

REVISION HISTORY			
REV	DATE	BY	DESCRIPTION
0	04JUN2026	SAK/CRM	PRN: P2026-0955

LATCH ASSEMBLY WITH MICRO-SWITCH PART NUMBER:
R4-25-2I0-510B-MM

- I

MOUNTING STYLE

0 SIDE MOUNT Ø6.7 (.263) THRU HOLE

1 SIDE MOUNT 1/4-20 THREAD

2 SIDE MOUNT M6X1 THREAD

3 FRONT MOUNT (M6X1) WITH Ø6.7 (.263) SIDE MOUNT
- B

BASE STYLE

2 MOUNT FOR CABLE WITH RETURN SPRING ASSIST, NO BUMPER

3 MOUNT FOR CABLE WITHOUT RETURN SPRING ASSIST, NO BUMPER

6 MOUNT FOR CABLE WITH RETURN SPRING ASSIST, WITH BUMPER

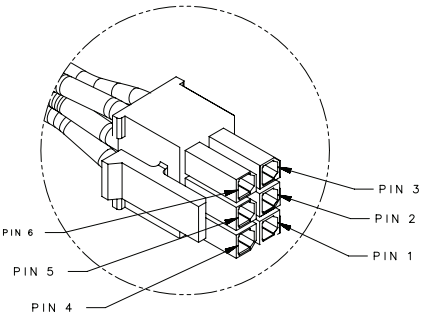
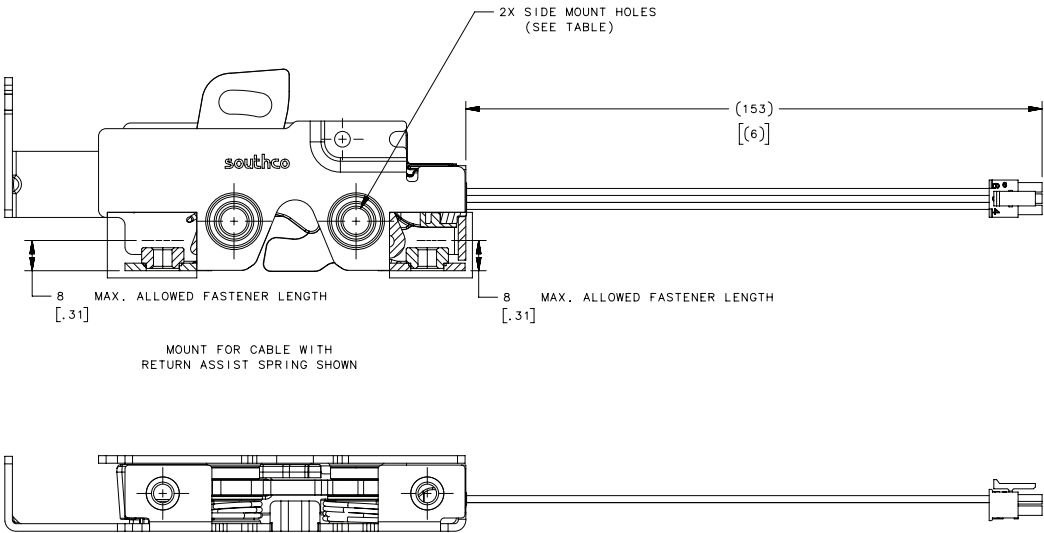
7 MOUNT FOR CABLE WITHOUT RETURN SPRING ASSIST, WITH BUMPER
- MM

MATERIAL

10 STEEL, ZINC PLATE

15 STEEL, BLACK ZINC NICKEL

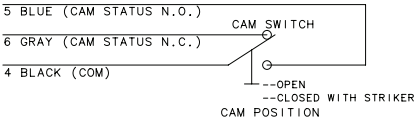
77 STEEL, ZINC NICKEL



MOLEX MICRO-FIT 3.0 CONNECTOR

DETAIL C
SCALE 3:1

CAM STATUS INDICATOR CIRCUIT		
CAM POSITION		
	CAM OPEN	CAM CLOSED WITH STRIKER
BLACK/GREY WIRES	CLOSED CIRCUIT	OPEN CIRCUIT
BLACK/BLUE WIRES	OPEN CIRCUIT	CLOSED CIRCUIT



CONNECTOR PINOUT	
PIN	FUNCTION
1	NOT CONNECTED
2	NOT CONNECTED
3	NOT CONNECTED
4	SWITCH COMMON (BLACK)
5	DOOR SECURE (BLUE)
6	DOOR UNSECURED (GRAY)

NOTES:
SEE SHEET 4 FOR MATERIAL, STRIKER ALIGNMENT, MOUNTING AND SWITCH SPECIFICATIONS.

CPB NUMBER 2023-0911		THIRD ANGLE PROJECTION		 CONNECT • CREATE • INNOVATE	
		MILLIMETERS [IN]			
SURFACE AREA		TOLERANCES UNLESS OTHERWISE NOTED		DESCRIPTION R4-25 ROTARY LATCH	
VOLUME		ALL DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.		SIZE SYSTEM DRG NO. A2 NX J-R4-25-5	
PROPRIETARY ITEM EXCEPT FOR USER EXPRESSLY GRANTED IN WRITING, NO OTHER RIGHTS OR INTELLECTUAL PROPERTY ARE RESERVED BY SOUTHCO, INC.		PER ASME Y14.5M-2009		DRAWN BY CAD DATE 18MAY2021 SCALE 1:1 SHEET 2 OF 4	

REVISION HISTORY			
REV	DATE	BY	DESCRIPTION
O	04JUN2026	SAK/CRM	PRN: P2026-0955

LATCH ASSEMBLY WITH MICRO-SWITCH AND ELECTRONIC ACTUATOR

PART NUMBER:

R4-25-2 I S -51 E B -M M

I MOUNTING STYLE

- 0 SIDE MOUNT Ø6.7 (.263) THRU HOLE
- 1 SIDE MOUNT 1/4-20 THREAD
- 2 SIDE MOUNT M6X1 THREAD
- 3 FRONT MOUNT (M6X1) WITH Ø6.7 (.263) SIDE MOUNT

E ELECTRIC ACTUATION OPTIONS

- B SEALED (IP67) 12VDC EXTEND & HOLD MOLEX 2X3 CONNECTOR

MM MATERIAL

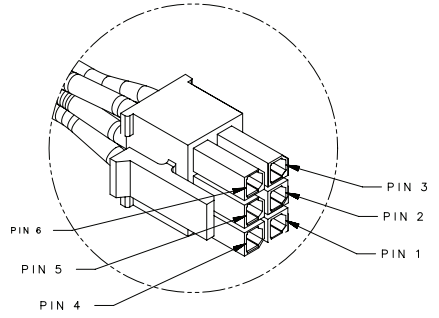
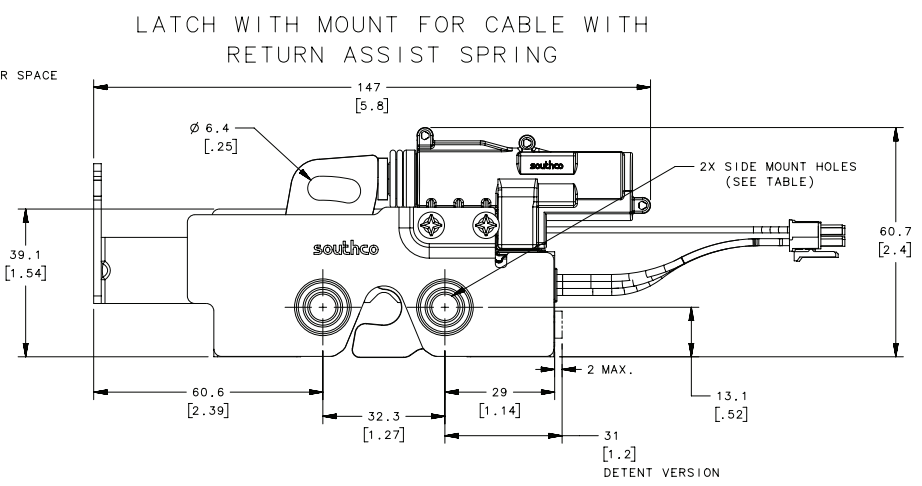
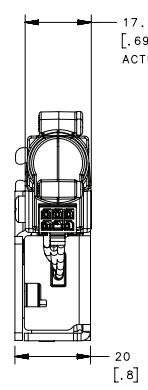
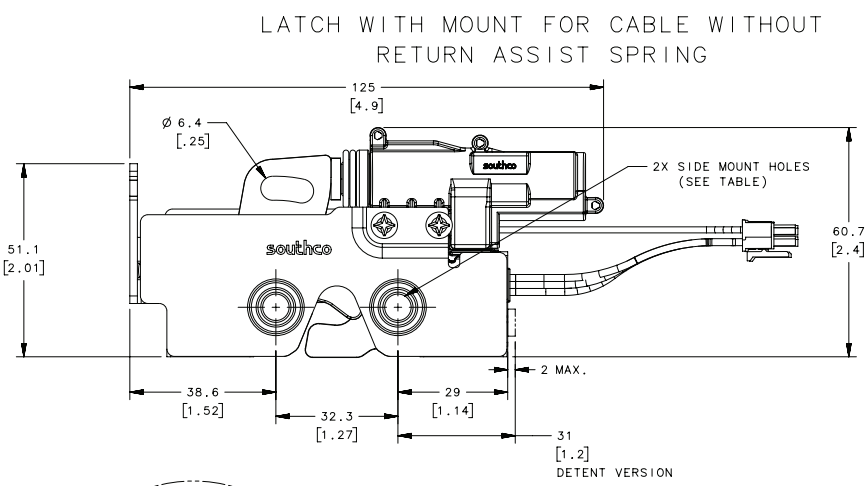
- 10 STEEL, ZINC PLATE
- 15 STEEL, BLACK ZINC NICKEL
- 77 STEEL, ZINC NICKEL

S LATCH RELEASE OPTIONS

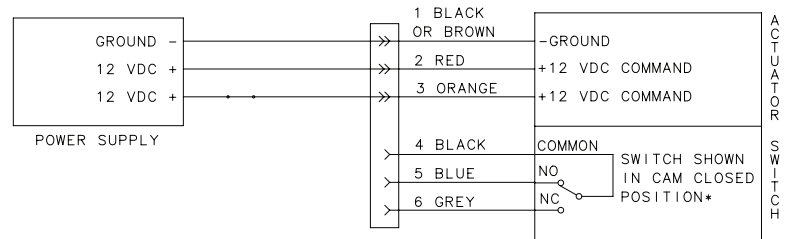
- 0 KICK-OUT SPRING
- 1 PULL TO OPEN

B BASE STYLE

- 2 MOUNT FOR CABLE WITH RETURN SPRING ASSIST, NO BUMPER
- 3 MOUNT FOR CABLE WITHOUT RETURN SPRING ASSIST, NO BUMPER
- 6 MOUNT FOR CABLE WITH RETURN SPRING ASSIST, WITH BUMPER
- 7 MOUNT FOR CABLE WITHOUT RETURN SPRING ASSIST, WITH BUMPER



CONNECTOR PINOUT	
PIN	FUNCTION
1	GROUND (BLACK OR BROWN)
2	POWER RELEASE (RED)
3	POWER RELOCK (ORANGE)
4	SWITCH COMMON (BLACK)
5	DOOR SECURE (BLUE)
6	DOOR UNSECURED (GRAY)



ELECTRICAL HOOKUP (EXTEND AND HOLD)

CPB NUMBER 2023-0911	THIRD ANGLE PROJECTION	southco® CONNECT • CREATE • INNOVATE	
SURFACE AREA	MILLIMETERS [IN]	DESCRIPTION R4-25 ROTARY LATCH	
VOLUME	TOLERANCES UNLESS OTHERWISE NOTED	SIZE A2	SYSTEM NX
PROPRIETARY ITEM	ALL DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.	DOO NO. J-R4-25-5	SCALE 1:1
PER ASME Y14.5M-2009	DRAWN BY CAD	DATE 18MAY2021	SHEET 3 OF 4

NOTES:
SEE SHEET 4 FOR MATERIAL, STRIKER ALIGNMENT, MOUNTING, SWITCH AND ELECTRONIC ACTUATOR SPECIFICATIONS.

NOTES:

A. MATERIAL AND FINISH:

- HOUSINGS, RIVETS AND INTERNAL COMPONENTS:
MATERIAL - STEEL
-10 ZINC PLATED, BRIGHT CHROMATE
-15 ZINC NICKEL, BLACK
-77 ZINC NICKEL, BRIGHT CHROMATE

- PAWL AND TRIGGER:

- MATERIAL - HARDENED STEEL
-10 ZINC PLATED, BRIGHT CHROMATE
-15 ZINC NICKEL, BLACK
-77 ZINC NICKEL, BRIGHT CHROMATE

- SPRINGS: 304 STAINLESS STEEL, PASSIVATED

B. CONNECTOR: MANUFACTURER MOLEX, SERIES MICROFIT 3.0

C. SWITCH SEALED TO IP67; RATING 3A AT 125 VAC; OPERATING TEMPERATURE -40 to 85°C.

D. SEE J-AC-EM-10-2 DRAWING FOR ELECTRIC ACTUATOR SPECIFICATIONS.

E. MOUNTING

- MOUNT THE LATCH SECURELY USING TWO (2) SCREWS IN MOUNTING HOLES PROVIDED (SCREWS NOT PROVIDED)
- MOUNTING HOLES ARE AVAILABLE WITH 1/4 - 20 UNC THREAD, M6 X 1 THREAD (SIDE AND FRONT MOUNT) OR THRU HOLE
- MAXIMUM ALLOWABLE TORQUE ON THREADED MOUNTING SCREWS IS 650 N.cm (57.5 in.lb)

F. THIS VIEW SHOWS THE MAXIMUM STRIKER MISALIGNMENT ACCEPTED BY THE LATCH FROM NOMINAL STRIKER POSITION. IT ASSUMES THE STRIKER CENTERLINE IS PERFECTLY PERPENDICULAR TO THE LATCH MOUNTING SURFACE. STRIKER MISALIGNMENT COULD BE FROM MANUFACTURING TOLERANCES OR FROM NON RIGID DOOR SYSTEMS AND THIS REPRESENTS THE MAXIMUM OF BOTH COMBINED.

G. FOR CABLE OR ROD MOUNTING USE ROTARY CLIP R4-0-72894-4.

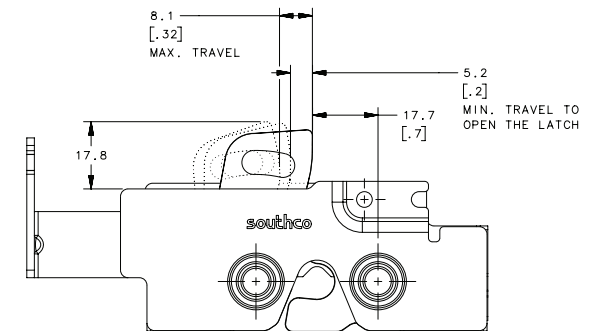
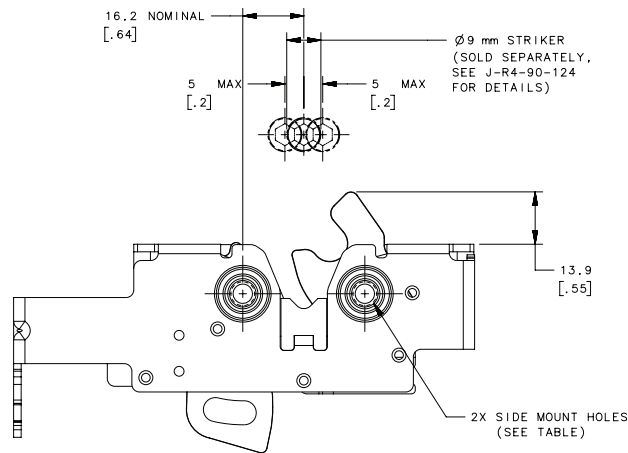
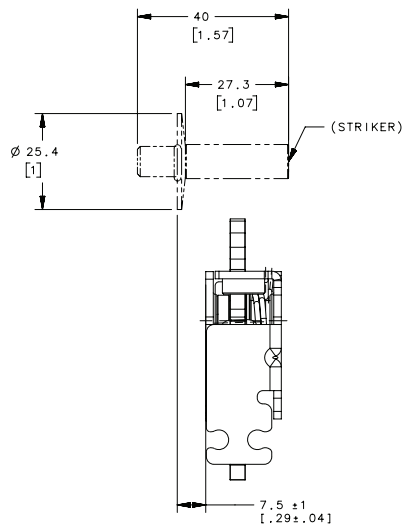
TLC = 7 FOR CABLE TYPE 7 (SOLD SEPARATELY)
SEE CABLE SELECTION TOOL ON SOUTHCO.COM

AMOUNT OF
TRIGGER TRAVEL
5.2 MIN
[.20]
8.1 MAX
[3.2]

TLC = 29 FOR CABLE TYPE 7 (SOLD SEPARATELY)
SEE CABLE SELECTION TOOL ON SOUTHCO.COM

AMOUNT OF
TRIGGER TRAVEL
5.2 MIN
[.20]
8.1 MAX
[3.2]

STRIKER POSITION
TOLERANCE VIEW
(SEE NOTE F)



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	MILLIMETERS [IN]	DESCRIPTION R4-25 ROTARY LATCH	
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VOLUME	ALL DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.		
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	PER ASME Y14.5M-2009	DRAWN BY CAD	DATE 18MAY2021
		SCALE 1:1	SHEET 4 OF 4