



apollo APD0826 Soteria UI Switch Monitor Module Installation Guide

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**APD0826 / 2021 / ISSUE 3
INSTALLATION GUIDE
SOTERIA UL
SWITCH MONITOR MODULE**

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GENERAL

The Switch Monitor Module is a loop-powered device that incorporates a separately addressed monitored input

circuit for connection to a remote switch. It has a selectable 'priority interrupt' to give a fast response from devices such as pull stations. It is mounted with a plastic fascia plate for use with a UL listed 4" electrical box or dual gang.

Please Note:

- When the 10th section of the dip switch is changed, the Switch Monitor Module will change the type code it sends to the panel in XP95/Discovery Protocol.
- The Switch Monitor Module is designed for indoor dry use only .
- All circuits are power limited.
- The unit must be installed in a dedicated suitable UL listed enclosure, employing only power limited circuit.

CONTROL PANEL COMPATIBILITY

The Switch Monitor Module has been approved by UL, LLC. For details of compatible panels contact Apollo America Inc.

TECHNICAL INFORMATION

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Part Number	SA4705-700APO
Replacement Part Number	55000-805,55000-806
Type	Switch Monitor Module
Dimensions	4.9" width x 4.9" height x 1.175" depth
Temperature Range	32°F to 120°F (0°C to 49 °C)
Humidity	0 to 95% RH (Non-Condensing)
Signal Line Circuit (SLC)	Supervised
Operating Voltage	17-28V DC
Modulation Voltage	5-9 V (peak to peak)
Supervisory Current	<700 µA
LED Current	1.6mA per LED
Maximum Loop Current	1A
Approvals	UL, ULC, CSFM, FM
Material	UL 94 V-0
Max Standby Current (Pulsing LED)	2.96 mA
Max Surge Alarm Current (LEDs on)	4.8 mA
Wire Range	12-24 AWG

TECHNICAL INFORMATION COUNT.

Initiating Device Circuit (IDC)	
Wiring Styles	Supervised power limited Class A and Class B
Voltage	3.3 V DC (<200 μ A)
Line Impedance	100 Ω max

End-of-Line resistors* 47k Ω

Note: *A UL listed end-of-line resistor is available at Apollo, Part no. 44251-146

Analogue Values		
	Without Ground Fault	With Ground Fault*
Normal	16	19
Alarm	64	64
Trouble	4	4

Note: * Ground fault values need to be enabled by the dip switch (by Default no ground Fault values will show up).

INSTALLATION

This product must be installed in accordance with the applicable NFPA standards, local codes and jurisdictional authorities. Failure to follow these instructions may result in failure of devices to report an alarm condition. Apollo America Inc. is not responsible for devices which are improperly installed, maintained and tested. Before installing this product, check the continuity, polarity and insulation resistance of all wiring. Check that wiring is in accordance with the fire system drawings and conforms to all applicable local codes such as NFPA 72.

1. Mount the electrical box as required and install all cables for termination.
2. Terminate all cables in compliance with local codes and regulation. Ensure that cable shield/ earth continuity is maintained and no short occurs with the back box (see Fig. 3 and 4 for wiring instructions)
3. Set the address on dip switch of the unit as shown on page 5.
4. Gently push the completed assembly towards the mounting box and verify wiring and address. Align the fixing holes.
5. Secure the module to the electrical box with provided screws. Do not over tighten screws.
6. Place the face plate over the module and secure with provided screws.
7. Commission the module.

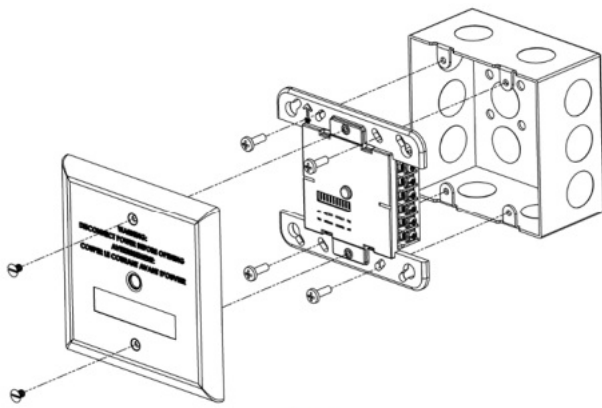


Fig. 1

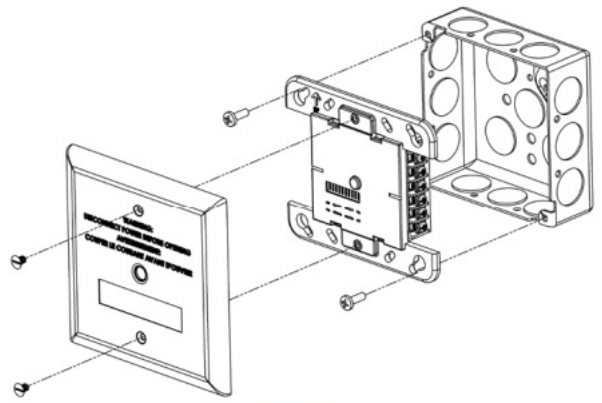
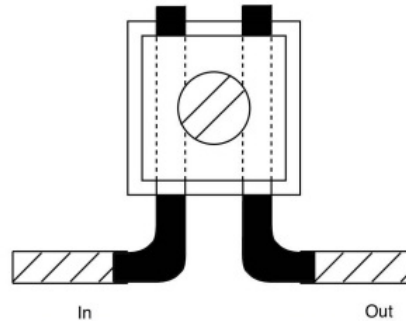
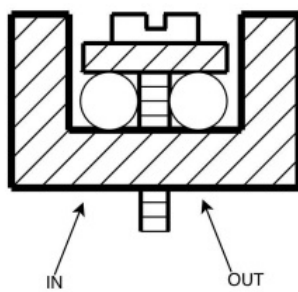


Fig. 2

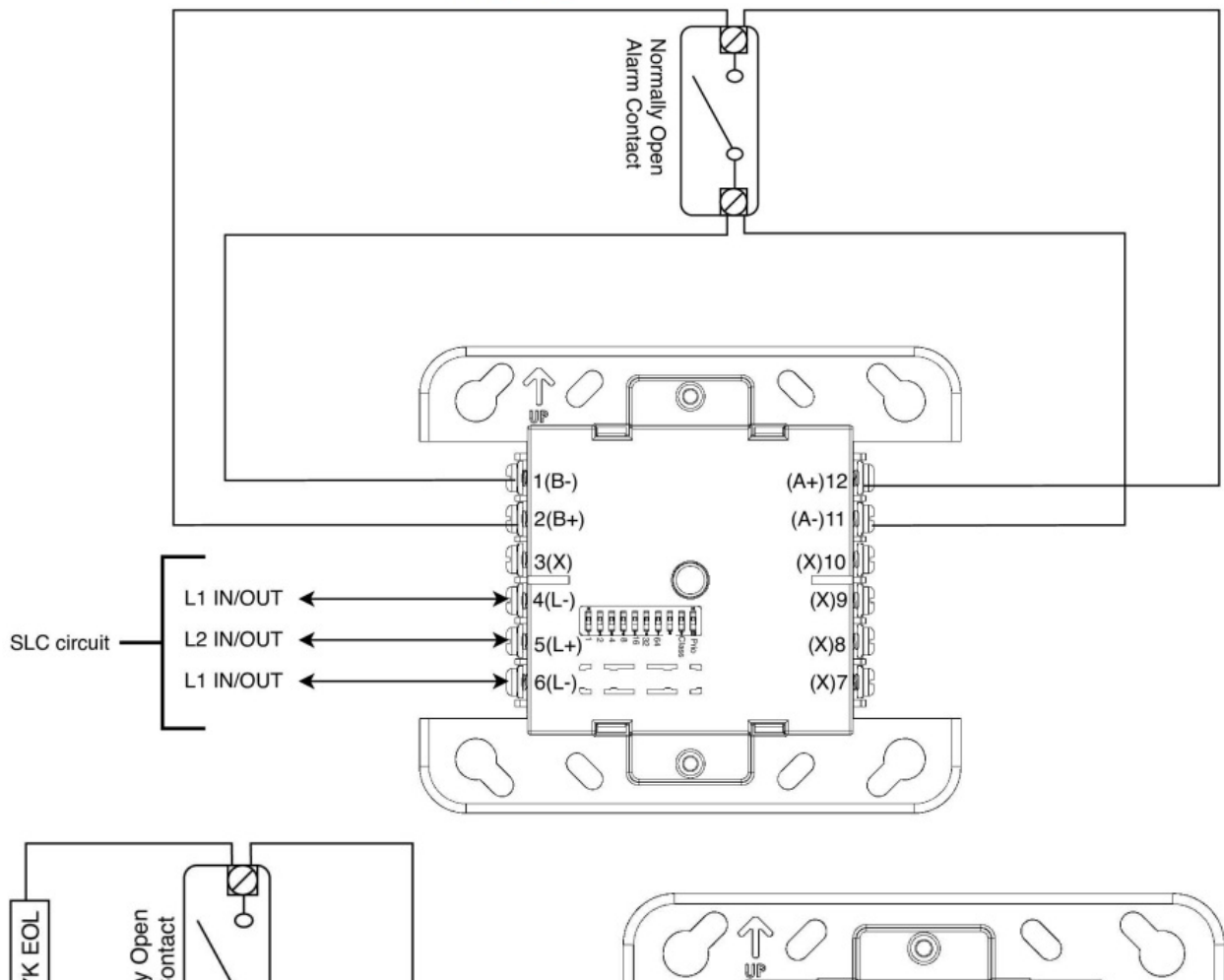
WIRING INSTRUCTION

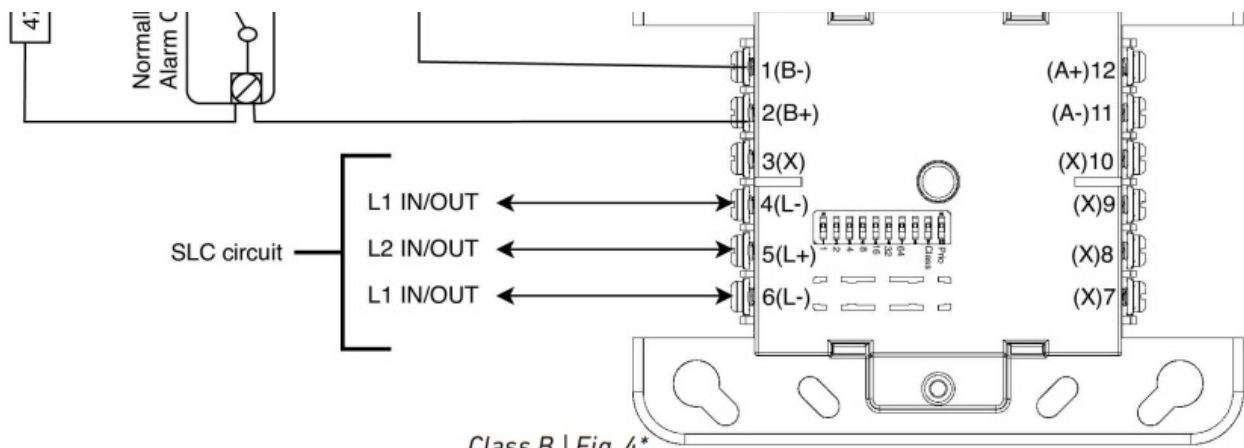
Note: 'X' denotes unused terminals

CAUTION: When Making Installation, Route Field Wiring Away From Sharp Projections, Corners, and Internal Components



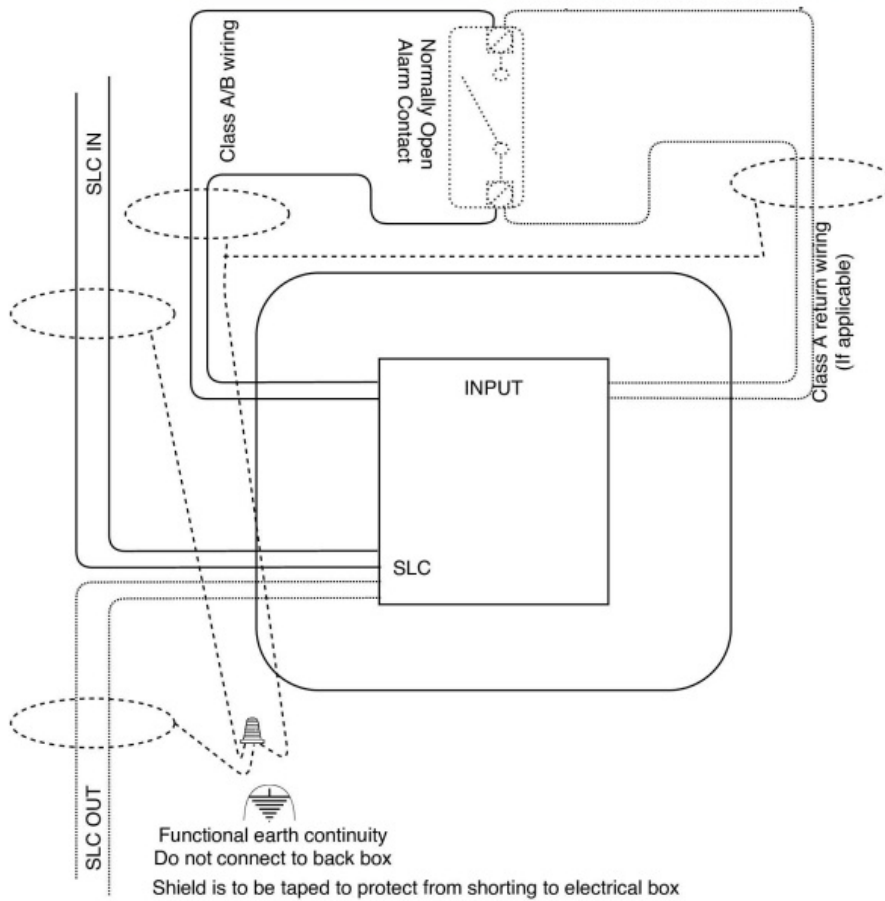
Separate incoming and outgoing wire at every terminal
Do not loop



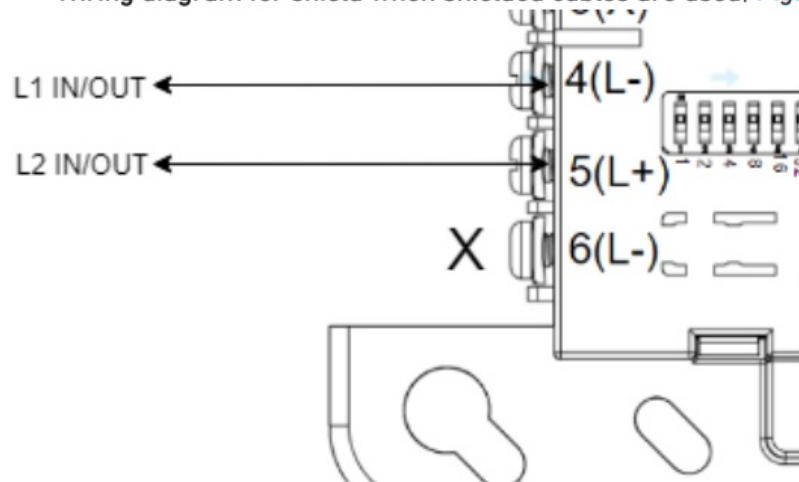


Class B | Fig. 4*

Note: * A UL listed end of Line resistor is required in Class B



Wiring diagram for shield when shielded cables are used | Fig. 5



For non-isolated wiring connection

ADDRESS SETTING

Steps:

1. The dip switch used to address your device has 10 individual switches (Figure 6).
2. Address setting is done by dip switches 1-8 (see page 7 for address matrix).
 - a. In XP/Discovery Protocol, only dip switch 1-7 are used, dip switch 8 is used to enable ground fault analogue value.
 - b. Dip switch down = 1 and up = 0.
3. Dip switch 9 is used to set Wiring Class A/B (Figure 7).
4. Dip switch 10 is used for setting the priority on the modules (Figure 7).
 - a. Priority selection is only available on SA4705-600APO, SA4705-700APO, SA4705-703APO, SA4705-720APO.

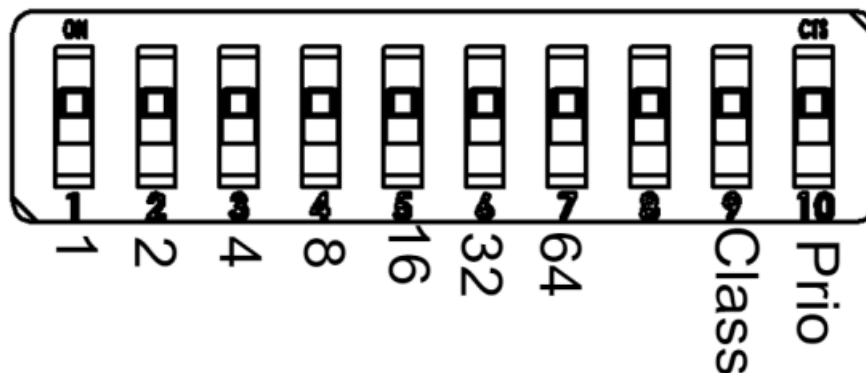


Fig. 6

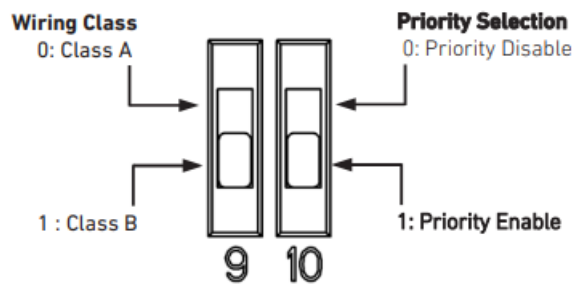
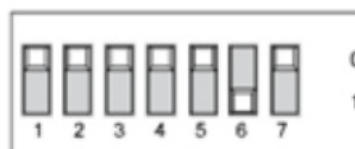
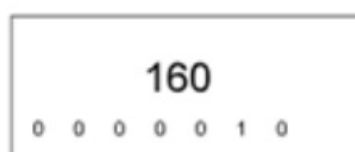
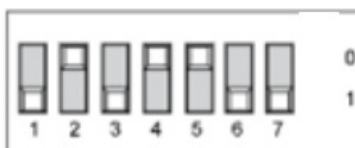
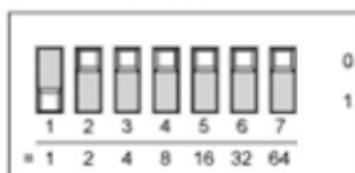


Fig. 7

Address Setting Examples



LED STATUS

LED Color	Description
Green	Polling
Yellow (Solid)	Isolation
Red	Command Bit

A green LED flashes in synchronization with the current pulse reply from the device.

ADDRESS MATRIX

1	1000 0000	43	1101 0100	85	1010 1010
2	0100 0000	44	0011 0100	86	0110 1010
3	1100 0000	45	1011 0100	87	1110 1010
4	0010 0000	46	0111 0100	88	0001 1010
5	1010 0000	47	1111 0100	89	1001 1010
6	0110 0000	48	0000 1100	90	0101 1010
7	1110 0000	49	1000 1100	91	1101 1010

8	0001 0000	50	0100 1100	92	0011 1010
9	1001 0000	51	1100 1100	93	1011 1010
10	0101 0000	52	0010 1100	94	0111 1010
11	1101 0000	53	1010 1100	95	1111 1010
12	0011 0000	54	0110 1100	96	0000 0110
13	1011 0000	55	1110 1100	97	1000 0110
14	0111 0000	56	0001 1100	98	0100 0110
15	1111 0000	57	1001 1100	99	1100 0110
16	0000 1000	58	0101 1100	100	0010 0110
17	1000 1000	59	1101 1100	101	1010 0110
18	0100 1000	60	0011 1100	102	0110 0110
19	1100 1000	61	1011 1100	103	1110 0110
20	0010 1000	62	0111 1100	104	0001 0110
21	1010 1000	63	1111 1100	105	1001 0110
22	0110 1000	64	0000 0010	106	0101 0110
23	1110 1000	65	1000 0010	107	1101 0110
24	0001 1000	66	0100 0010	108	0011 0110
25	1001 1000	67	1100 0010	109	1011 0110
26	0101 1000	68	0010 0010	110	0111 0110
27	1101 1000	69	1010 0010	111	1111 0110
28	0011 1000	70	0110 0010	112	0000 1110
29	1011 1000	71	1110 0010	113	1000 1110
30	0111 1000	72	0001 0010	114	0100 1110
31	1111 1000	73	1001 0010	115	1100 1110
32	0000 0100	74	0101 0010	116	0010 1110
33	1000 0100	75	1101 0010	117	1010 1110
34	0100 0100	76	0011 0010	118	0110 1110
35	1100 0100	77	1011 0010	119	1110 1110
36	0010 0100	78	0111 0010	120	0001 1110
37	1010 0100	79	1111 0010	121	1001 1110
38	0110 0100	80	0000 1010	122	0101 1110
39	1110 0100	81	1000 1010	123	1101 1110
40	0001 0100	82	01001010	124	0011 1110

41	1001 0100	83	1100 1010	125	1011 1110
42	0101 0100	84	0010 1010	126	0111 1110

Notes:

- For XP95/Discovery Protocol only panels address is only limited from 1-126.
- Dip Switch 8 is used to enable the ground fault detection on XP95/Discovery Protocol only.



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Documents / Resources

	apollo APD0826 Soteria UI Switch Monitor Module [pdf] Installation Guide APD0826 Soteria UI Switch Monitor Module, APD0826 Soteria, UI Switch Monitor Module, Monit or Module
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References

- [fire Business Accounts - Dual-currency | Open Banking | APIs](#)
- [Apollo Fire Detectors - Fire Detection Solutions](#)