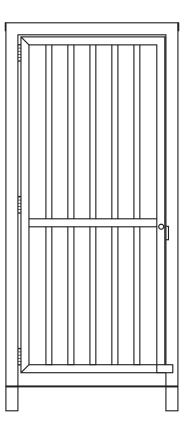


# HS300 Series Full Height ADA Gate Service & Installation Manual



## Note: Successful installation depends on reading this manual.

Please keep this service manual after installation. If an installation is done by a construction company or outside installer, please pass this book along to the end user. This book is required for maintenance, troubleshooting & repairs.

# **The High-Security Series**

HS336-ADA | HS348-ADA

## Manual or Electronic Passage Gate | Interior & Exterior Application



HS336 (stainless steel) \* All models available in stainless steel, powder coat or galvanized.



### We're the #1 Choice of Top Architects, Security Pros and Engineers

For more than 30 years, Controlled Access has been the globally trusted name in pedestrian control equipment. Made in Ohio and shipped worldwide, we are the first choice of leading architects, facility managers, security consultants, and engineers. Whether your project requires high security full-height turnstiles, waist high units, or matching ADA accessible gates, Controlled Access is the secure choice. We're experienced in access control systems, from card readers to biometric scanning, to give you the power to control access.

### The Truly "Custom" ADA Gate:

Our HS336-ADA is our ADA solution to perimeter security. This self-closing, heavy duty swing gate provides a wheelchair accessible 36" passage width (with an overall width of 43.375"), or the HS348 (with an overall width of 55.375"). It's low voltage strike lock can be used mechanically or electronically depending on your needs. It features our hinging system that only requires 5ft. pounds of opening force. It is available in all of our standard finishes including stainless steel (304 or 316), carbon steel with powder coating, or hotdipped galvanized, to match our turnstiles perfectly. Your choice of standard vertical bars or reach prevention mesh allows for a custom experience. A treadplate walkway adds additional rigidity and helps in preventing installation mishaps.





5

HS336 - Back (stainless steel with mesh)

Panic hardware, guard and mesh should be used for Free Exit situations. Panic bar not available without mesh.

## Standard powder coating color selections:





HS430 with mesh filler barrier and HS336-ADA mesh gate.



HS348-ADA galvanized gate and turnstile

# **The High-Security Series**

## Manual or Electronic Passage Gate | Interior & Exterior Application

### **Applications:**

Ideal for controlling orderly flow of foot traffic in both indoor and outdoor settings (matching gate to our High-Security Full-Height Single and Tandem Turnstiles)

#### **Product Features:**

## Materials and Finishes available in your choice of:

- Hot dipped galvanized carbon steel
- Carbon steel with powder coating
  (standard color is black/ other colors available upon request)
- Our signature 304 stainless steel, No. 4
  satin finish

### **Design & Construction:**

- Designed for secure operation with aesthetics in mind
- Featuring fully welded exterior components
- Minimal exposed hardware
- Heavy gauge materials meeting ASTM standards

### **Installation Methods:**

- · Core drilling of frame posts (preferred)
- 1/2" concrete anchors from tread plate (requires removing core legs from frame)

## **Operation:**

- Field reversible electronic strike (24VDC) can be set to lock or open on power failure
- Gate can also be unlocked with no power by configuring the strike fail lock and using a key
- Gate automatically swings closed with standard hydraulic door closer
- Voltage for electronic strike can be taken from nearby turnstile power supply
- Opening force: 5ft. lbs.

#### **Options:**

- Panic bar (-ms only)
- Magnetic lock (replaces strike)
- Motorized gate opener for interior applications only (requires 110VAC, adds 3" to overall height of gate)
- Push buttons (wired or wireless)
- Variable passage widths (up to 40"); or you can choose our 48" option
- Additional options available upon request

#### **Dimensions:**

### HS336-ADA/HS348-ADA

- Size of opening (pedestrian clearance):
- HS336-ADA 36" (914.4mm)
- HS348-ADA 48" (1219.2mm)

#### Frame:

2" X 3" (50.8mm X 76.2mm) 11 gauge box tubing

#### Swing Gate:

• 2" X 2" (50.8mm X 50.8mm) 11 gauge box tubing

**Exterior Height:** 

•91" (2311.4mm)

## Interior Height:

• 87.812" (2230.4mm)

#### Available Door Filler Materials:

- 1 1/2" Diameter 14 gauge (38.1mm)
- 1 3/4" Diameter 14 gauge (44.4mm) (HD Model) (16 gauge on stainless models)
- 3/4" #9 Expanded Metal Mesh (Flattened) (MS-Mesh Model)

\* Dimensions are subject to change without notice

#### **Standard Hardware:**

#### Door Closer:

Locinox Mammoth 180

#### Deadlatch:

Adams Rite 4510 Series with 31/32" Backset

#### Strike:

Adams Rite 7100 Series Electronic Strike, 24VDC

#### Cylinder:

- · Schlage C keyway standard
- SFIC available

#### **Optional Hardware:**

#### Door Opener:

Norton 5730 Low Energy Operator, Aluminum

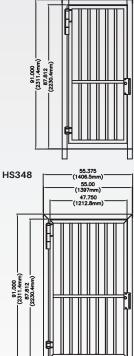
#### Push to Exit Panic Bar:

- Adams Rite 8400 Exit Device, Aluminum
- We can source additional custom hardware choices. Please provide your required specs for a quotation.

#### Matching Full-Height Turnstiles Available in Single (HS427-S, HS430-S, HS439-S, HS448-S) and Tandem (HS427-T, HS430-T) Designs.

## HS336-ADA | HS348-ADA

HS336



#### Warranty:

Units are warranted against defects in materials and workmanship for a period of one year from date of delivery. See warranty information for specific details.

#### **Electrical Specifications:**

UL Listed Electronic Strike: Input Voltage: 24VDC Input Current: 170 mA

#### **Standards and Codes:**

Austenitic stainless steel: ASTM A240, A249, A276

Hot rolled steel: AISI C-1020, AISI C-1018

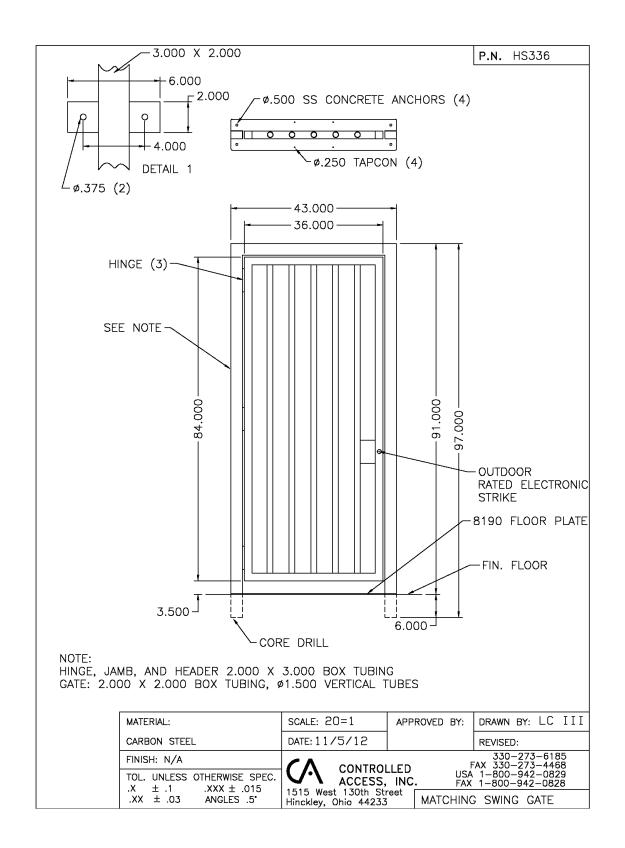
Hot dipped galvanizing: ASTM A-143, ASTM A-153-80

All fasteners provided meet IFI ANSI/ ASME Fastener Standards

American Welding Society (AWS) Standard D 1.1



Controlled Access, Inc. is certified by Advantage International Registrar to be an ISO 9001:2015 company



## Pre-installation Tips for the HS336 Full Height ADA Gate

Before installing the HS336 ADA Gate, make sure to review these pre-installation tips to ensure a successful installation.

Before you get started:

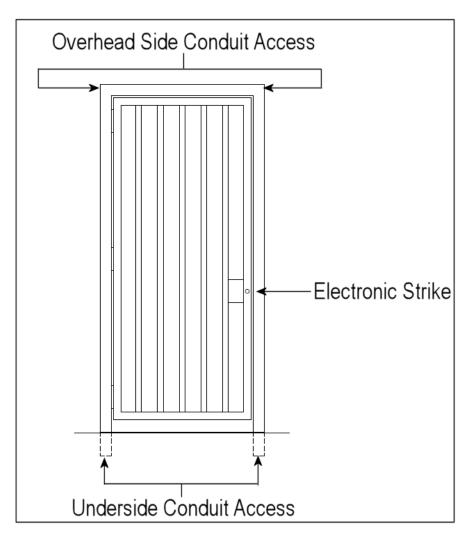
- We recommend core drilling to install the HS336 gate. Should you decide not to core drill, cutting the legs off underneath the tread plate is required.
- If you are electronically locking or unlocking the gate, be aware of the various methods to accessing the electronic strike before installing. Details are provided later in this manual.
- Although the strike is field reversible, each gate comes pre-configured to lock or open upon power failure. We configure these gates based on how they were ordered. Manual gates will always need to have the strike configured as fail lock.
- It is **crucial** that the frame is installed squarely. The provided floor plate on the gate helps to ensure a square installation, but anchoring to unlevel concrete may throw this off.



Note: Failure to install the frame square can result in the gate failing to lock properly. Take advantage of the provided spacers and floor plate when core drilling to ensure proper installation.

## Electrical Information for the HS336 Full Height ADA Gate

Should your facility require it, the HS336 can easily be integrated into access control systems. Each gate has a bracket on each side of the top which has conduit access. This bracket can also be utilized to bolt onto a Controlled Access full height turnstile as well (the conduit holes align on the mainframe of the turnstile as well as the bracket on the gate). Additionally, the 2" x 3" frame can be utilized from the floor to provide conduit access to the electronic strike. The diagram below calls out these convenient locations.



If utilizing the strike electronically, provide 24VDC voltage to unlock it. Depending on whether the strike fails locked or fails open, a normally open or normally closed relay contact is required. Strikes configured to fail lock require voltage to unlock, while fail open strikes require voltage to lock. The key or optional panic bar can always be used to override this and manually unlock the gate.

## Installation Instructions for the HS336 Full Height ADA Gate

## **Preferred Installation Method**

- 1. Review pre-installation tips, verify gate swing direction & layout holes to be drilled.
- 2. Core drill 4" diameter holes 40" on center, 6" deep.
- 3. Fill core drilled holes with fast set mortar, following the manufacturer's instructions.
- 4. Lift the gate vertically and slide the legs into core drilled holes.
- 5. Install 3/16" flat head Tapcons<sup>™</sup> into inner holes on the tread plate to secure the walk path.
- 6. Attach gate to turnstile or adjoining wall / structure utilizing mounting brackets on both sides of the gate.
- 7. Make electrical connections to the strike, if required.

## **Alternate Installation Method**

- 1. Review pre-installation tips, verify gate swing direction & layout holes to be drilled.
- 2. Remove 2" x 3" x 6" legs from underside of floor plate with a band saw.
- 3. Utilizing the floor plate as a template, mark the outer holes for  $\frac{1}{2}$ " concrete anchors
- 4. Drill ½" holes into the concrete pad for wedge type concrete anchors.
- 5. Install wedge type concrete anchors into ½" holes, following the manufacturer's directions for concrete anchor installation.
- 6. Place gate onto anchors.
- 7. Install nuts onto  $\frac{1}{2}$ " anchors to ensure the gate is properly secured to the ground.
- 8. Install ¼" flat head Tapcons<sup>™</sup> into inner holes on the tread plate to secure the walk path.
- 9. Attach gate to turnstile or adjoining wall / structure utilizing mounting brackets on both sides of the gate.
- 10. Make electrical connections to the strike, if required.

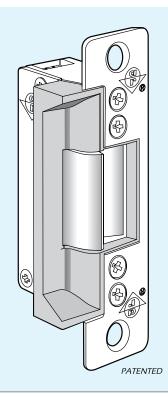
## 7100, 7101 Electric Strikes



7100, 7101 Electric Strikes with 4-7/8" faceplates are designed for Adams Rite deadlatches or cylindrical locksets with 1/2" to 5/8" latchbolt projection. For use in aluminum jambs and stiles.

## **Function**

Remote electrical control of any door equipped with an Adams Rite 4500, 4700, or 4900 Series (or similar) Deadlatch or cylindrical (key-in-knob/lever) type lockset with 1/2" to 5/8" latchbolt projection. Electrical actuation unlocks strike jaw, releasing latchbolt so door can be opened without operating latch itself. Extremely compact mechanism fits into aluminum jamb (or opposing door) sections as shallow as 1-5/8". Fits existing prep for discontinued Adams Rite 7000, 7500, 7800 Electric Strikes.



## **Specifications**

#### FAIL-SAFE/FAIL-SECURE

• Field convertible from one mode to the other. However, AC intermittent solenoid must not be used continuously in either.

#### CASE

• Approximately 1" x 3-3/8" x 1-5/8" deep.

#### STRIKE LIP

 Basic 7100 strike has lip of proper length for 1-3/4" thick door that closes flush with jamb edge. Where door thickness or jamb shape differs from this standard relationship, lip extension kits are available, specified by last dash number. Not available on 7101.

#### STRIKE OPENING

 5/8" x 1-7/16" x 1/2" deep. Bolt retainer jaw is stainless steel. Strike accepts bolt of any Adams Rite 4500, 4700 (discontinued), or 4900 Deadlatch or cylindrical latches.

#### FACEPLATE

 Measures 1-1/4" x 4-7/8". 7100 has flat faceplate; 7101 is radiused to match nose on inactive leaf in a pair of narrow stile glass doors. Available in a wide range of architectural finishes.

#### VOLTAGE

• Available in 12 or 24 volt AC and DC. DC continuous units are silent, AC intermittent units "buzz" on operation.

#### **CURRENT DRAW/AMPS**

VOLTS	AC INTERMITTENT	DC CONTINUOUS
12	1.42	0.33
24	0.74	0.17

#### STANDARD PACKAGE

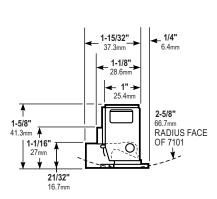
 Individually boxed with mounting screws, mounting clips, adhesive shims to accommodate jamb or stile extrusion thickness greater or less than nominal 1/8".

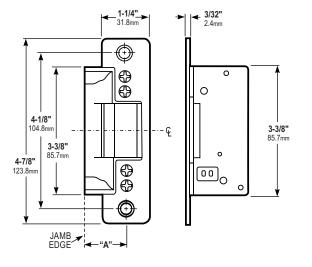
#### OPTIONS

 Available with two monitoring signal switches which sense whether latchbolt is in strike and whether strike jaw is blocked. Choice of mounting in AC and DC for intermittent or continuous duty. 7100 Electric Strike (flat faceplate) available with extended strike lip. Specify assembled for either fail-secure (locked when unpowered) or failsafe (locked when powered) operation, but can be field converted to the other mode. All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

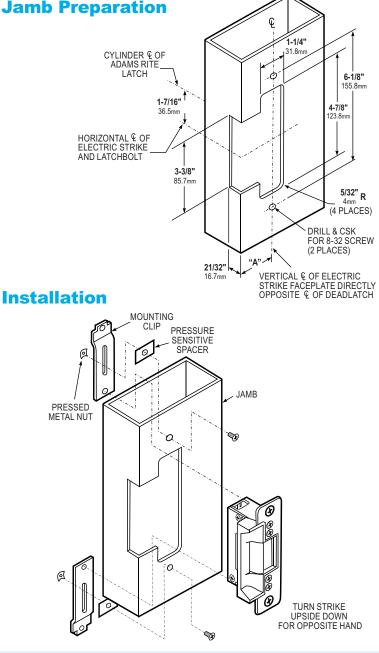
## Dimensions







STANDARD UNIT FITS DIM. "A" UP TO 1-1/16" (SEE HOW TO ORDER) MOUNTING BRACKETS FURNISHED



### HOW TO ORDER 7100, 7101 ELECTRIC STRIKE Specify quantity and the following information. Order related products separately.

PRODUCT NO.	FACEPLATE SHAPE	VOLTAGE	VOLTAGE CURRENT AND DUTY FEATURES*		FINISH**	LIP EXTENSIONS (DIM. A) (Door Centerline to Jamb Edge)	
710	0	0-31		0	-628	-00	
	0 Flat	3 12 Volt	1 DC Continuous or Intermittent	0 Standard/Fail-Secure	313 Dark Bronze Anodized	00 1-1/16" or less	<b>05</b> 2"
	1 Radius	4 16 Volt	4 AC Intermittent	5 Fail-Safe	335 Black Anodized	<b>01</b> 1-1/2"	<b>07</b> 2-1/4"
		5 24 Volt		7 Monitored/ Fail-Safe	626 Satin Chrome	<b>02</b> 1-5/8"	<b>09</b> 2-1/2"
				9 Monitored/ Fail-Secure	628 Clear Anodized	<b>03</b> 1-3/4"	<b>12</b> 2-7/8"

\*Fail-secure can be field converted to fail-safe or vice-versa. \*\*7101 available in 628, 313, 335 only.

RELATED PRODUCTS When purchasing this product, please consider the following related products, available separately:

Options	Power	Deadlatches
Lip extensions.	4603 Rectifier, 4605/4606 Transformer, Piezo Horn	4500 and 4900 Series Deadlatches. Note that 4700 Deadlatch is
	audible indicator, PS-1.	discontinued and replaced by 4900 Deadlatch.

## Changing From Fail-Safe to Fail-Secure & Vice-Versa:

- 1) Remove faceplate, subcover (2), & cover (1)
- 2) Remove latch (7), blocking arm (6), blocking arm return spring (16), & retainer plate (15)

## **Changing From Fail-Secure to Fail-Safe:**

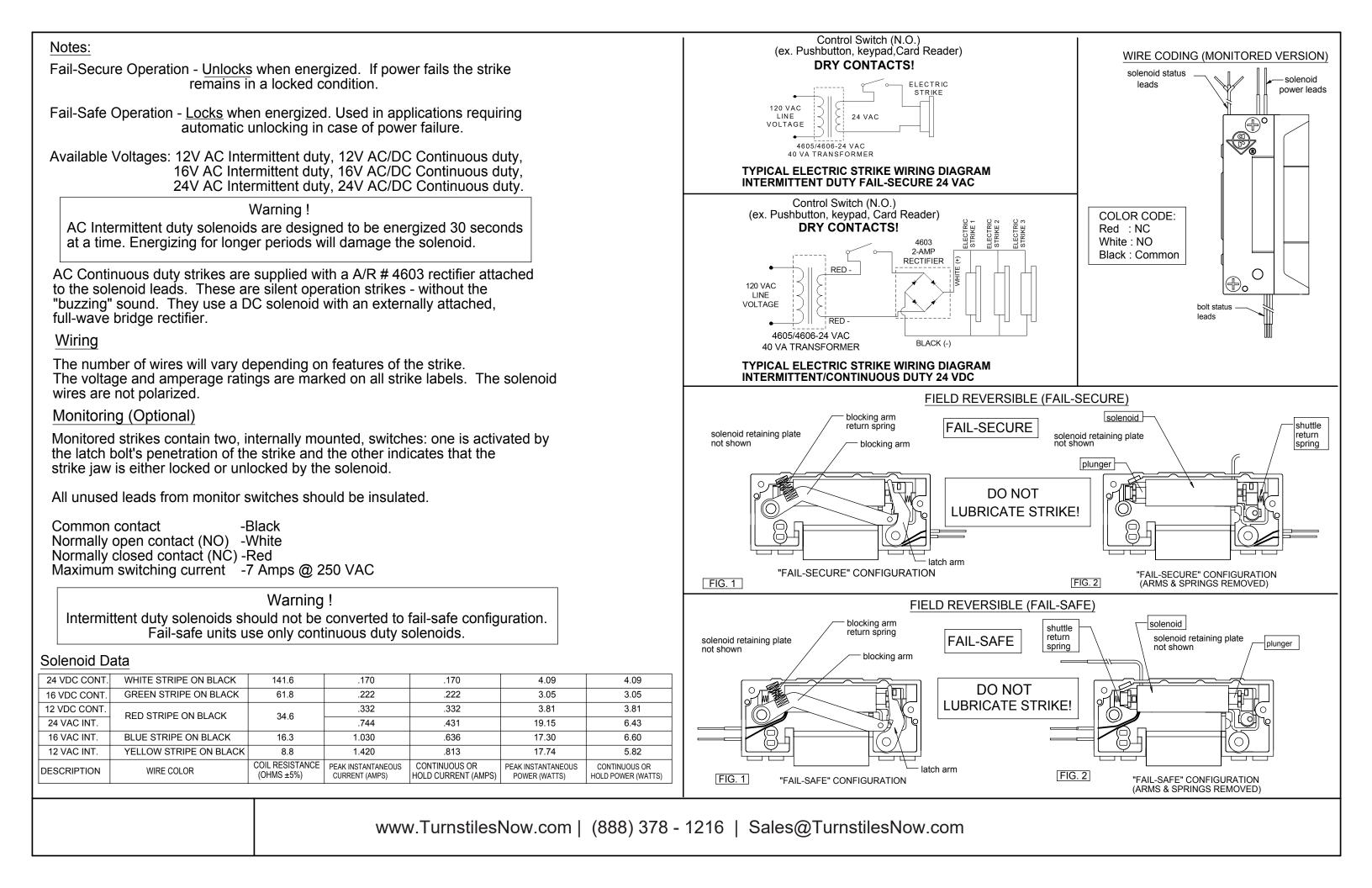
- 1) With bolt facing you remove solenoid (3), plunger (4), & shuttle return spring (5).
- 2) Place shuttle return spring (5) on left-hand side of shuttle (17). Place solenoid and plunger facing the side opposite of shuttle return spring into groove on the shuttle. (See page three for diagram)
- 3) Place retainer plate on top of solenoid and place latch, blocking arm & blocking arm return spring in original position.

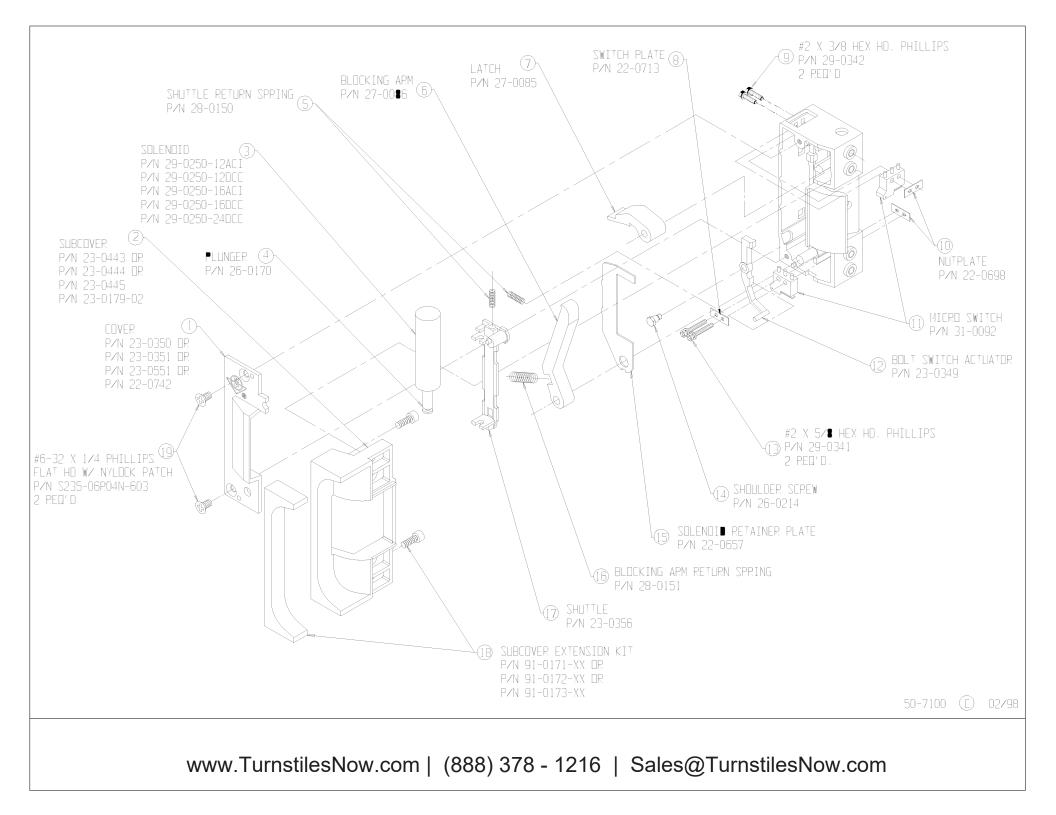
## Note: Fail-safe must be continuous duty only.

## **Changing from Fail-safe to Fail-secure:**

- 1) With bolt facing you remove solenoid (3), plunger (4) & shuttle return spring (5).
- 2) Place shuttle return spring (5) on right hand side of shuttle (17). Place solenoid and plunger facing the side opposite of shuttle return spring into groove on shuttle. (See page three for diagram)
- 3) Place retainer plate on top of solenoid and place latch, blocking arm & blocking arm return spring in original position.

Faceplate, subcover & cover can now be added to close strike.





# 4510 Standard Duty Deadlatch



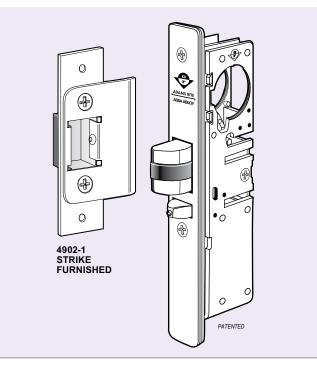
4510 Standard Duty Deadlatches provide flexible traffic control during and after business hours.

## **Function**

The 4510 Standard Duty Deadlatch offers flexibility of traffic control during and after business hours. A reverse turn of the key while the bolt is held retracted retains the bolt to allow two-way traffic for hospitals, banks, stores, and other buildings which require free entrance at certain times and exit-only at other times. Interchangeable, without stile modification, with any MS1850A or MS1850S Deadlock of same backset and faceplate shape. Does not, however, provide the same maximum security level as the MS<sup>®</sup> Deadlock.

## **Operation**

Turn key or operate handle to retract spring-loaded Latchbolt. To hold bolt retracted, push it in and secure by reverse turn of key. Uses any standard mortise cylinder with  $MS^{\circledast}$  dimensioned cam.



## **Specifications**

#### BOLT HOLDBACK

 While bolt is held fully retracted, a reverse turn of the key retains the bolt, allowing the door to be free swinging.

#### CYLINDER BACKSET

• 7/8", 31/32", 1-1/8" or 1-1/2" only.

#### CASE

 Measures 1" x 5-13/16" x depth. Depth varies by backset (see table on back of page). Steel with corrosion-resistant plating.

#### LATCHBOLT

 1/2" x 1" x 1/2" throw. All metal with hardened steel internal pins. Handing is reversible without special tools.

#### AUXILIARY BOLT

 All metal. Deadlocks latchbolt to prevent "loiding" or case-knife entry.

#### FACEPLATE

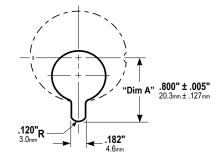
Measures 1" x 6-7/8".

#### STRIKES

 Standard strike furnished is 4902-01 for flat jamb where door closes flush or nearly flush. Available separately: radius strike for opposite stile in paired doors; longer strike (4901) to cover slot strike of MS lock; long lip strikes for centerhung doors.

#### **CYLINDER CAM**

 4510 Standard Duty Deadlatches are operable by any standard 1-5/32" diameter mortise cylinder with MS<sup>®</sup> cam dimensioned as shown. Cylinders with MS<sup>®</sup> cams can be readily obtained from most cylinder manufacturers. See CYLINDERS section for cylinder make, thumbturn and trim ring information.



#### **OPTIONS**

 Backset, faceplate shape, strike, handing, and finish must be specified when ordering.

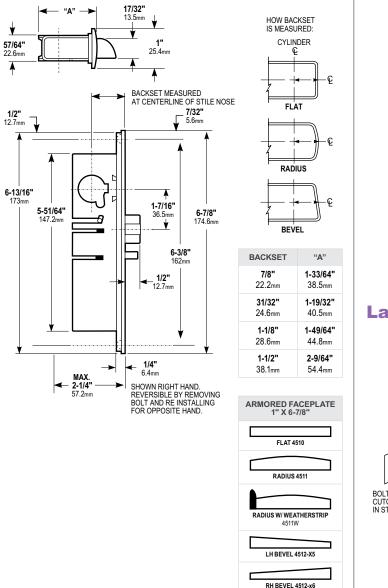
#### STANDARD PACKAGE

 Individually boxed with strike, and machine screws for mounting. Cylinders, paddles, and handles available separately. Shipping weight: 1-1/4 lbs.



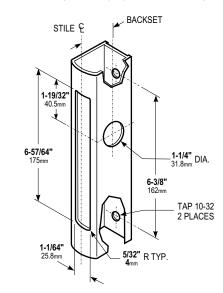
All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

#### **Dimensions**

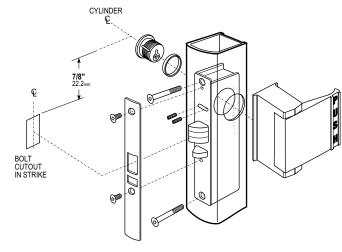


#### Stile Preparation

Identical to MS 1850A Series (See also prep for 4590 Paddle)



## **Latch Paddle & Cylinder Installation**



#### HOW TO ORDER 4510 STANDARD DUTY DEADLATCH

Specify quantity and the following information. Order related products separately.

Product No.	FACEPLATE	BACKSET	HANDING	STRIKE SIZE	STRIKE SHAPE/LIP LENGTH	FACEPLATE FINISH
451	1	-3	6	-2	01	-628
	<b>0</b> Flat	<b>1</b> 7/8"	5 LH or RHR	1 Mortised (4901) 4-5/8"	01 Flat/Standard Jamb	313 Dark Bronze Anodized
	1 Radius	<b>2</b> 31/32"	6 RH or LHR	2 Mortised (4902) 2-5/8"	02 Radius/Standard Stiles	335 Black Anodized
	1W Radius with weatherstrip	<b>3</b> 1-1/8"			17 Flat/Center Hung 4" Jamb	628 Clear Anodized
	2 Bevel	<b>4</b> 1-1/2"			21 Flat/Center Hung 4-1/2" Jamb	

RELATED PRODUCTS When purchasing this product, please consider the following related products, available separately:

Accessories Cylinders	5	Trim	Electric Strikes
0	ndard Duty Deadlatches are operable by any 1-5/32" diameter mortise cylinder with MS <sup>®</sup> cam.	Entry trim, paddles, handles and lever operators.	Application specific.

# **MAMMOTH-180: INSTALLATION INSTRUCTION**

