30.1 [1.185]

TRIM PLATE

STATUS INDICATOR

southco

ELECTRONIC KEY PORT

BATTERY BOX CONNECTOR

HOUSING

24.8 [.975]

157.7 [6.207]

132.8 [5.229]

149.5 [5.885]

KNOB (LOCKED POSITION SHOWN)

1.5 [.057]

23.8 [.938]

12.4 [.487]

22.1 [.871]　　17.2 [.677]

40.7 [1.602]

SC-50-1000-10 SHOWN

REVISION HISTORY

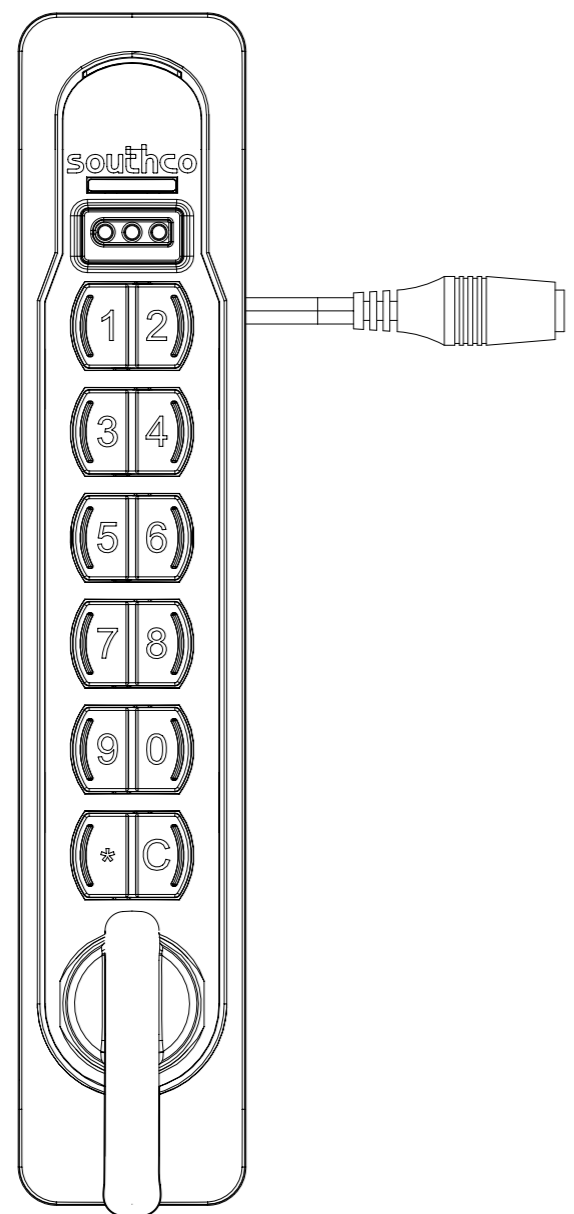| REV	DATE	BY	DESCRIPTION
E	01JUN2018	RKS/VK	PRN: P2018-1333
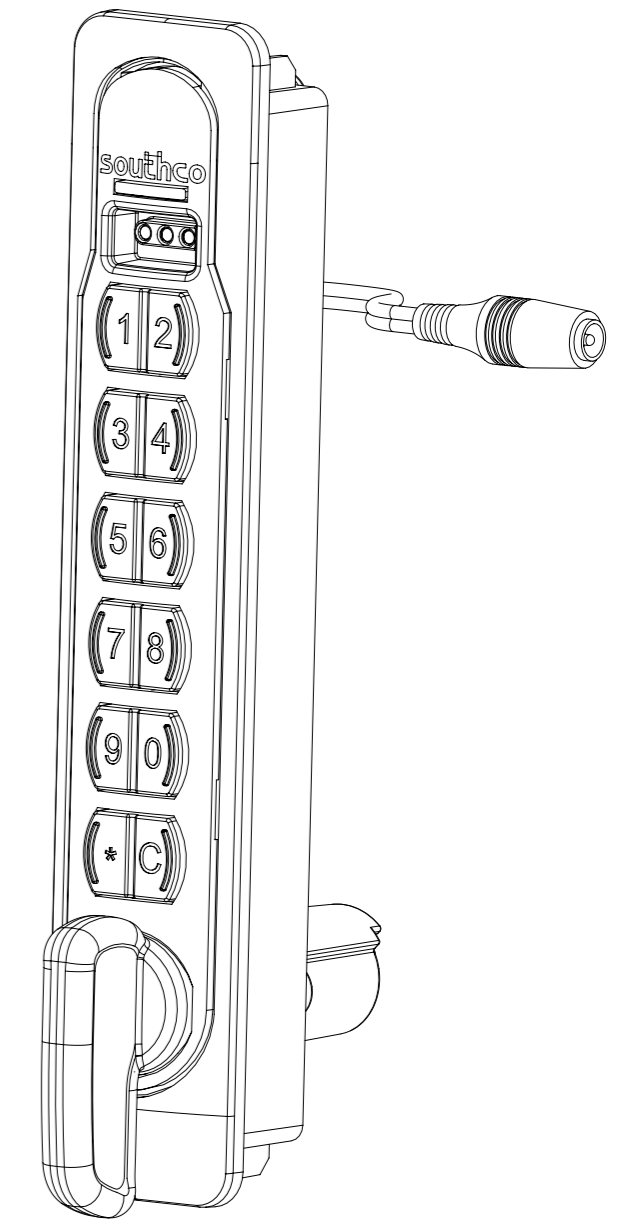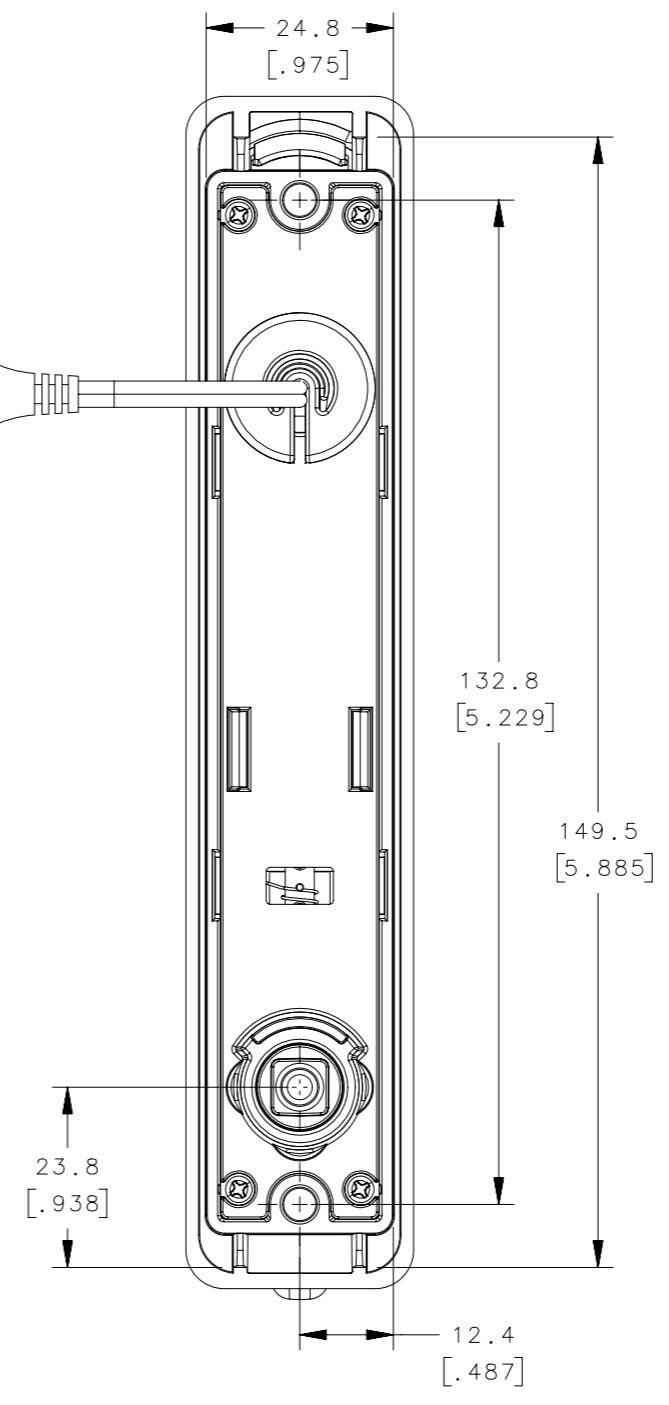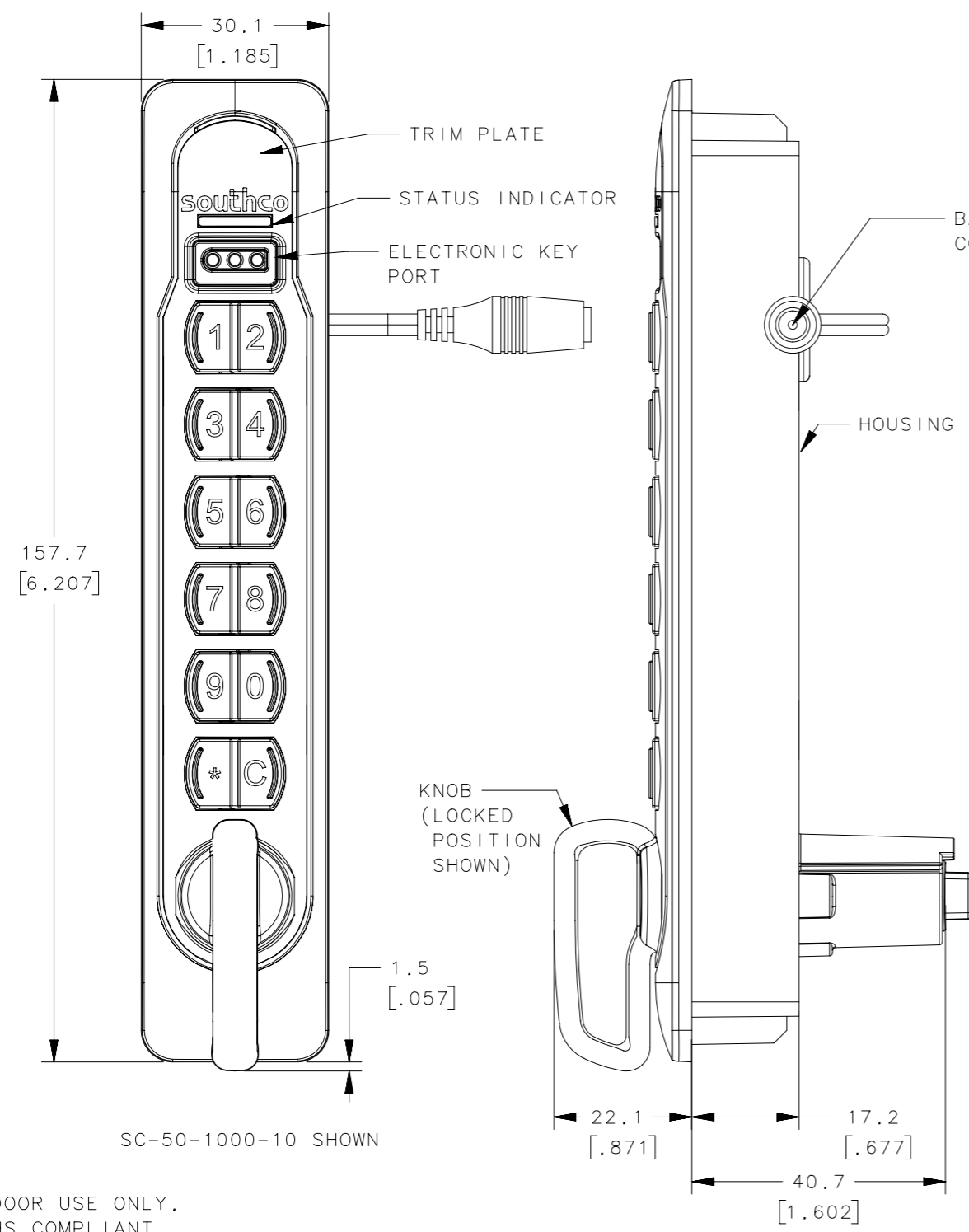
NOTES:
1. INDOOR USE ONLY.
2. RoHS COMPLIANT.
3. OPERATING TEMPERATURE RANGE: 0-50°C.
4. OPERATING VOLTAGE: 4.5 VDC.
   AA (3) BATTERY BOX INCLUDED (BATTERIES NOT INCLUDED).
5. TWO MOUNTING CUPS AVAILABLE TO MEET VARIOUS PANEL THICKNESSES.
   SEE MOUNTING OPTION TABLE ON SHEET 3 OF 6 TO DETERMINE SIZE NEEDED.
   SEE PART NUMBER CONFIGURATOR ON SHEET 2 OF 6 TO DETERMINE PART
   NUMBER TO ORDER.
6. MOUNTING CUP HARDWARE IS PROVIDED IN HARDWARE BAG.
   SEE MOUNTING OPTION TABLE ON SHEET 3 OF 6 FOR PROPER SCREW SELECTION.
   RECOMMENDED TIGHTENING TORQUE: 1.8 N-m.
7. CAM SCREW PROVIDED IN HARDWARE BAG.
   RECOMMENDED TIGHTENING TORQUE: 4.0 N-m.
CAUTION: TO AVOID DAMAGE TO THE LOCKING MECHANISM FIRMLY HOLD KNOB WHEN
         INSTALLING CAM SCREW TO THE PROPER TORQUE.
8. ROTATION LIMITER PROVIDED IN HARDWARE BAG.
   ORIENT ACCORDING TO REQUIRED KNOB CLOCKWISE OR
   COUNTER CLOCKWISE OPERATION.

9. ORDER OPTIONAL MANAGER KEYS (SC-A20-10) FOR BATTERY BACKUP SEPARATELY.
10. ORDER CAMS SEPARATELY. SEE CAM GRIP OPTION TABLE ON SHEET 4 OF 6.
    SEE SOUTHCO DRAWING J-SC-50.
11. SEE J-SC-50-1000-M FOR OPERATING INSTRUCTIONS.
12. ORDER SPACER (SC-3004-01) SEPARATELY. SEE SOUTHCO DRAWING
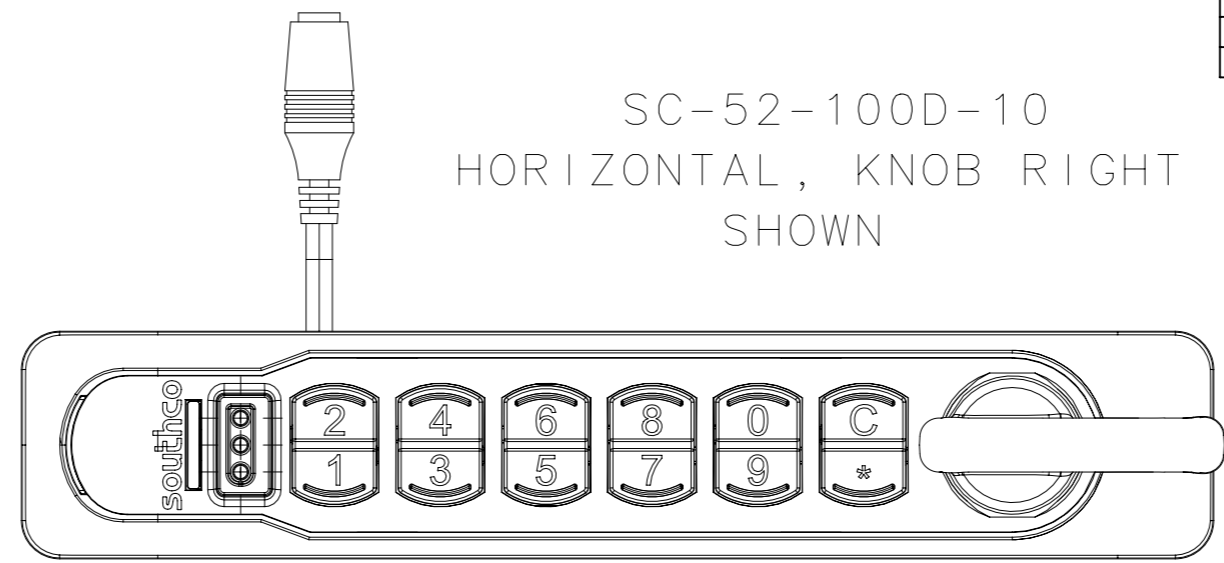   J-SC-3000. SEE SHEET 4 OF 6 FOR DETAILS.

<u>SEE SHEET 2 OF 6</u>
<u>FOR LATCH ASSEMBLY NUMBERS</u>

THIRD ANGLE PROJECTION

MILLIMETERS [IN]

TOLERANCES UNLESS OTHERWISE NOTED

ALL DIMENSIONS WITHOUT
TOLERANCES ARE FOR
REFERENCE ONLY.

PER ASME Y14.5M-1994

southco®
CONNECT·CREATE·INNOVATE

DESCRIPTION
SELF CONTAINED KEYPAD LATCH
CODE MANAGED

SIZE	SYSTEM	DWG NO.	
A3	NX		J-SC-50-1000

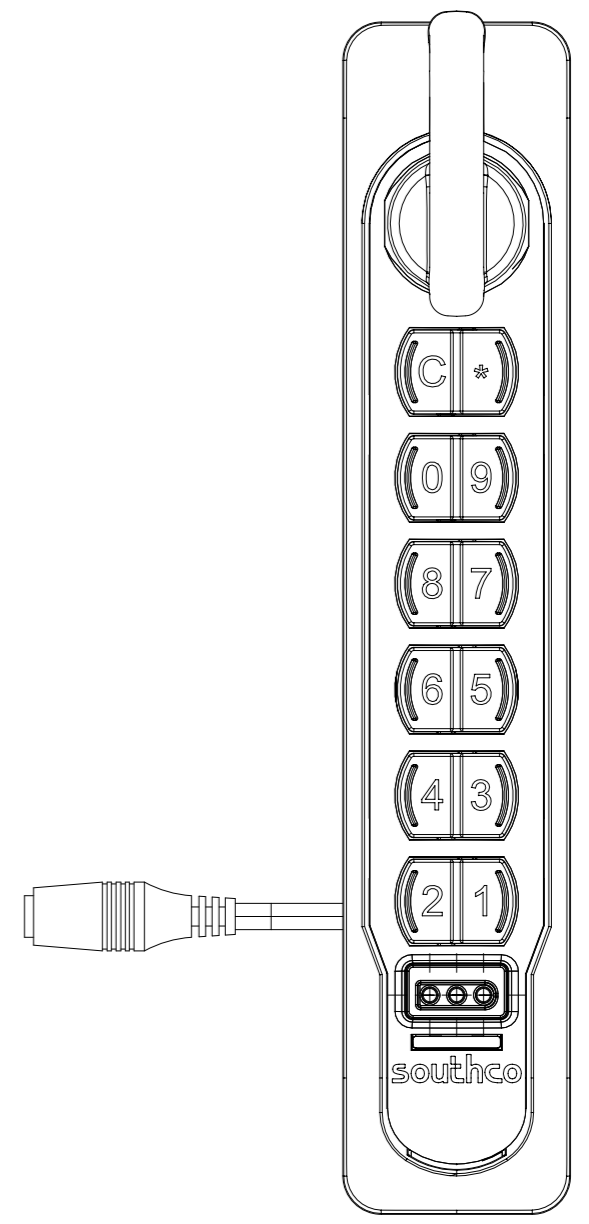| DRAWN BY	DATE	SCALE	SHEET
TJW	21OCT2015	1:1	1 OF 6

SC-52-100D-10
HORIZONTAL, KNOB RIGHT
SHOWN
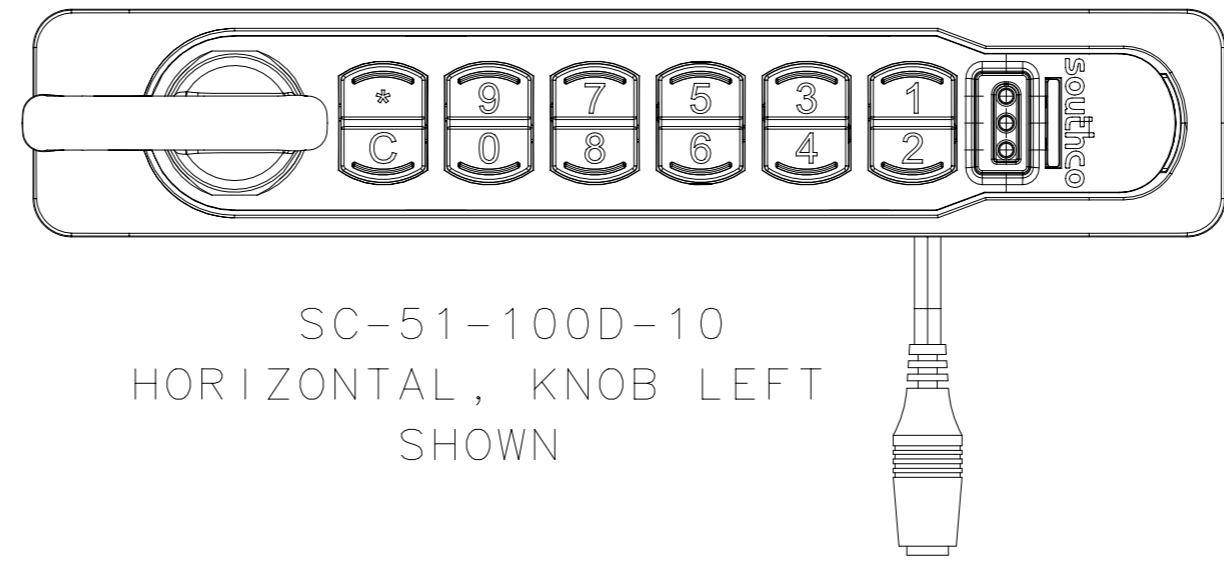
SC-51-100D-10
HORIZONTAL, KNOB LEFT
SHOWN

SC-50-100D-10
VERTICAL, KNOB DOWN SHOWN

SC-53-100D-10
VERTICAL, KNOB UP SHOWN

SC-5R-100D-XX

ORIENTATION
0-VERTICAL, KNOB DOWN
1-HORIZONTAL, KNOB LEFT
2-HORIZONTAL, KNOB RIGHT
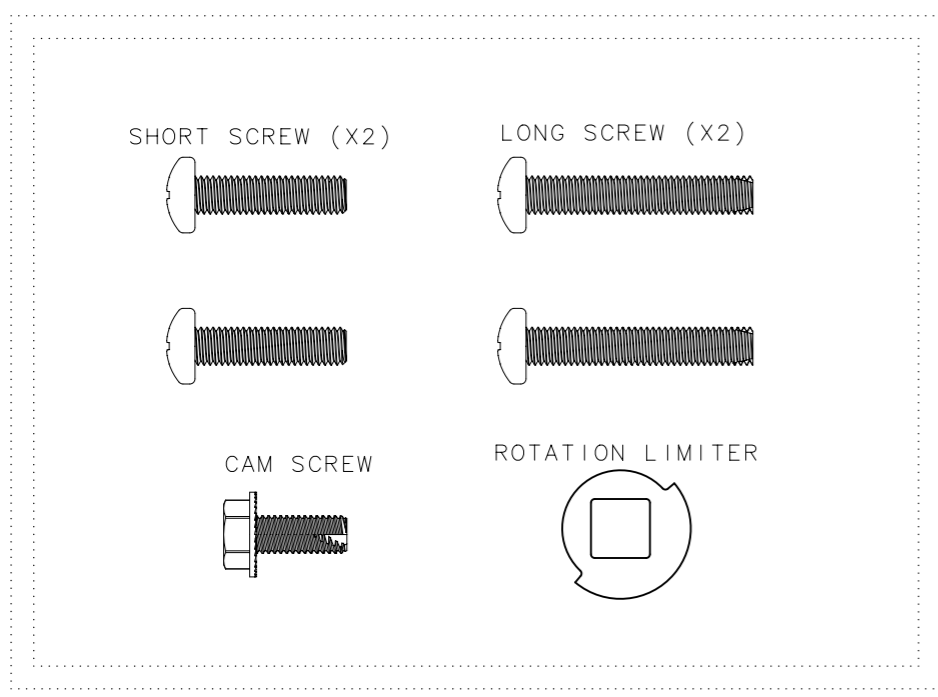3-VERTICAL, KNOB UP

BLANK = WITHOUT LOGO
-10 = SOUTHCO LOGO

MOUNTING CUP
0-TALL (20.25 [.797])
1-SHORT (8.25 [.325])
SEE MOUNTING CUP
SELECTION TABLE

THIRD ANGLE PROJECTION

MILLIMETERS [IN]

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REFERENCE ONLY.

PER ASME Y14.5M-1994

southco®
CONNECT·CREATE·INNOVATE

DESCRIPTION
SELF CONTAINED KEYPAD LATCH
CODE MANAGED

SIZE	SYSTEM	DWG NO.	
A3	NX		J-SC-50-1000

DRAWN BY	DATE	SCALE	SHEET
TJW	21OCT2015	1:1	2 OF 6

SHORT SCREW (X2)   LONG SCREW (X2)

CAM SCREW   ROTATION LIMITER

CONTENTS OF INCLUDED HARDWARE BAG

48.5
[1.909]

18.5
[.728]

68.5
[2.697]

HOOK AND LOOP
FASTENER

152
[6]
LENGTH WHEN
UNCOILED

MOUNTING OPTIONS		
PANEL THICKNESS	MOUNTING CUP	MOUNTING SCREW*
1-5 [0.04-0.19]	TALL CUP	SHORT SCREW (2)
>5-10 [0.20-0.39]	TALL CUP	SHORT SCREW (2)
>10-15 [0.40-0.59]	TALL CUP	LONG SCREW (2)
>15-20 [0.60-0.79]	SHORT CUP	SHORT SCREW (2)
>20-25 [0.80-0.98]	SHORT CUP	LONG SCREW (2)

*SELECT THE 2 SCREWS NEEDED

20
[.787]

30
[1.181]

SHORT SCREW

LONG SCREW
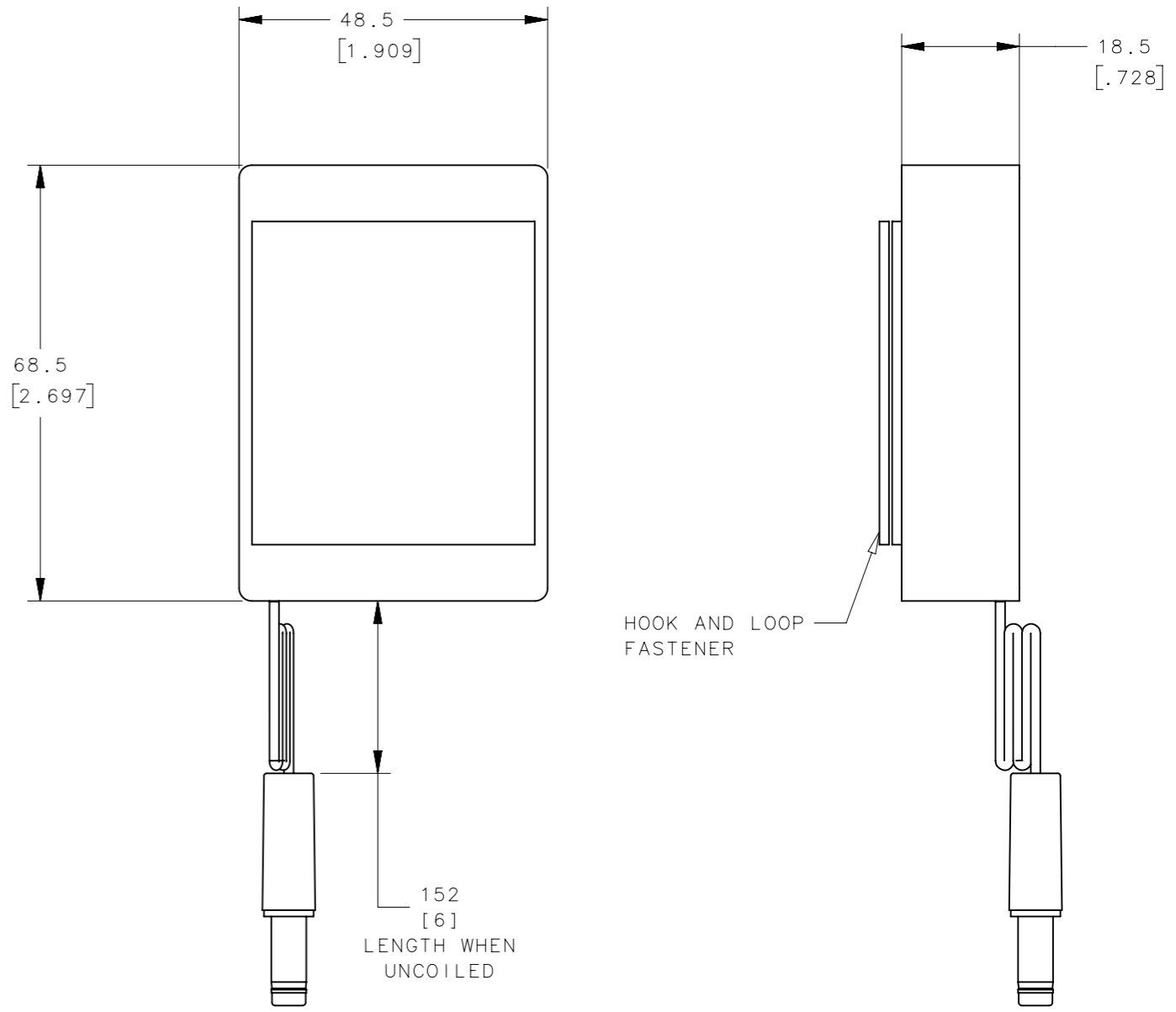
BATTERY BOX

(3 AA BATTERIES NOT INCLUDED)

TALL MOUNTING CUP

20.2
[.797]

SHORT MOUNTING CUP

8.2
[.325]

THIRD ANGLE
PROJECTION

MILLIMETERS [IN]

TOLERANCES UNLESS OTHERWISE NOTED

ALL DIMENSIONS WITHOUT
TOLERANCES ARE FOR
REFERENCE ONLY.

PER ASME Y14.5M-1994

southco®
CONNECT·CREATE·INNOVATE

DESCRIPTION
SELF CONTAINED KEYPAD LATCH
CODE MANAGED

SIZE	SYSTEM	DWG NO.	
A3	NX		J-SC-50-1000

DRAWN BY	DATE	SCALE	SHEET
TJW	21OCT2015	1:1	3 OF 6

GRIP $^{+2}_{-0}$ (MEASURED FROM THE FRONT OF THE PANEL TO THE LATCHING SURFACE.)

PANEL

55 [2.165]

FRAME

42 [1.654]

(60) [(2.363)]

54 MAX [2.126]
(SPACING FROM THE CENTER OF PANEL PREP CUTOUT TO EDGE OF LATCHING POINT)

STANDARD LATCH ASSEMBLY
WITHOUT OPTIONAL SPACER

GRIP $^{+2}_{-0}$

(MEASURED FROM THE FRONT OF THE PANEL TO THE LATCHING SURFACE + SPACER HEIGHT {20MM SPACER SHOWN FOR REFERENCE})

SPACER

PANEL

(20)

35 [1.378]
OPTIONAL SPACER AVAILABLE TO REDUCE LATCH DEPTH SEE J-SC-3000 SPACER SOLD SEPARATE

FRAME

SEE J-SC-3000 FOR MOUNTING CUP SIZING

42 [1.654]

57 [2.244]

54 MAX [2.126]
(SPACING FROM THE CENTER OF PANEL PREP CUTOUT TO EDGE OF LATCHING POINT)
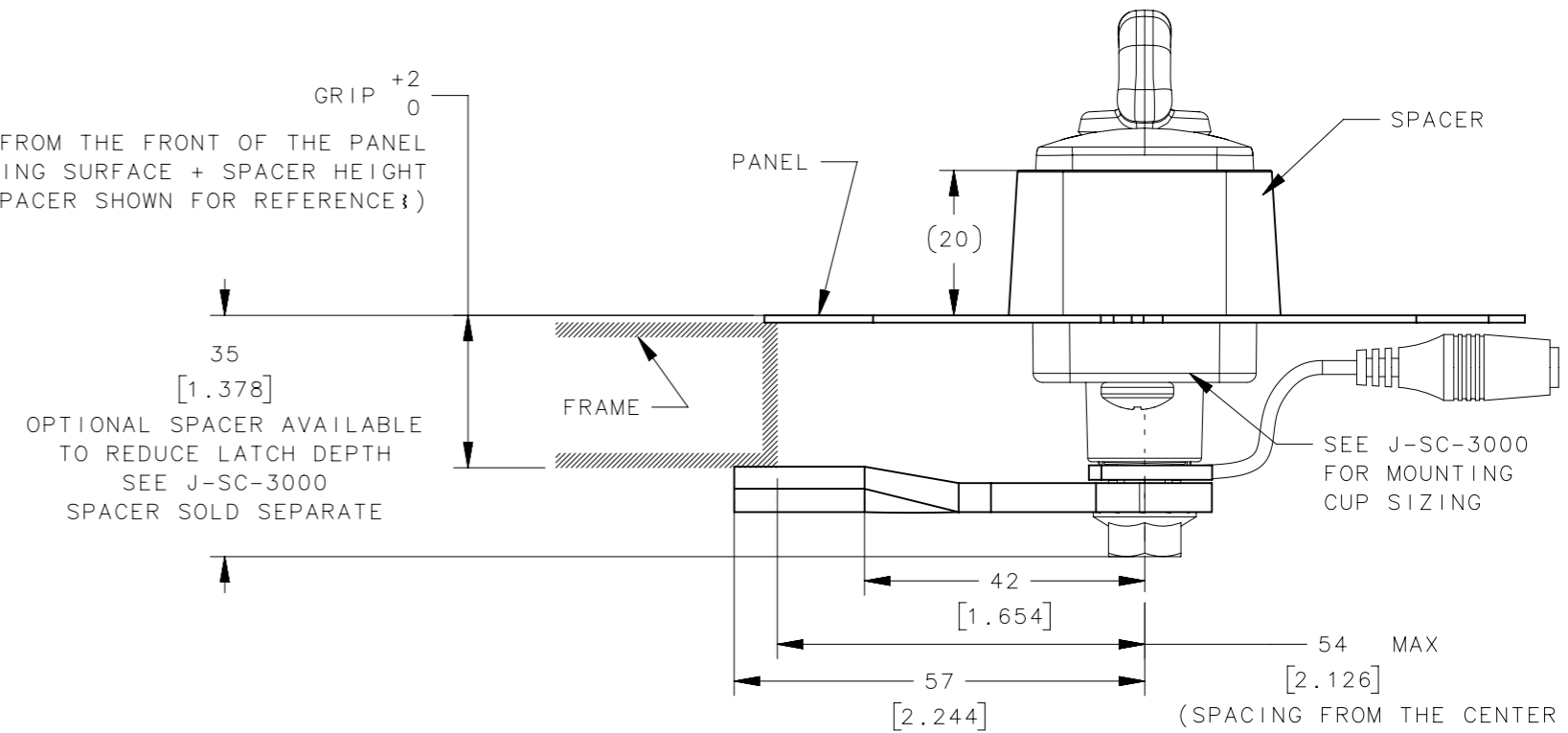
LATCH ASSEMBLY WITH OPTIONAL
SPACER SC-3004-01

60 [2.362]
MINIMUM CLEARANCE FOR CAM SWING ARC

CAM GRIP OPTIONS (ORDER SEPERATELY)	
PART NUMBER	GRIP
SC-5000	42.5 [1.67]
SC-5002	40.5 [1.58]
SC-5004	38.5 [1.52]
SC-5006	36.5 [1.44]
SC-5008	34.5 [1.36]
SC-5010	32.5 [1.28]
SC-5012	30.5 [1.20]
SC-5014	28.5 [1.12]
SC-5016	26.5 [1.04]
SC-5018	24.5 [0.96]
SC-5020	22.5 [0.89]
SC-5022	20.5 [0.81]
SC-5024	18.5 [0.73]
SC-5026	16.5 [0.65]
SC-5028	14.5 [0.57]
SC-5030	12.5 [0.49]
SC-5032	10.5 [0.41]
SC-5034	8.5 [0.33]
SC-5036	6.5 [0.26]
SC-5038	4.5 [0.18]
SC-5040	2.5 [0.10]
SC-5042	0.5 [0.02]

THIRD ANGLE PROJECTION

MILLIMETERS [IN]

TOLERANCES UNLESS OTHERWISE NOTED

ALL DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

PER ASME Y14.5M-1994

southco®
CONNECT·CREATE·INNOVATE

DESCRIPTION
SELF CONTAINED KEYPAD LATCH
CODE MANAGED

SIZE A3	SYSTEM NX	DWG NO. J-SC-50-1000
DRAWN BY TJW	DATE 21OCT2015	SCALE 1:1	SHEET 4 OF 6

1mm PANEL SHOWN

MOUNTING CUP
SEE NOTE 5
(TALL CUP SHOWN)

4X R2.0 [.079] MAX

MOUNTING SCREW
SEE NOTE 6
(SHORT SCREW SHOWN)

ROTATION LIMITER
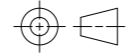SEE NOTE 8
(CLOCKWISE TO UNLOCK
ORIENTATION SHOWN)

$150 \begin{smallmatrix} +0.3 \\ 0 \end{smallmatrix}$

$\left[5.906 \begin{smallmatrix} +.012 \\ -0 \end{smallmatrix} \right]$

CAM
SEE NOTE 12

CAM SCREW
SEE NOTE 7

$25 \begin{smallmatrix} +0.3 \\ 0 \end{smallmatrix}$

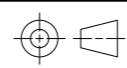$\left[.984 \begin{smallmatrix} +.012 \\ -0 \end{smallmatrix} \right]$

PANEL PREP (SCALE 1:1)
PANEL THICKNESS: 1-25mm [0.04-0.98]

THIRD ANGLE
PROJECTION

MILLIMETERS [IN]

TOLERANCES UNLESS OTHERWISE NOTED

ALL DIMENSIONS WITHOUT
TOLERANCES ARE FOR
REFERENCE ONLY.

PER ASME Y14.5M-1994

southco®
CONNECT·CREATE·INNOVATE

DESCRIPTION
SELF CONTAINED KEYPAD LATCH
CODE MANAGED

SIZE	SYSTEM	DWG NO.	
A3	NX	J-SC-50-1000	
DRAWN BY TJW	DATE 21OCT2015	SCALE 1:1	SHEET 5 OF 6

SC-50-1000 SHOWN WITH OPTIONAL
A5-90-101-11 MULTI POINT
ADAPTER PLATE ASSEMBLY

SEE J-A5-90
FOR ROD SYSTEM

SEE J-A5-90-101-11

THIRD ANGLE
PROJECTION

MILLIMETERS [IN]

TOLERANCES UNLESS OTHERWISE NOTED

ALL DIMENSIONS WITHOUT
TOLERANCES ARE FOR
REFERENCE ONLY.

PER ASME Y14.5M-1994

southco®
CONNECT · CREATE · INNOVATE

DESCRIPTION
SELF CONTAINED KEYPAD LATCH
CODE MANAGED

SIZE	SYSTEM	DWG NO.	
A3	NX		J-SC-50-1000
DRAWN BY	TJW	DATE 21OCT2015	SCALE 1:1	SHEET 6 OF 6

SC-5*R*-100*D*-10 Self-Contained Code-Managed Keypad Latch Operating Instructions

Package Contents

- SC-5*R*-100*D*-10 Self-Contained Code-Managed Keypad Latch (qty1)
- Rotation Limiter (qty 1)
- Cam Screw (qty 1)
- Short Mounting Screw (qty 2)
- Long Mounting Screw (qty 2)
- Battery Box (qty 1)
  (3 AA batteries not included)
- Operating Instructions (qty 1)

Self-Contained Code-Managed Keypad Latch

SC-51-100*D*-10
(Horizontal Rotation – Knob on Left)

SC-52-100*D*-10
(Horizontal Rotation – Knob on Right)

SC-50-100*D*-10
(Vertical Rotation)
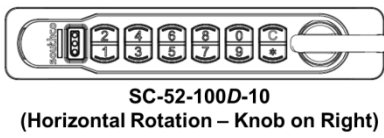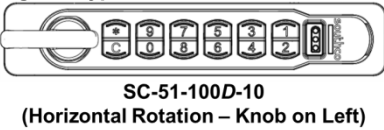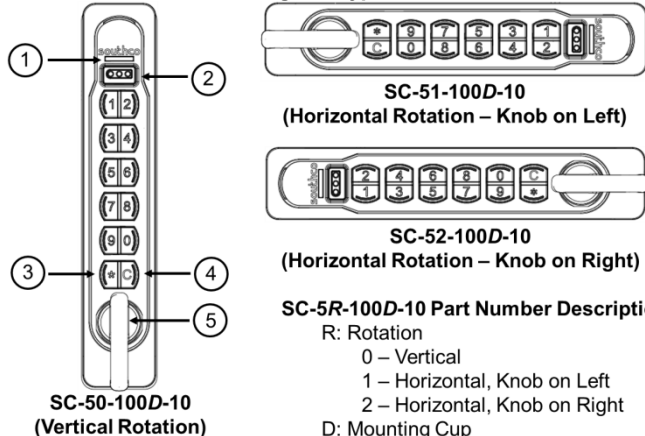
SC-5*R*-100*D*-10 Part Number Description:
R: Rotation
   0 – Vertical
   1 – Horizontal, Knob on Left
   2 – Horizontal, Knob on Right
D: Mounting Cup
   0 – Tall
   1 - Short

1. Status Indicator
2. Electronic Key Port
3. Unlock ([*]) button
4. Clear ([C]) button
5. Knob

Features

- Blue status indicator
- Six second access time
- Supports 6-digit owner, 5-digit manager, and 4-digit user codes.
- Lockout mode
- Uses 3 AA batteries (not included)
- Battery Back-Up
- Indoor use only

Battery Box

⚠ **WARNING:** Use only the included battery box to provide power to the latch. The use of any other power supply may affect product functionality and will void product warranty.

Contact Southco if a replacement battery box is needed.

Mounting and Installation

Please refer to Southco trade drawing J-SC-50-1000 for mounting and installation details.

⚠ **WARNING:** The latch is shipped with both short and long mounting screws. Be sure to use the appropriate mounting screw for the latch's mounting cup and panel thickness, as shown below. See J-SC-50-1000 for additional details.

panel thickness	mounting cup	mounting screw
1 – 5 mm	tall cup (SC-5*R*-1000-10)	short screw
>5 – 10 mm		
>10 – 15 mm		long screw
>15 – 20 mm	short cup (SC-5*R*-1001-10)	short screw
>20 – 25 mm		long screw

Black Manager Key Battery Back-Up

In the event the battery power supply for the latch runs out, an SC-A20-10 black manager key (**sold separately**) can be used to open the latch by contacting it to the electronic key port while entering the owner, manager, or user code for access.

⚠ **NOTE:** The manager key must be held to the electronic key port while entering the code and for the full duration of the unlock/lock cycle for the latch to re-lock.

Low Battery Indicator

If the battery power supply is low, the latch will emit a pair of warning beeps after access is granted. The batteries in the battery box should be replaced.

Programming the Latch

The unit is shipped with the following default codes:

owner code	214365
manager code	21436

Program a New Owner Code

1. Press [C] [*]
2. Enter the current 6-digit owner code
3. Press [*] The unit will beep twice and the status indicator will turn on.
4. Press [C]
5. Enter the new 6-digit owner code
6. Press [*]. The unit will beep twice.
7. Press [C]
8. Re-enter the new 6-digit owner code
9. Press [*]. The unit will beep twice, and the status indicator will turn off.

Program a New Manager Code

Using the Owner Code:

1. Press [C] [*]
2. Enter the 6-digit owner code
3. Press [*] The unit will beep twice and the status indicator will turn on.
4. Press [C]
5. Enter the new 5-digit manager code
6. Press [*]. The unit will beep twice.
7. Press [C]
8. Re-enter the new 5-digit manager code
9. Press [*]. The unit will beep twice, and the status indicator will turn off.

Using the Current Manager Code:

1. Press [C] [*]
2. Enter the 5-digit manager code.
3. Press [*] The unit will beep twice and the status indicator will turn on.
4. Press [C]
5. Enter the new 5-digit manager code
6. Press [*]. The unit will beep twice.
7. Press [C]
8. Re-enter the new 5-digit manager code
9. Press [*]. The unit will beep twice, and the status indicator will turn off.

Program a New User Code

1. Press [C] [*]
2. Enter the 5-digit manager code
3. Press [*] The unit will beep twice and the status indicator will turn on.
4. Press [C]
5. Enter the new 4-digit user code
6. Press [*]. The unit will beep twice.
7. Press [C]
8. Re-enter the new 4-digit user code
9. Press [*]. The unit will beep twice, and the status indicator will turn off.

⚠ **NOTE:** Once a new user code is programmed, the previously programmed user code will be erased.

Normal Use

Using the Owner Code

1. Press [C] [6-digit owner code] [*]. The latch will unlock and the status indicator will flash for six seconds.
2. While the status indicator is flashing, turn the knob to open the latch.
3. The latch will re-lock after six seconds. Turn the knob to its original position to secure the latch.

Using the Manager Code

1. Press [C] [5-digit manager code] [*]. The latch will unlock and the status indicator will flash for six seconds.
2. While the status indicator is flashing, turn the knob to open the latch.
3. The latch will re-lock after six seconds. Turn the knob to its original position to secure the latch.

Using a User Code

1. Press [C] [4-digit user code] [*]. The latch will unlock and the status indicator will flash for six seconds.
2. While the status indicator is flashing, turn the knob to open the latch.
3. The latch will re-lock after six seconds. Turn the knob to its original position to secure the latch.

Lockout Mode

Entry of three consecutive incorrect user, manager, or owner codes will put the latch into lockout mode for one minute. While in lockout mode, keys on the keypad will not respond, and the status indicator will blink.

The latch will return to normal mode after one minute. If an incorrect code is entered during lockout mode or after the latch returns to normal mode, then the latch will be put back into lockout mode for an additional minute.