

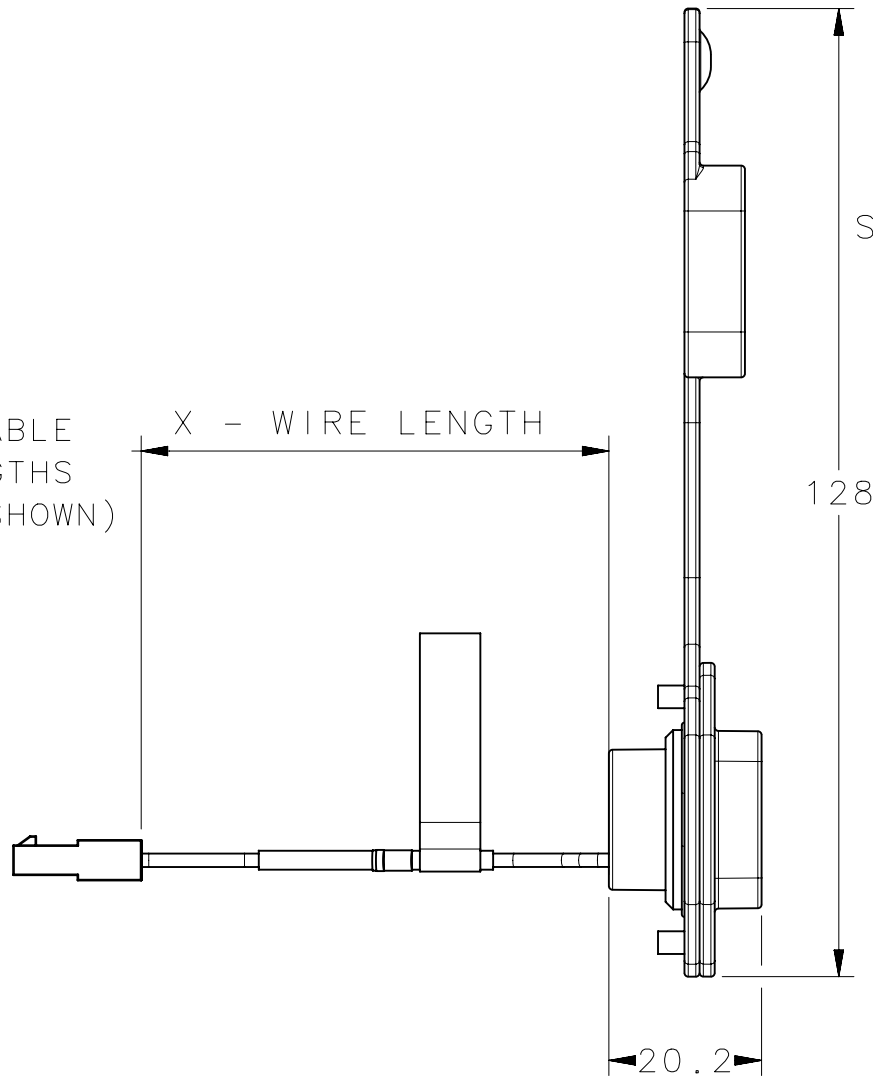
NOTES:

1. PRODUCT DESCRIPTION: A POWER INJECTION PORT TO BE INSTALLED IN THE OUTER SURFACE OF AN ENCLOSURE. ALLOWS FOR A 9V BATTERY TO BE USED TO DELIVER POWER TO ONE OF THE FOLLOWING SOUTHCO BLUETOOTH® CONTROLLERS:
- EA-BT-4043-10-XX
 - EA-BT-5074-10-XX
2. MATERIAL:
- HOUSING: NYLON
 - COVER: TPV
 - WIRE: 24AWG, STRANDED COPPER
 - POTTING MATERIAL: EPOXY BASED
3. CONNECTOR TYPE:
- SEE PART CONFIGURATION TABLE
4. TEMPERATURE:
- OPERATING RANGE OF -40C - 80C
5. ENVIRONMENTAL:
- ALL ITEMS COMPLY WITH RoHS DIRECTIVE AND REACH REGULATION

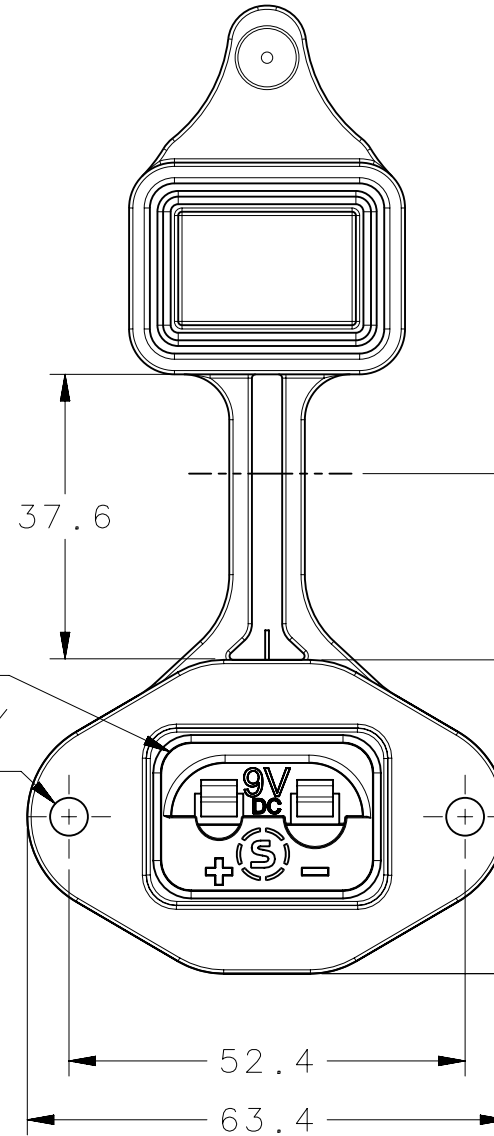
NOTE: SOUTHCO RECOMMENDS TESTING THE PRODUCT TO DETERMINE SUITABILITY IN YOUR APPLICATION. ADDITIONAL SEALING OF MOUNTING HARDWARE MAY BE REQUIRED FOR EXTREME ENVIRONMENTS

REVISION HISTORY			
REV	DATE	BY	DESCRIPTION
A	11JUN2026	ZAM	PRN: P2026-1023

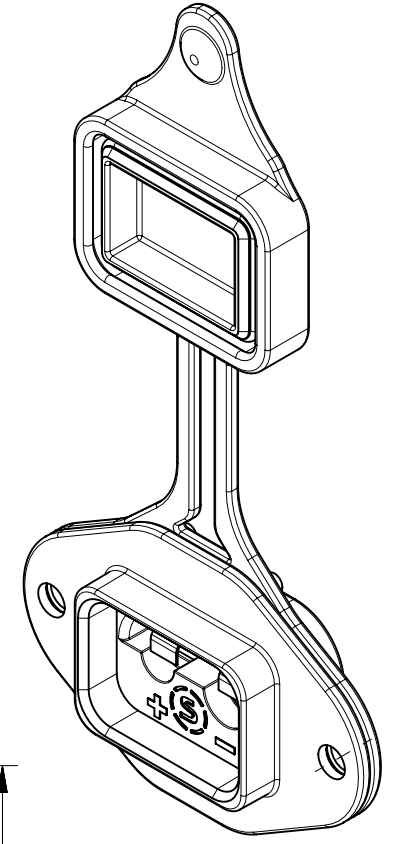
SEE PART
CONFIGURATION TABLE
FOR HARNESS LENGTHS
(EA-BT-5 VERSION SHOWN)



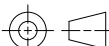
SIZED TO ACCEPT
STANDARD 9V BATTERY
2x Ø5



54.5
(CLOSED HEIGHT)



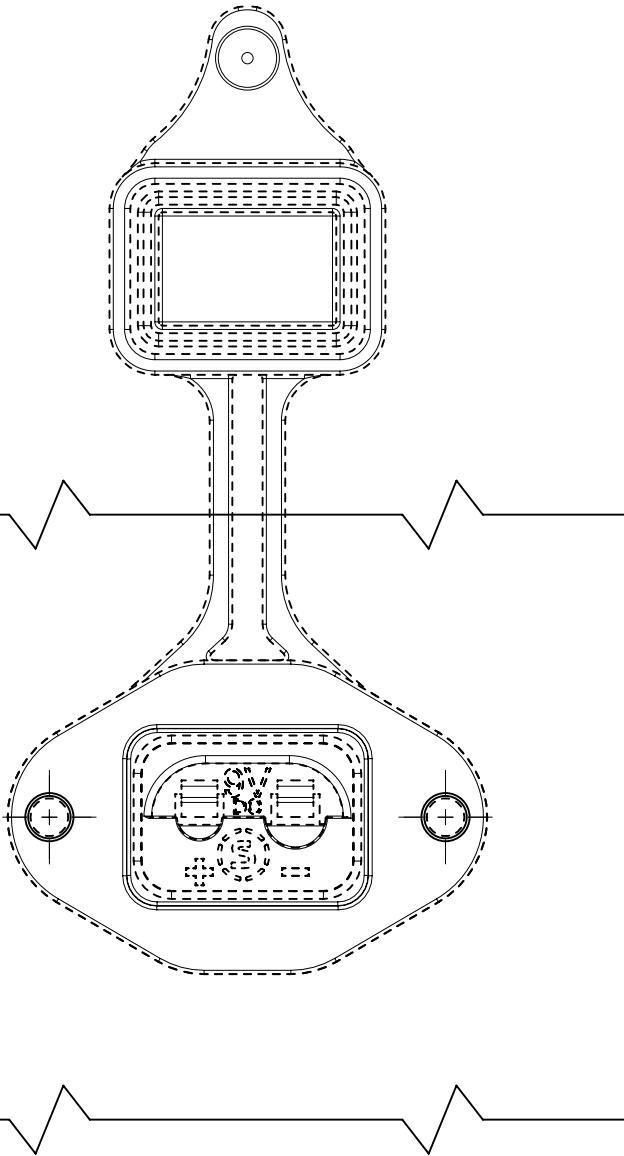
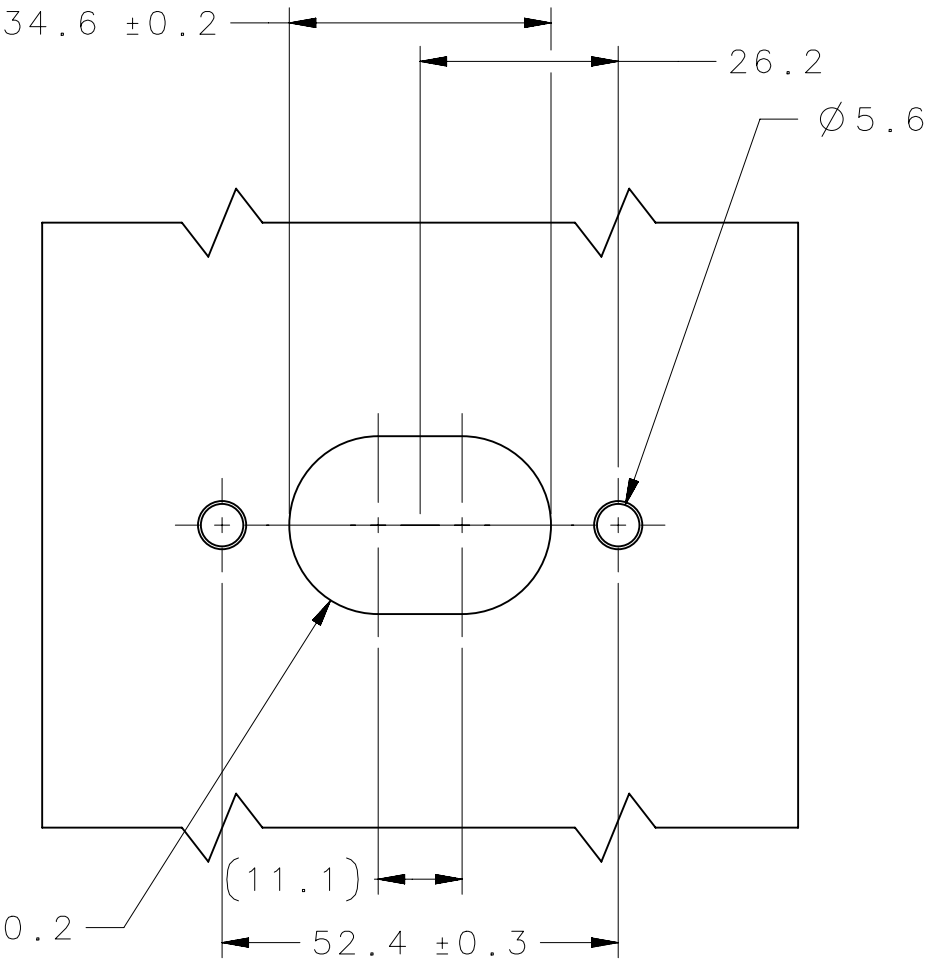
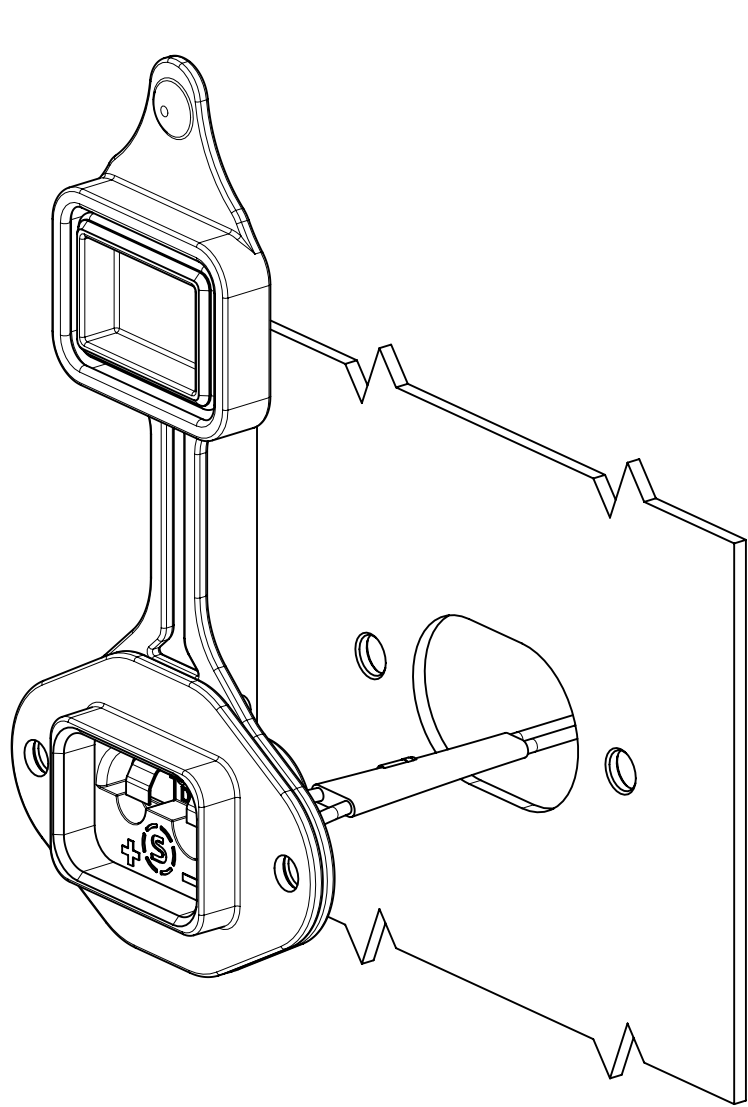
THE BLUETOOTH® WORD MARK AND LOGOS ARE REGISTERED TRADEMARKS OWNED BY BLUETOOTH SIG, INC. AND USE IS UNDER LICENSE

CPB NUMBER 2024-0614	THIRD ANGLE PROJECTION					southco® CONNECT • CREATE • INNOVATE			
SOURCE TCID EA-A40-U90X									
CUSTOMER PART NUMBER	MILLIMETERS [IN]		DESCRIPTION ELECTRONIC ACCESS SOLUTION 9V POWER OVERRIDE PORT						
SURFACE AREA	TOLERANCES UNLESS OTHERWISE NOTED								
VOLUME	ALL DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.		SIZE A3	SYSTEM NX	DWG NO. J-EA-A40-U90X				
PROPRIETARY ITEM EXCEPT FOR USES EXPRESSLY GRANTED IN WRITING, INFORMATION DISCLOSED HEREON IS CONFIDENTIAL AND ALL RIGHTS, PATENT AND OTHERWISE, ARE RESERVED BY SOUTHCO, INC.	PER ASME Y14.5M-2009		DRAWN BY ZAM	DATE 17JAN2025	SCALE 1:1	SHEET 1 OF 4			

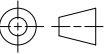
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INSTALLATION NOTES AND INSTRUCTIONS:

6. PRESS REAR OF PORT INTO OPENING UNTIL FULLY SEATED. ENSURE BOLT HOLES ARE ALIGNED, AS SHOWN.
7. SECURE PORT WITH 2x #8 BOLTS OR M4 BOLTS AND CORRESPONDING NUTS OR THREADED STUDS.
8. TIGHTEN BOLTS TO 1.5 IN-LBS.



PANEL PREP

CPB NUMBER 2024-0614	THIRD ANGLE PROJECTION 	southco® CONNECT • CREATE • INNOVATE				
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SURFACE AREA	TOLERANCES UNLESS OTHERWISE NOTED					
VOLUME	ALL DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.	SIZE A3	SYSTEM NX	DWG NO. J-EA-A40-U90X		
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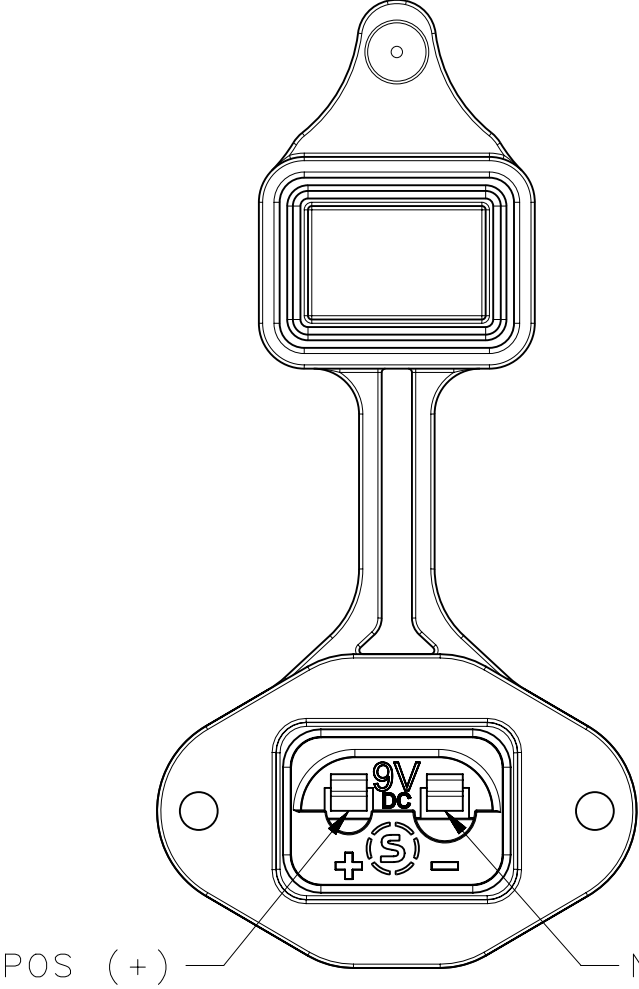
- NOTES:
- 9. DEVICE CONTAINS CROSS-CONTACT SURGE PROTECTION.
 - 10. ACCEPTS STANDARD 9V BATTERY
 - 11. PORT WILL NOT RETAIN BATTERY, CONSTANT PRESSURE MUST BE APPLIED DURING USE.
 - 12. PORT IS KEYED SUCH THAT BATTERY WILL ONLY BE ACCEPTED IN CORRECT ORIENTATION, AS SHOWN.
DO NOT FORCE BATTERY AS THIS RISKS DAMAGING THE PORT AND ANY UNIT DOWNSTREAM.

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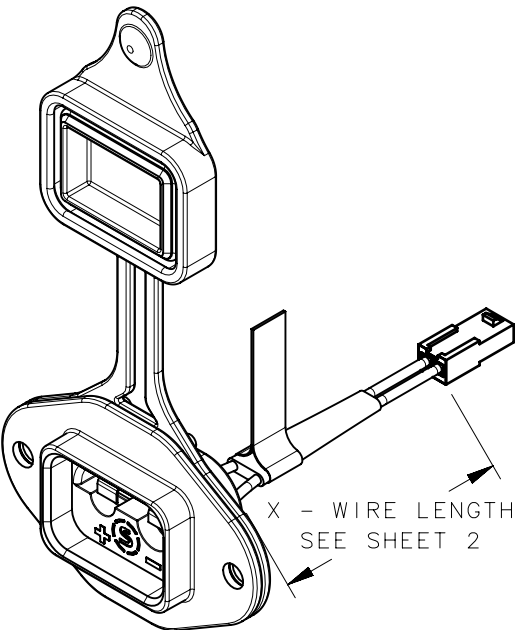
TABLE 1: ELECTRICAL AND PERFORMANCE CHARACTERISTICS				
PARAMETER	UNITS	MIN	NOM	MAX
SUPPLY VOLTAGE	VDC		9	
OPERATING TEMPERATURE	°C	TBD		TBD

EA-A40-U90X

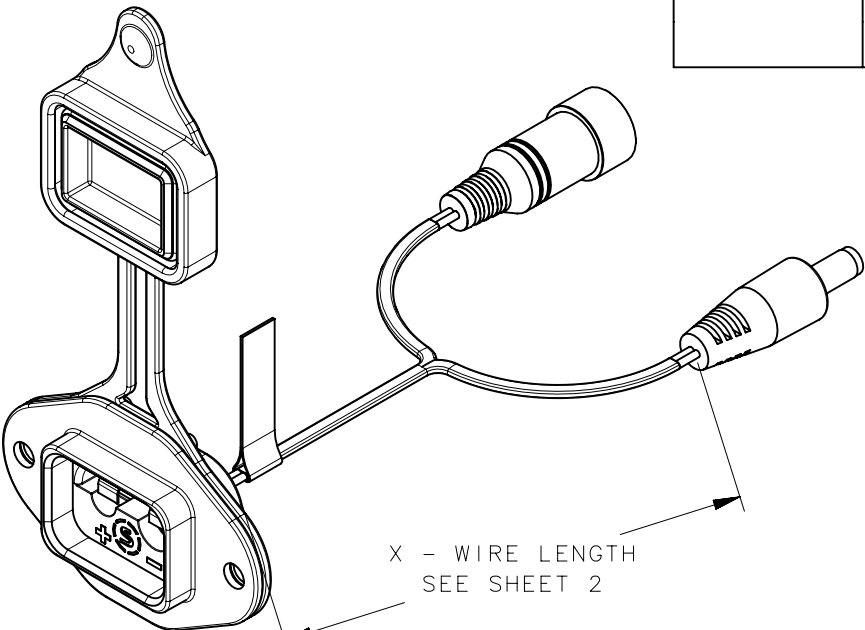
PART CONFIGURATION TABLE				
U	COMPATIBLE BLUETOOTH CONTROLLER	X	WIRE LENGTH (mm)	CONNECTOR TYPE
4	EA-BT-4 - EXTERNALLY POWERED	A	150	5521 JACK AND 5521 PLUG
		1	1000	
		2	2000	
		3	3000	
5	EA-BT-5 - BATTERY POWERED	4	4000	2 PIN MOLEX MICROFIT 3.0
		A	150	
		1	1000	
		2	2000	
		3	3000	
		4	4000	



EA-A40-590X



EA-A40-490X



CPB NUMBER 2024-0614	THIRD ANGLE PROJECTION			
SOURCE TCID EA-A40-U90X	MILLIMETERS [IN]			
CUSTOMER PART NUMBER	TOLERANCES UNLESS OTHERWISE NOTED	DESCRIPTION ELECTRONIC ACCESS SOLUTION 9V POWER OVERRIDE PORT		
SURFACE AREA	ALL DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.	SIZE A3	SYSTEM NX	DWG NO. J-EA-A40-U90X
VOLUME	PER ASME Y14.5M-2009	DRAWN BY ZAM	DATE 17JAN2025	SCALE 1:1
PROPRIETARY ITEM EXCEPT FOR USES EXPRESSLY GRANTED IN WRITING, INFORMATION DISCLOSED HEREON IS CONFIDENTIAL AND ALL RIGHTS, PATENT AND OTHERWISE, ARE RESERVED BY SOUTHCO, INC.			SHEET 3 OF 4	

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NOTES:

13. IT IS NOT RECOMMENDED TO USE 9V POWER OVERRIDE PORT WITH MORE THAN 1 LATCH ATTACHED TO CONTROLLER. VOLTAGE AVAILABLE MAY BE INSUFFICIENT TO DRIVE CONTROLLER AND BOTH LATCHES.

14. RECOMMEND USING HIGH QUALITY 9V BATTERY. TEST SYSTEM BEFORE FULL DEPLOYMENT.

REVISION HISTORY

REV	DATE	BY	DESCRIPTION
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LATCH COMPATIBILITY TABLE – AT A GLANCE

CONTROLLER CONFIGURATION	ASSOCIATED LATCH	WORKS WITH EA-BT-4 SINGLE OUTPUT BLUETOOTH CONTROLLER	WORKS WITH EA-BT-5 BATTERY POWERED BLUETOOTH CONTROLLER
A1	EM-05-11	Y	Y
	EM-05-21	Y	Y
	R4-EM-2	Y	Y
	R4-EM-6	Y	Y
	R4-EM-7	Y	Y
B1	R4-EM-9 (DOOR AND LATCH SENSOR)	Y	N/A
	R4-EM-05 (DOOR AND LATCH SENSOR)	Y	N/A
C1	EM-10-1X-310 AND EM-10-1X-410	Y	N/A
	EM-10-2X-310, EM-10-3X-310, EM-10-2X-410, EM-10-3X-410	Y	N/A
D1	R4-EM-8 (12VDC VERSION WITH LATCH AND DOOR SENSOR ONLY)	Y	Y
F1	R4-25 (12VDC VERSION ONLY)	Y	Y
F2	AC-EM-102-1042	Y	Y

CPB NUMBER

2024-0614

SOURCE TCID

EA-A40-U90X

CUSTOMER PART NUMBER

SURFACE AREA

VOLUME

PROPRIETARY ITEM

EXCEPT FOR USES EXPRESSLY GRANTED IN WRITING, INFORMATION DISCLOSED HEREON IS CONFIDENTIAL AND ALL RIGHTS, PATENT AND OTHERWISE, ARE RESERVED BY SOUTHCO, INC.

THIRD ANGLE PROJECTION

MILLIMETERS [IN]

TOLERANCES UNLESS OTHERWISE NOTED

ALL DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

PER ASME Y14.5M-2009

southco®

CONNECT • CREATE • INNOVATE

DESCRIPTION

ELECTRONIC ACCESS SOLUTION
9V POWER OVERRIDE PORT

SIZE

A3

SYSTEM

NX

DWG NO.

J-EA-A40-U90X

DRAWN BY

ZAM

DATE

08AUG2025

SCALE

1:1

SHEET

4 OF 4

6

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