# 1190 / 2090 **Series**

Heavy Duty Right Angle Flectric Bolt Locks



Designed and patented by SDC, Spacesaver® right angle bolt locks represent a fundamental innovation in electric locking technology for access control applications. Spacesaver® bolts project at right angles to the lock mechanism, allowing installation of Spacesaver® locks, by means of a simple mortise cutout, in virtually any standard frame, or in most door lock stiles. With the entire lock concealed, aesthetic acceptability is complete, security is greater and installation in old or new construction is fast, easy and economical.

All Spacesaver® locks are equipped with stainless steel bolts, specification grade solenoids and automatic relock ball switches. Bolts rotate freely, making attempts to tamper or cut extremely difficult. Specification grade solenoids facilitate superior overall performance in both force and longevity, when compared to commercial grade solenoids. Automatic relock ball switches keep the bolt retracted while the door is open. The door depresses the ball switch on closure, causing the bolt to project automatically, locking the door. Additionally, ball switches are field adjustable to compensate for wide door gap and bidirectional to permit use on swinging and sliding doors.

1190Al and 2090AH models utilize a 3/4" diameter solid stainless steel bolt, an extra heavy duty housing design and solenoid. Designed to provide years of trouble free operation, 1190A and 2090AH bolt locks are the most powerful units available on the market. There are only three moving parts within the hefty solid metal body of the 1190Al and only five moving parts in the 2090AH. The power and strength of the solenoids far surpass any competitive models.



1190Al Heavy Duty Right Angle Bolt Lock, Failsafe

2090AH Heavy Duty Right Angle Bolt Lock, Failsecure



### STANDARD FEATURES

- Concealed mortise right angle design
- · Stainless steel bolt
- · Specification grade solenoid
- Automatic relock
- Field adjustable and bidirectional automatic relock ball switch
- · Mounting tabs included
- · Voltage and current spike protection
- Power regulator included\*
- \* For 1190A models only.

## **OPTIONAL FEATURES**

- Door position status (DPS)
- Bolt position status (BPS)









# **APPLICATIONS**

### **FAILSECURE OPERATION**

Bolt retracts when energized. Bolt thrown when de-energized or during a power failure. Recommended for high security applications only. 2090A models are failsecure.

#### **FAILSAFE OPERATION**

Bolt thrown when energized. Bolt retracts when de-energized or during a power failure. Recommended for fire life safety applications. 1190A models are failsafe.

### WOOD APPLICATIONS

Wood applications require a larger faceplate. 1190AIWD models are failsafe operating bolt locks for wood applications and utilize a 11" x 134" x 1/8" faceplate.

1091 / 1291

CLICK TO VIEW





1190AIU 1190AIWDU

FS23M

CLICK TO VIEW

1490 / 2490

CLICK TO VIEW

2090AHU



Series

Jeries	10317 1231	11307 2030	14307 2430	1 020W
Туре	Right Angle	Right Angle	Right Angle	Right Angle
Application	Standard 1¾"	Heavy Duty	Narrow 1½"	Dual Failsafe
Failsafe	1091AI	1190AI	1490AI	FS23MI
Failsecure	1291AH	2090AH	2490AH	
	CLICK TO VIEW		CLICK TO VIEW	CLICK TO VIEW
Series	100 / 200	GL	PD2090	290
		4000	وط آ	
Туре	Conventional	Specialty	Specialty	Specialty
Application	Mortise or Surface Mount	Gate Lock	Panic Device Top Latch Release	Micro Cabinet
Failsafe	110I, 160I, 180AI	GL160AI, GL163AI		290
Failsecure	210H, 260H, 280AH	GL260AH, GL263AH,	PD2090A	290

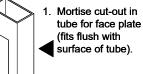
CLICK TO VIEW

1190 / 2090

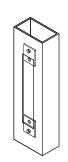
# SPECIFICATIONS

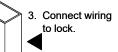
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	1190AI	2090AH	
Mount	Mortise	Mortise	
Operation	Failsafe	Failsecure	
Bolt	¾" Diameter	¾" Diameter	
	Solid Stainless Steel	Solid Stainless Steel	
Bolt Throw	3/4"	3/4"	
Faceplate	8" x 1½" x 1⁄8"	8" x 1½" x ½"	
	11" x 1¾" x 1½" (1190AIWD)		
Strike	4" x 1½" x 1⁄8"	4" x 1½" x ½"	
ID Requirements	8" x 1½" x 1½"	10" x 1½" x 1½"	
Weight	3 lbs	3 lbs	
Input	24 VDC ± 10%	24 VDC ± 10%	
Current Draw	700 mA	2.5 Amp Inrush	
		500 mA Continuous	
Monitoring Contacts	SPDT	SPDT	
	4 Amps @ 30 VDC Resistive	4 Amps @ 30 VDC Resistive	

All Spacesaver locks are easily installed in any existing entrance merely by mortising out a cut-out, attaching the wiring, inserting the lock, and bolting it into position with two attaching tabs. Cutting studs are no longer a problem or expense.

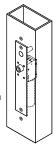


2. Position screws for attaching tabs, drill holes, attach tabs.









# CERTIFICATIONS

UL 10C Positive Pressure Fire Tests of Door Assemblies
ULC-S104 Standard Method for Fire Tests of Door Assemblies
ULC-S533 Egress Door Securing and Releasing Devices



### **FOLLOW STEPS FOR ORDERING**

Designates optional step

