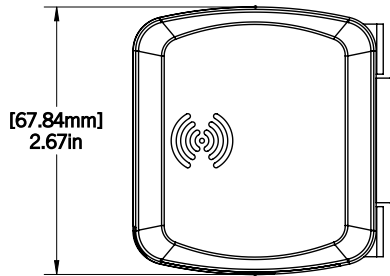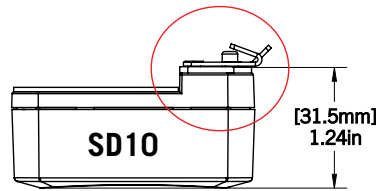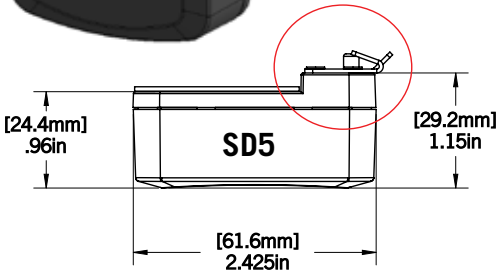
10   48mm

42mm   50mm

Door material must be wood, plastic, or glass.
RFID antenna cannot read through a metal door.

1in./25mm Max Thickness

Sliding Door Lock

185-01182	SD5 Sliding Door Lock (0-.125in door)
185-01183	SD10 Sliding Door Lock (.187-.25in door)

SD5

[24.4mm]
.96in

[29.2mm]
1.15in

[61.6mm]
2.425in

SD10

[31.5mm]
1.24in

[34.76mm]
1.37in

[67.84mm]
2.67in

SD5 - For .125in door thickness

[3.15mm]
.124in
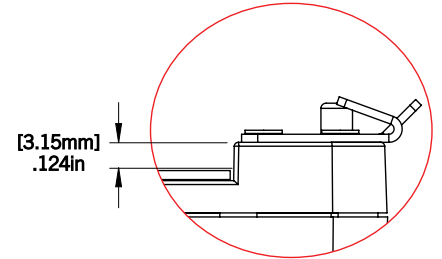
SD10 - For .25in door thickness

[4.75mm]
.187in
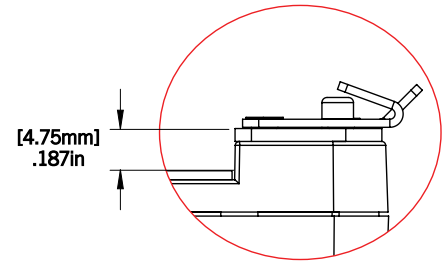
Latch/Spacer Door Gap Range
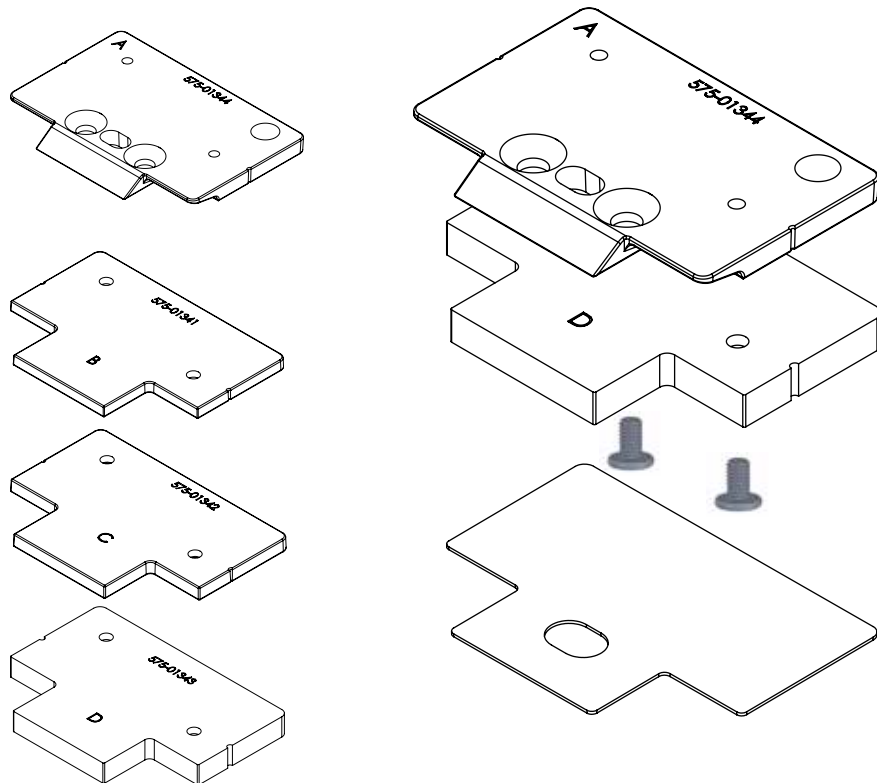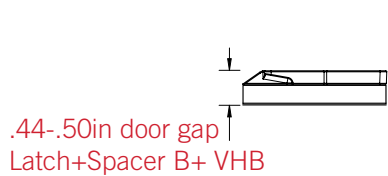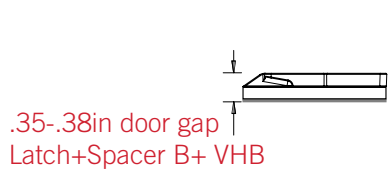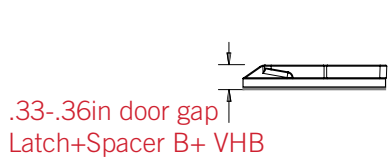
.16-.22in door gap
Latch attached with screws

.21-.25in door gap
Latch+VHB

.33-.36in door gap
Latch+Spacer B+ VHB

.35-.38in door gap
Latch+Spacer B+ VHB

.44-.50in door gap
Latch+Spacer B+ VHB

575-01344

575-01344

A

A

B

C

D

D

575-01341

575-01342

575-01343

Sliding Door Lock

Required Tools

MTI Retail Tool - For Battery Door - 003-00087

2.5mm Allen Wrench - For Set Screw 003-0091-00
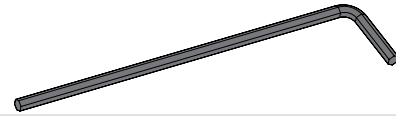
Optional Install Aids
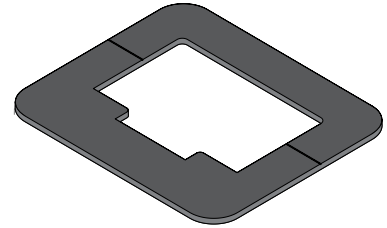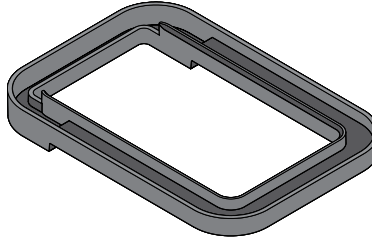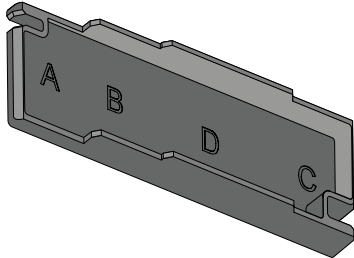
Door Gap - Insert gap gauge between doors.
Latch/Spacer combination should be for tightest fit between doors.

B Latch

Door Overlap - Min/Max

.35in (9mm) Min. Overlap

575-01344

A

Latch - Attach to door with VHB.
Optional - Attach with screws, (not included)
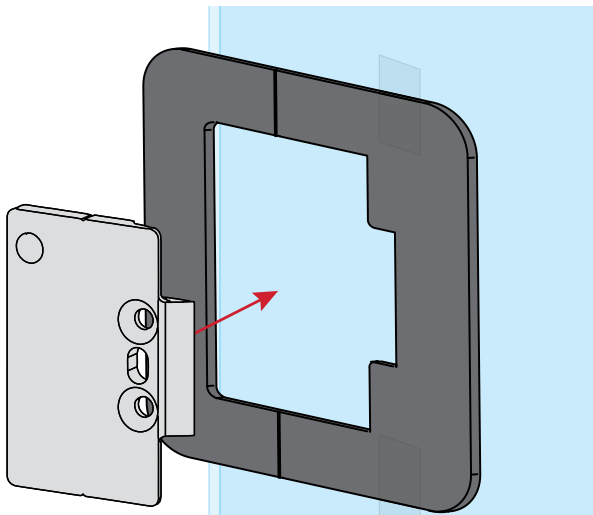
Lock Body - Attach to door with VHB

Cam Lock

[40mm] 1.58in

[12.5mm] .49in

[20mm] .78in

[20mm] .78in

[25.7mm] 1.01in

[117mm] 4.61in

[18.8mm] .74in

[105mm] 4.135in

[32mm] 1.26in

[8mm] .315in
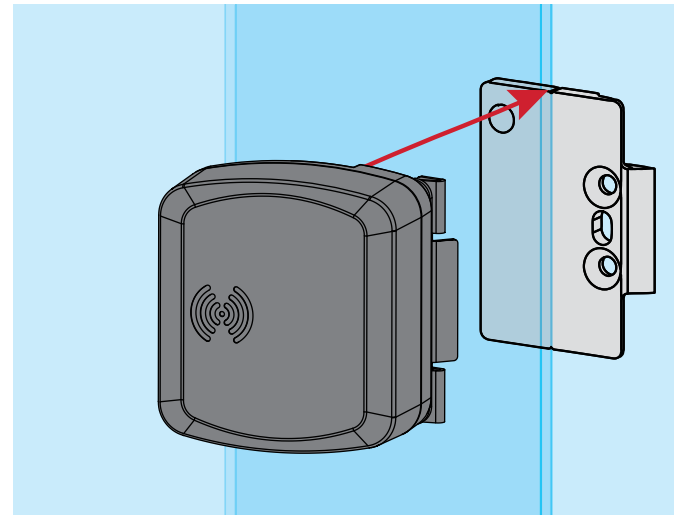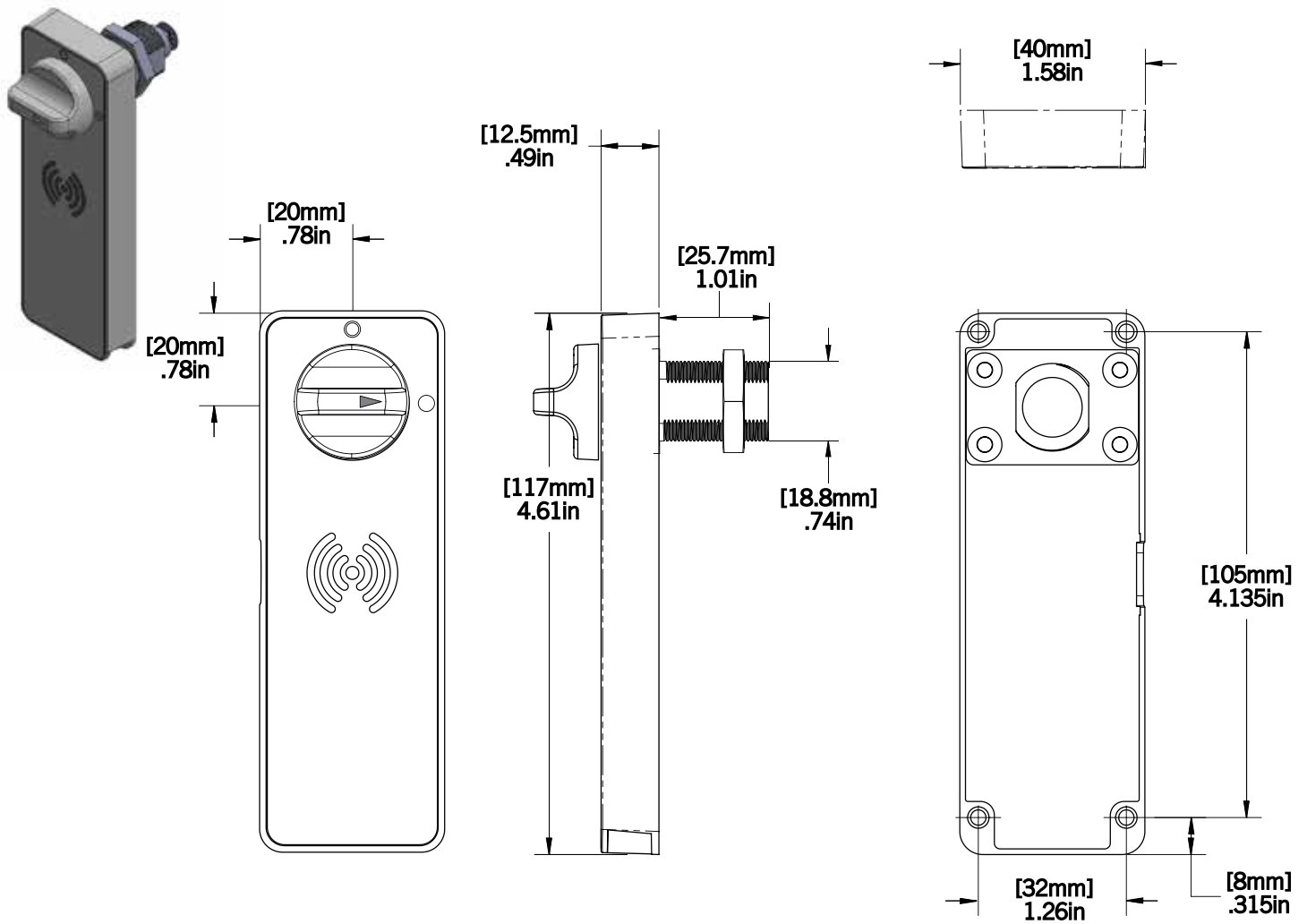
Clockwise and Counter-Clockwise versions for left or right hinged doors

Lock can mount with VHB or machine screw, or with bushing mount.
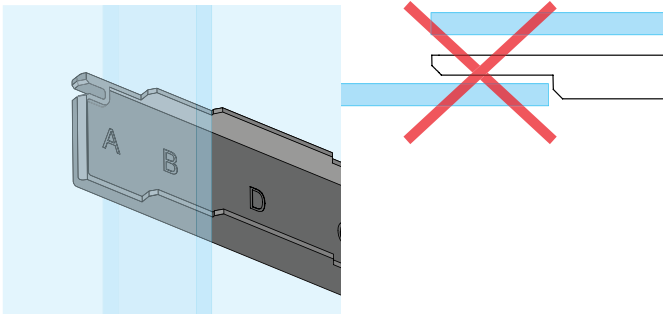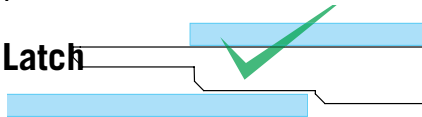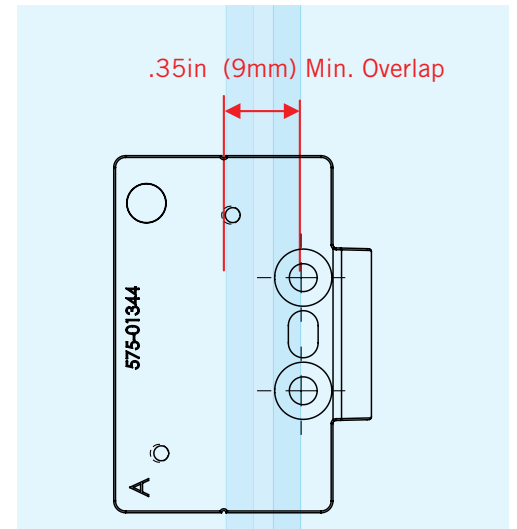
M4 Machine Screw

VHB

3/4" Bushing mount

Cam Lock

Required Tools

MTI Retail Tool - For Battery Door - 003-00087

No. 2 Philips Screwdriver - Cam Mounting

22mm or 7/8in Wrench - For mounting nut

Lock may be mounted vertically or horizontally. Minimum setback from edge required
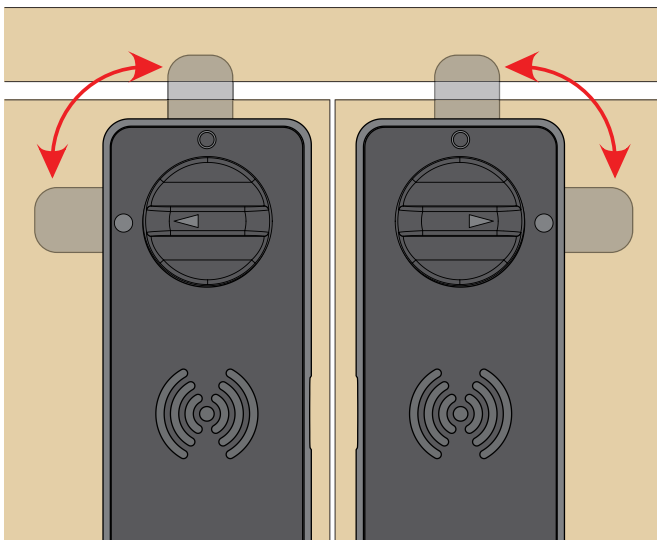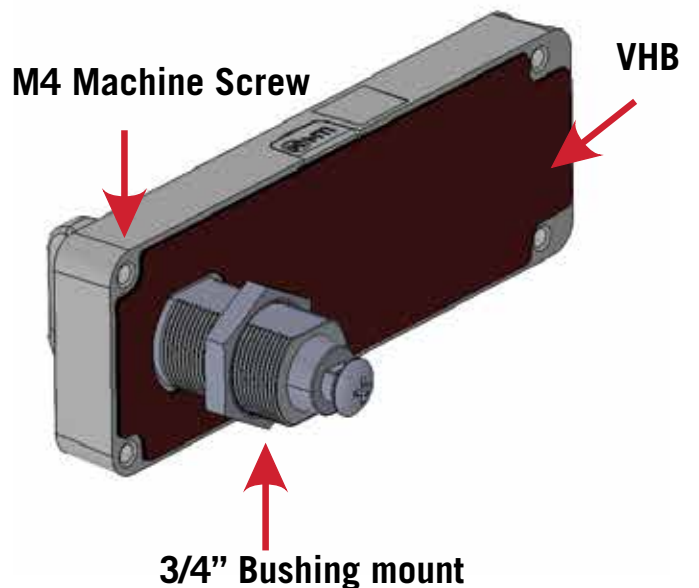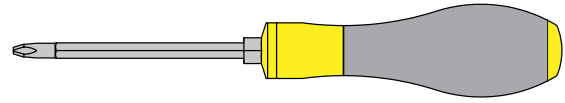
.78/20mm Minimum Edge Setback
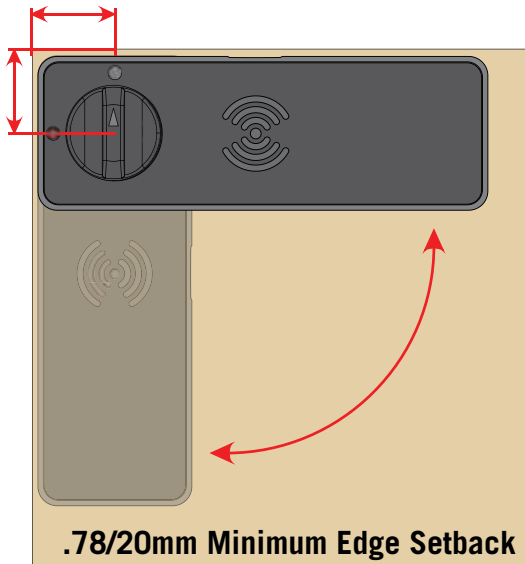
Through Hole Required - Ensure hole is drilled square to the surface.

.75in/19mm Through Hole
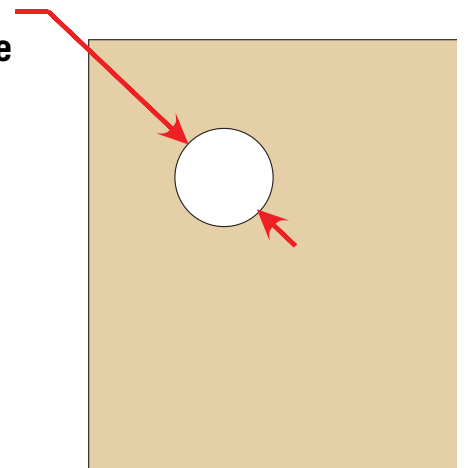
CAM Style - Adapter Kits available

Adapter kits designed to use readily available Cams from a variety of suppliers. Cams not included. Examples shown.

Straight CAM

Offset CAM
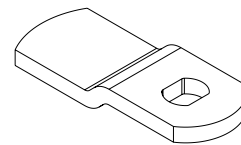
6.5mm drive
165-01215

5.5mm D-drive
165-01216

8mm drive
165-01222

9mm drive
165-01223

Cam Lock
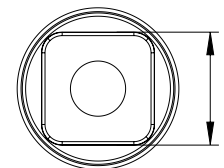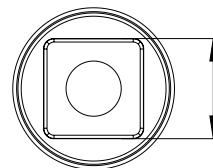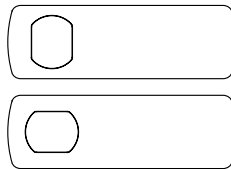
Pocket location for Cam is determined by max distance vs door thickness. Door thickness may determine pocket depth (C)

A - B = C
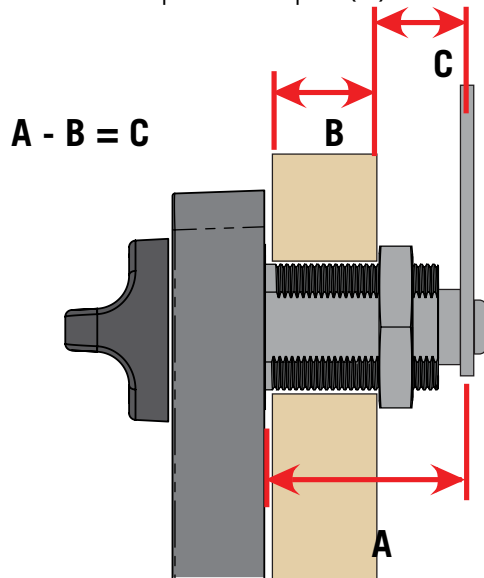
Use straight, or offset cams depending on application.

Plunger Lock

[20mm]
.78in

[20mm]
.78in

[12.5mm]
.49in

[25.7mm]
1.01in

[117mm]
4.61in

[18.8mm]
.74in

[10mm]
.39in

[40mm]
1.58in

[105mm]
4.135in

[32mm]
1.26in

[8mm]
.315in
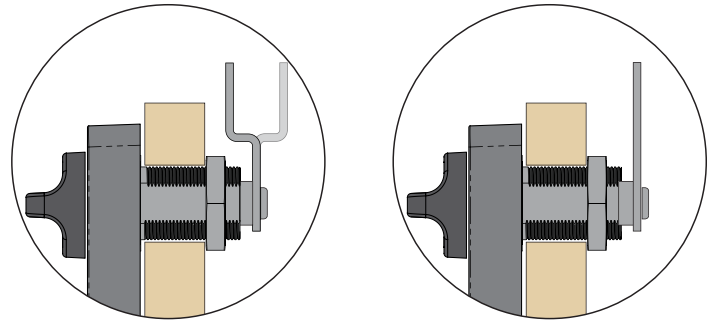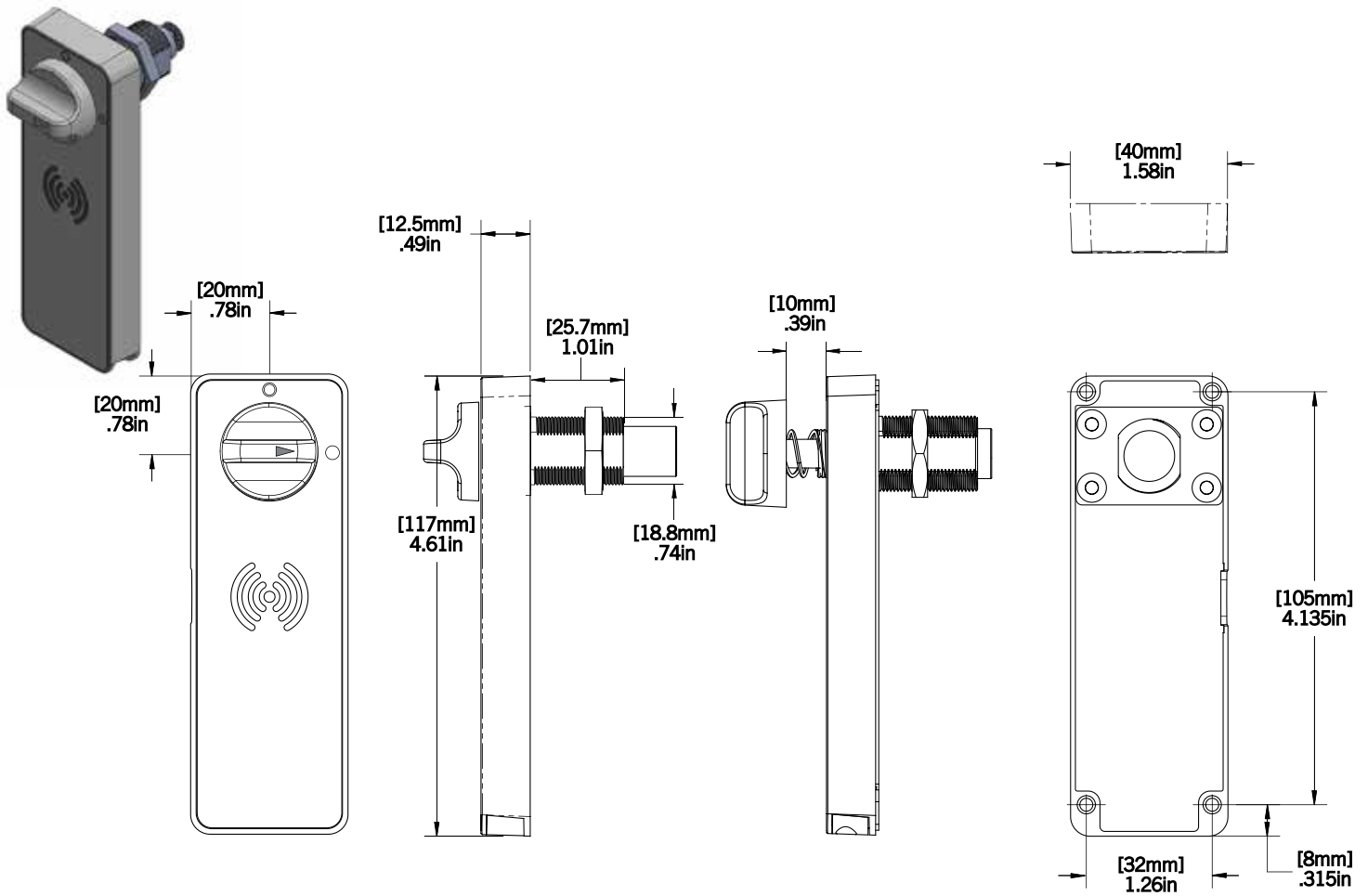
Required Tools

MTI Retail Tool - For Battery Door - 003-00087

No. 2 Philips Screwdriver - For Plunger Extensions

22mm or 7/8in Wrench - For mounting nut
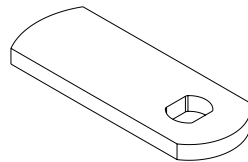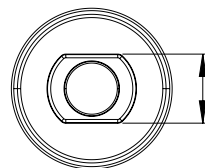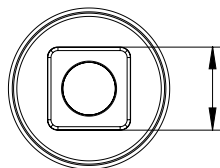
Plunger Lock

Twist Lock to unlock

Plunger will pop out, but remain captured by lock

[10mm]
.39in
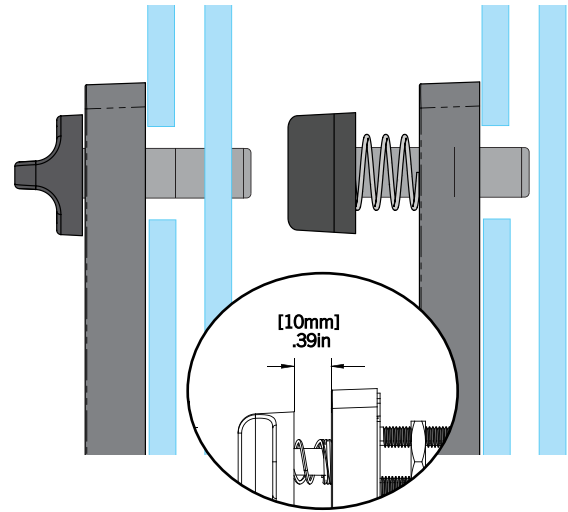
Lock may be mounted vertically or horizontally. Minimum setback and door overlap required

.63in/16mm minimum door overlap

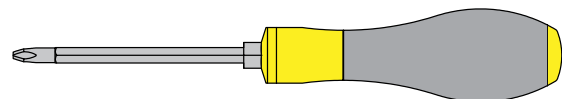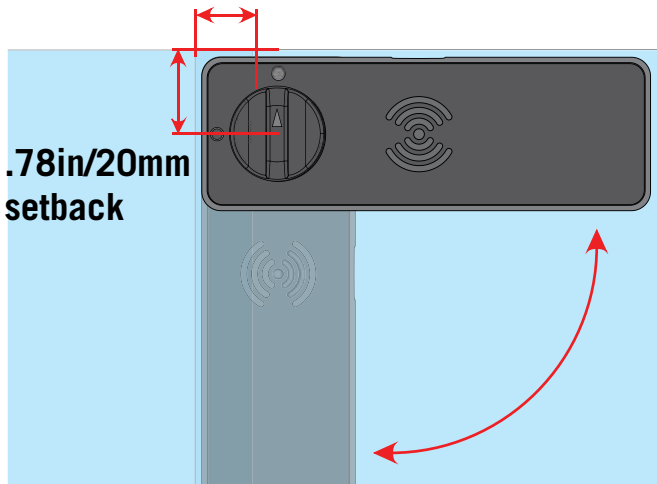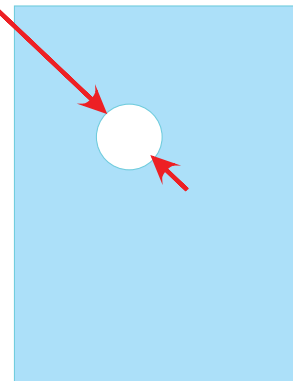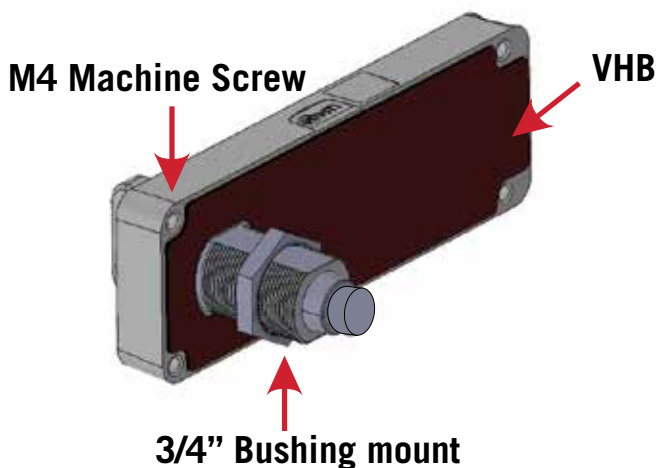**.78in/20mm setback**

Through Hole Required

.315in/8mm minimum

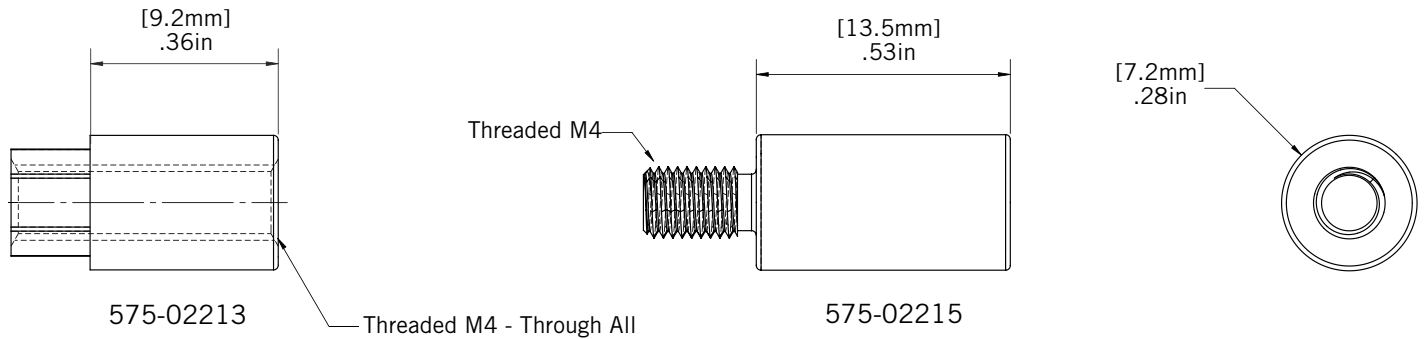Lock can mount with VHB or machine screw, or with bushing mount.

M4 Machine Screw

VHB

3/4" Bushing mount

Plunger adapters as standard. Custom adapter extensions can attach easily with M4 screw.

[9.2mm]
.36in

Threaded M4

[13.5mm]
.53in

[7.2mm]
.28in

575-02213

Threaded M4 - Through All

575-02215

Lock can mount with a combination of plunger extension and mounting options. It can attach with VHB with a simple flush mount for most glass/metal/plexi doors. For thicker wooden doors, a threaded bushing that allows eash retrofit is also available.

[0-9.2mm]
.36in

[12.7-22.7mm]
.50-.89in

[12.7-22.7mm]
.50-.89in

575-2213 Only

575-2213 + 575-02215

575-2213 +
575-02215 +
3/4" D-bushing for solid door