Installation Guide *for UBio-X Face V1.0*

Walk Through Face Recognition Terminal

Doc Ver1.0

January.,15.2021

R&D Center

Union Community Co., Ltd.

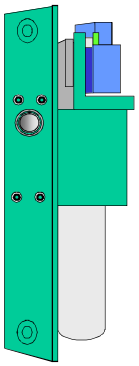
1. The maximum cable length & thickness for installation

1) Using 15V 4A Power Supply & AWG24

15V 4A Adapter

AWG24 10m

AWG24 10m



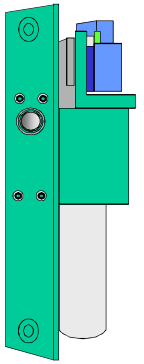
Dead-Bolt
BEHOST BHL-700C
(Standby:0.15A, Start:0.9A)

2) Using 15V 4A Power Supply & AWG22

15V 4A Adapter

AWG22 20m

AWG22 10m



Dead-Bolt
BEHOST BHL-700C
(Standby:0.15A, Start:0.9A)

* Caution: The above data are the measured values when using the adapters and the dead-bolts provided by the Union Community.

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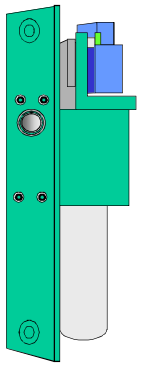
1. The maximum cable length & thickness for installation

1) Using 15V 4A Power Supply & AWG20

15V 4A Adapter

AWG20 40m

AWG20 10m



Dead-Bolt
BEHOST BHL-700C
(Standby:0.15A, Start:0.9A)

* Caution: The above data are the measured values when using the adapters and the dead-bolts provided by the Union Community.

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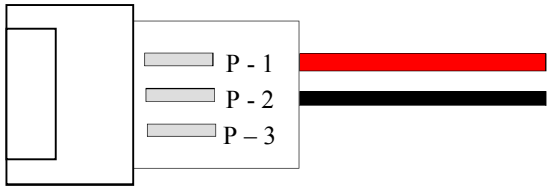
2. Description of External Cables



1- +15V (RE)
2- GND (BK)

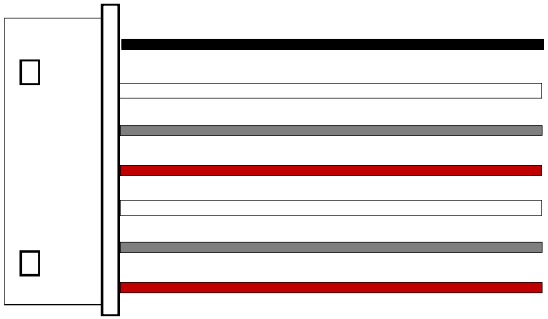
Power Adapter Cable(2P)

5-GND(BK)
4-IN1 (PI)
3-IN0 (BR)
2-OUT1 (YE)
1-OUT0 (OR)

Wiegand Cable (5P)

5-GND(BK)
4-EXITB (OR)
3-DM2 (BL)
2-DM1 (GR)
1-DM0 (YE)

Lock Status Cable (5P)



7-GND (BK)
6-Lock2 NO (WH)
5-Lock2 Com (GY)
4-Lock2 NC (BR)
3-Lock1 NO (WH)
2-Lock1 Com (GY)
1-Lock1 NC (BR)

Lock Cable (7P)

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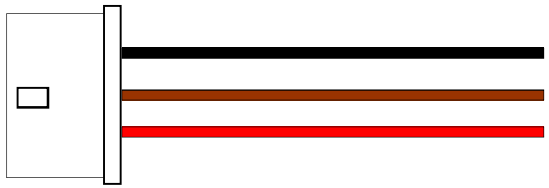
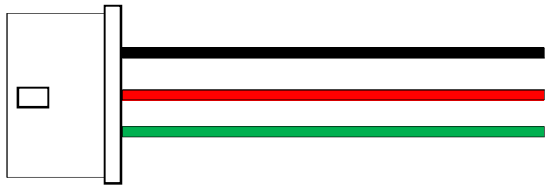
2. Description of External Cables



GND (BK) - 3
RXD (BR) - 2
TXD (RE) - 1

RS232 Cable (3P)



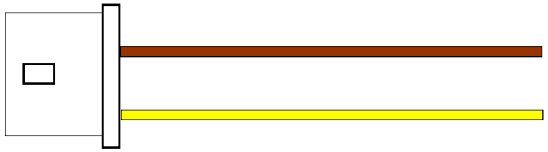
GND (BK) - 3
L_RED (RE) - 2
L_GREEN (GR) - 1

Light Bar Cable (3P)

GND (BK) - 2

5V Out (WH/BK) - 1

5V Out Cable (2P)



Motor- (BR) - 2

Motor+ (YE) - 1

Motor Cable (2P)

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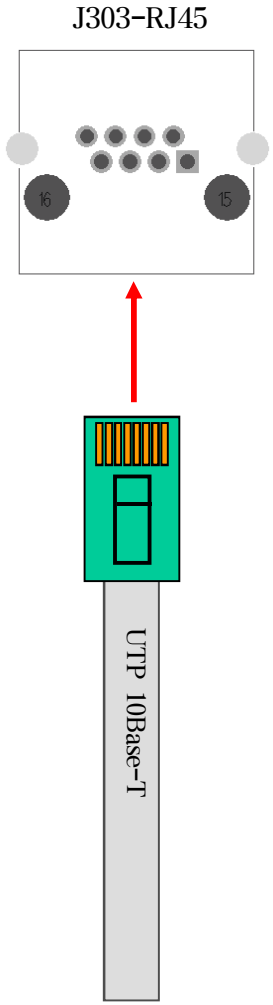
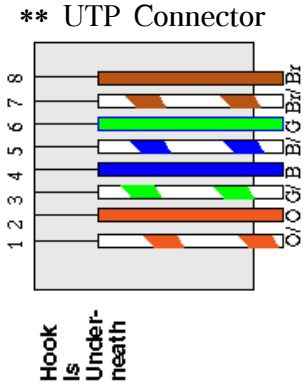
3. Connecting Ethernet (LAN) Cable





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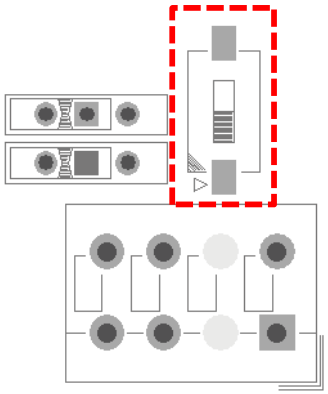
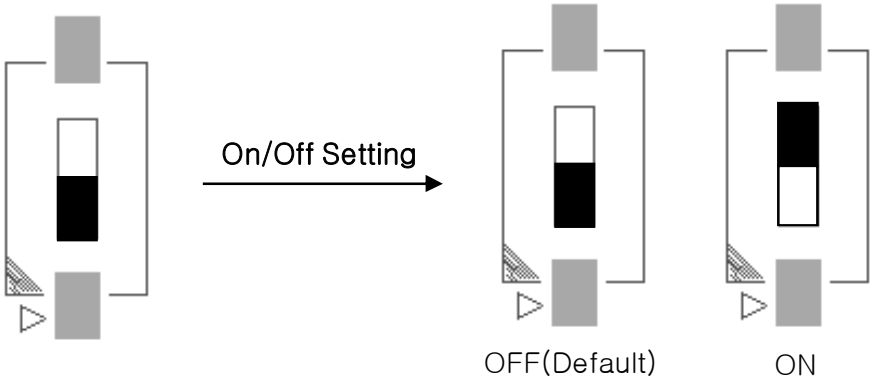
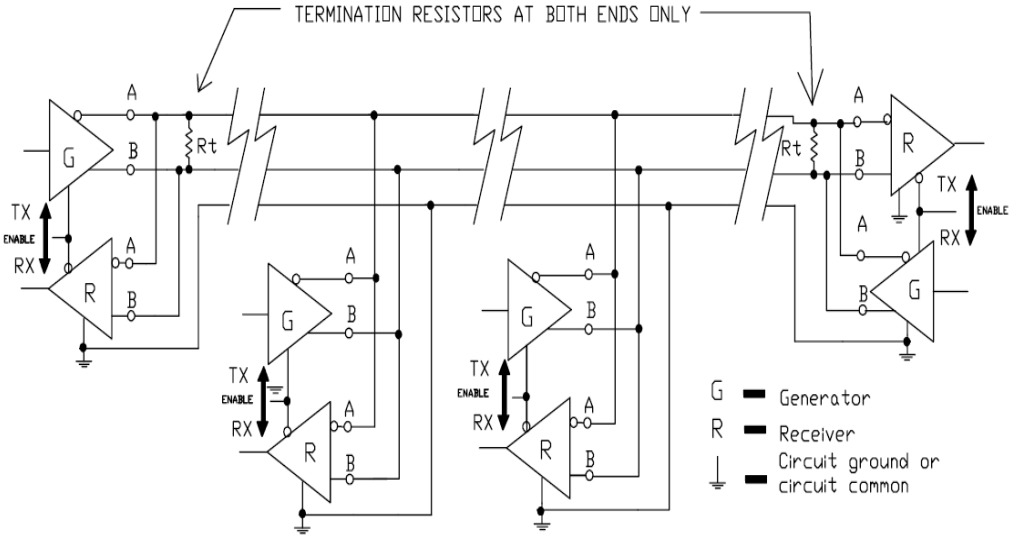
4. Resistor Setting for RS485 End Termination



SW401



* Default Setting is off.
* ON: 120 Ohm Resistor is connected between 485A and 485B



RS-485 TWO WIRE MULTIDROP NETWORK

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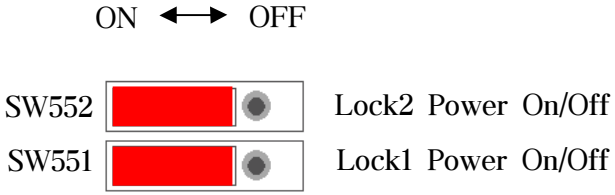
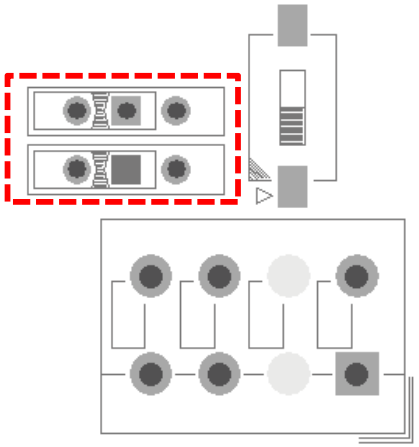
5. Description of the switch for setting lock power





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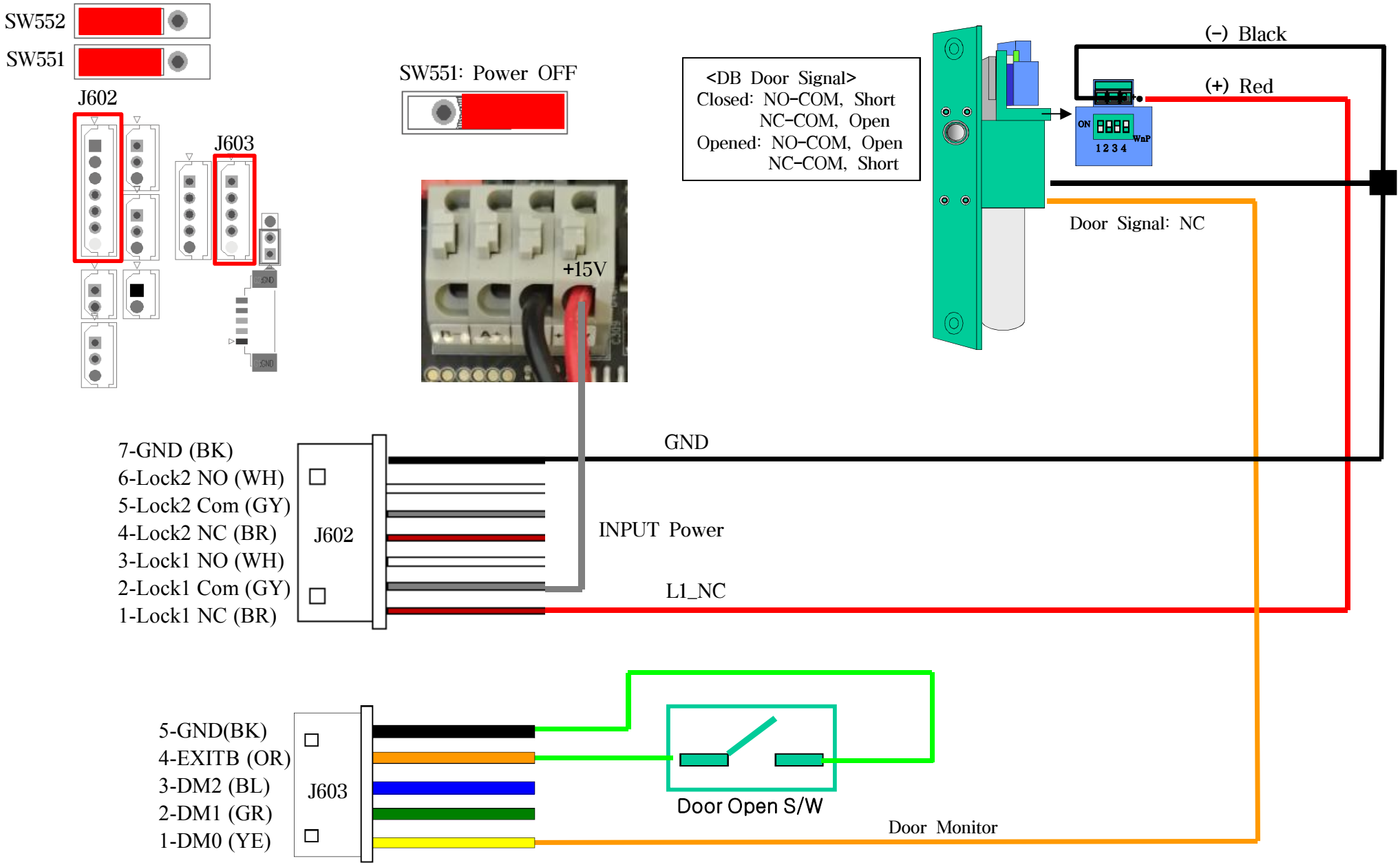
6. Connecting a Dead-Bolt Type Door Lock (Fail Safe)

6.1. Connecting One System/ One Lock



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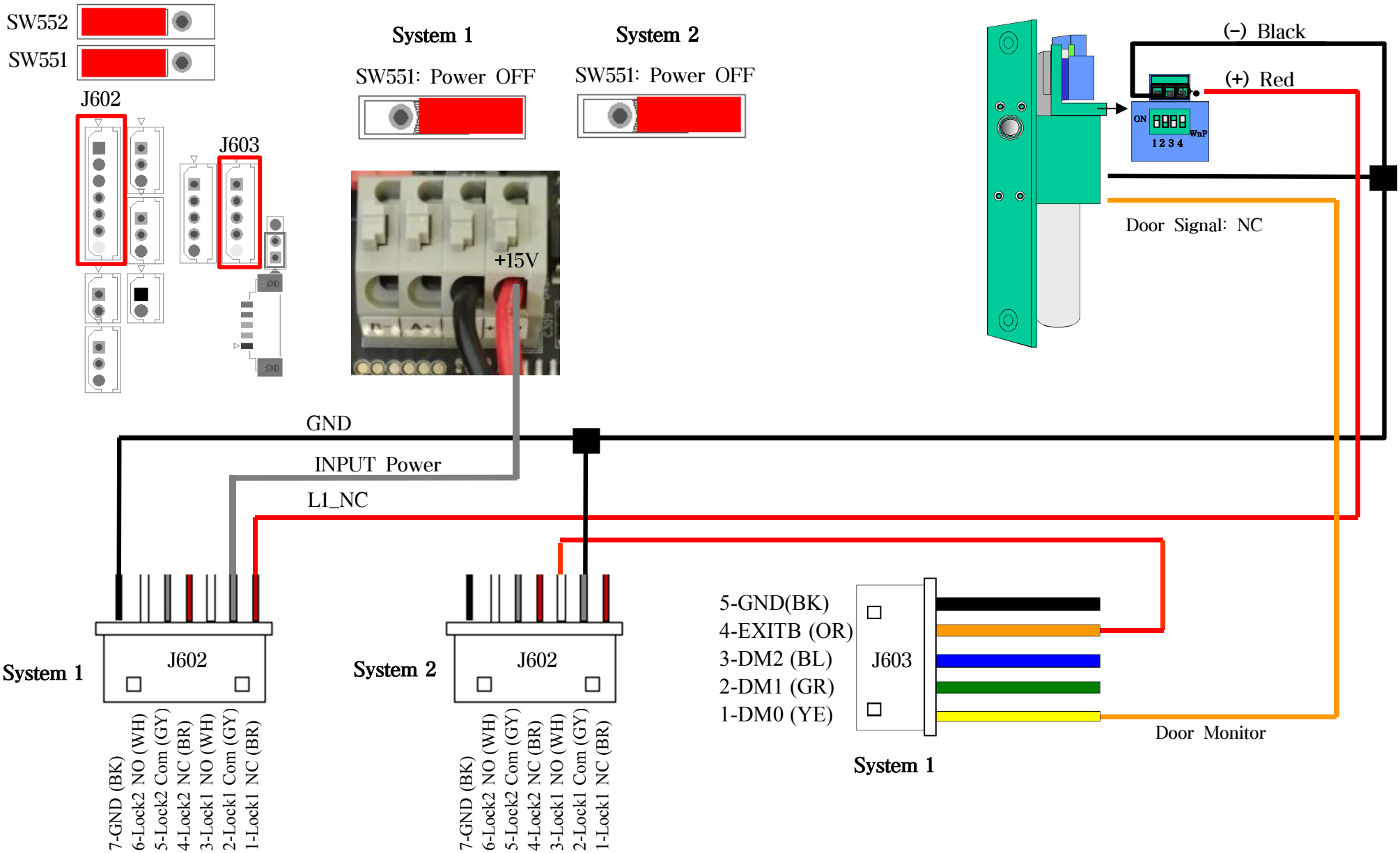
6. Connecting a Dead-Bolt Type Door Lock (Fail Safe)

6.2. Connecting Two Systems/ One Lock



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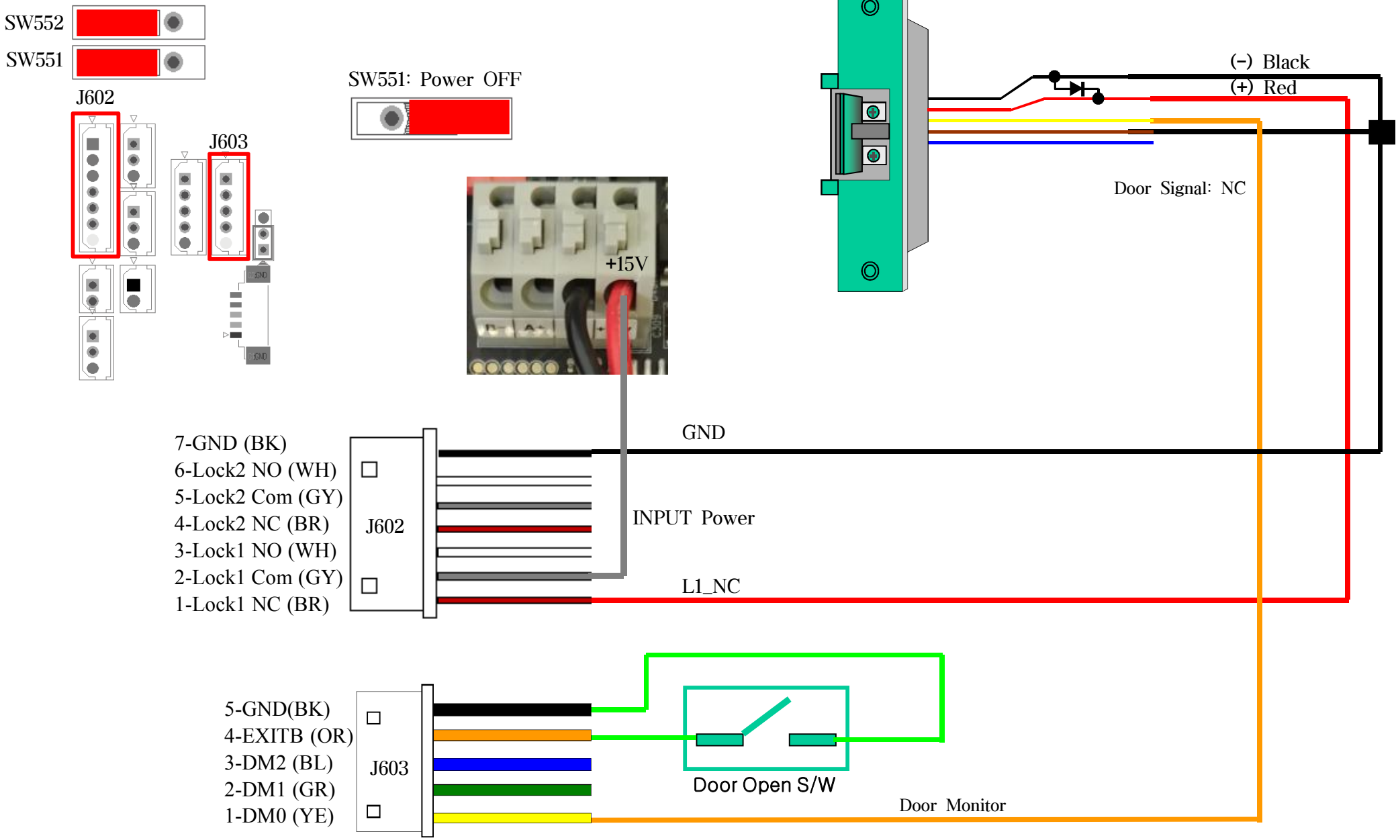
7. Connecting a Strike Type Door Lock (Fail Safe)

7.1. Connecting One System/ One Lock



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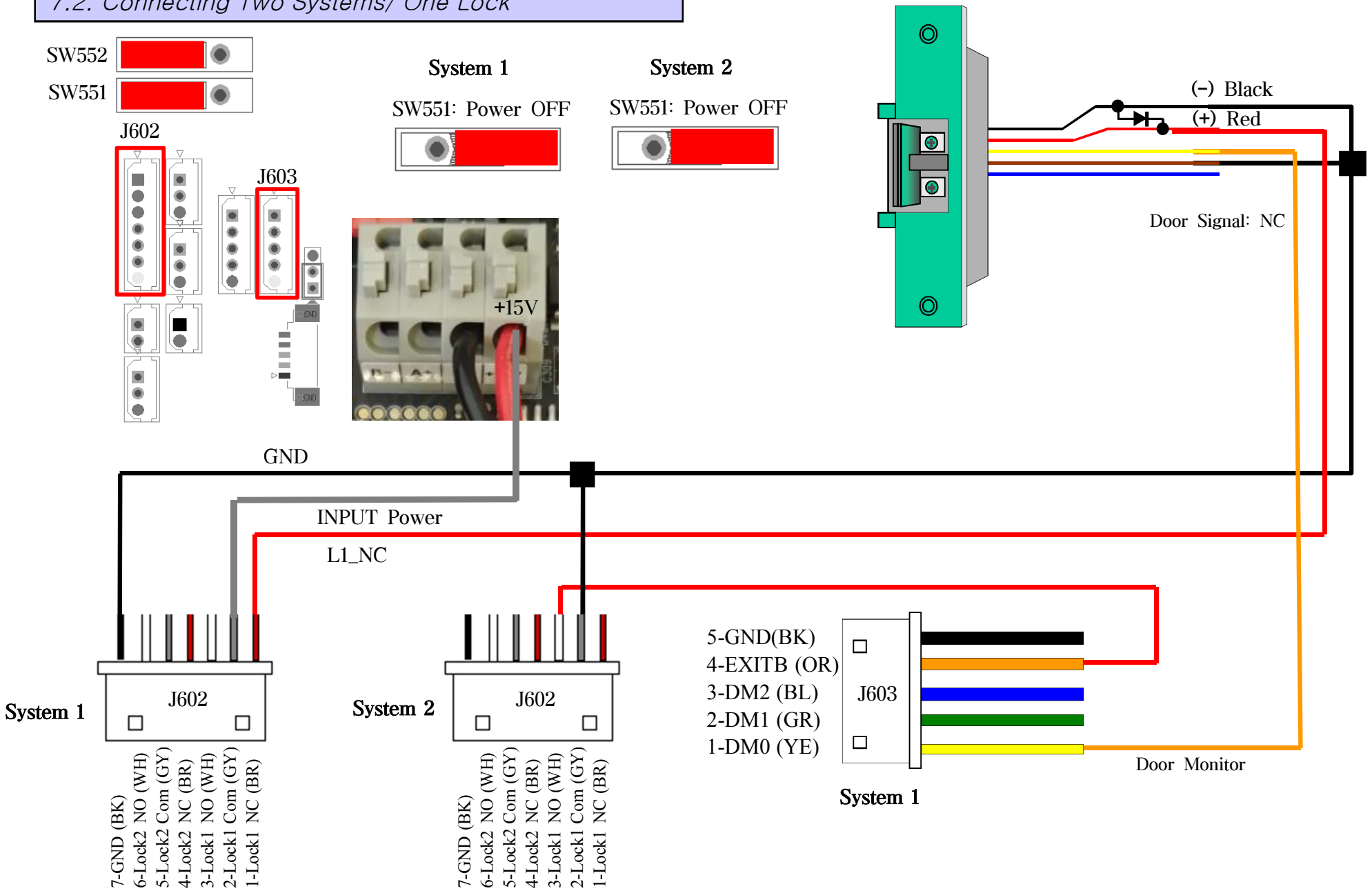
7. Connecting a Strike Type Door Lock (Fail Safe)

7.2. Connecting Two Systems/ One Lock



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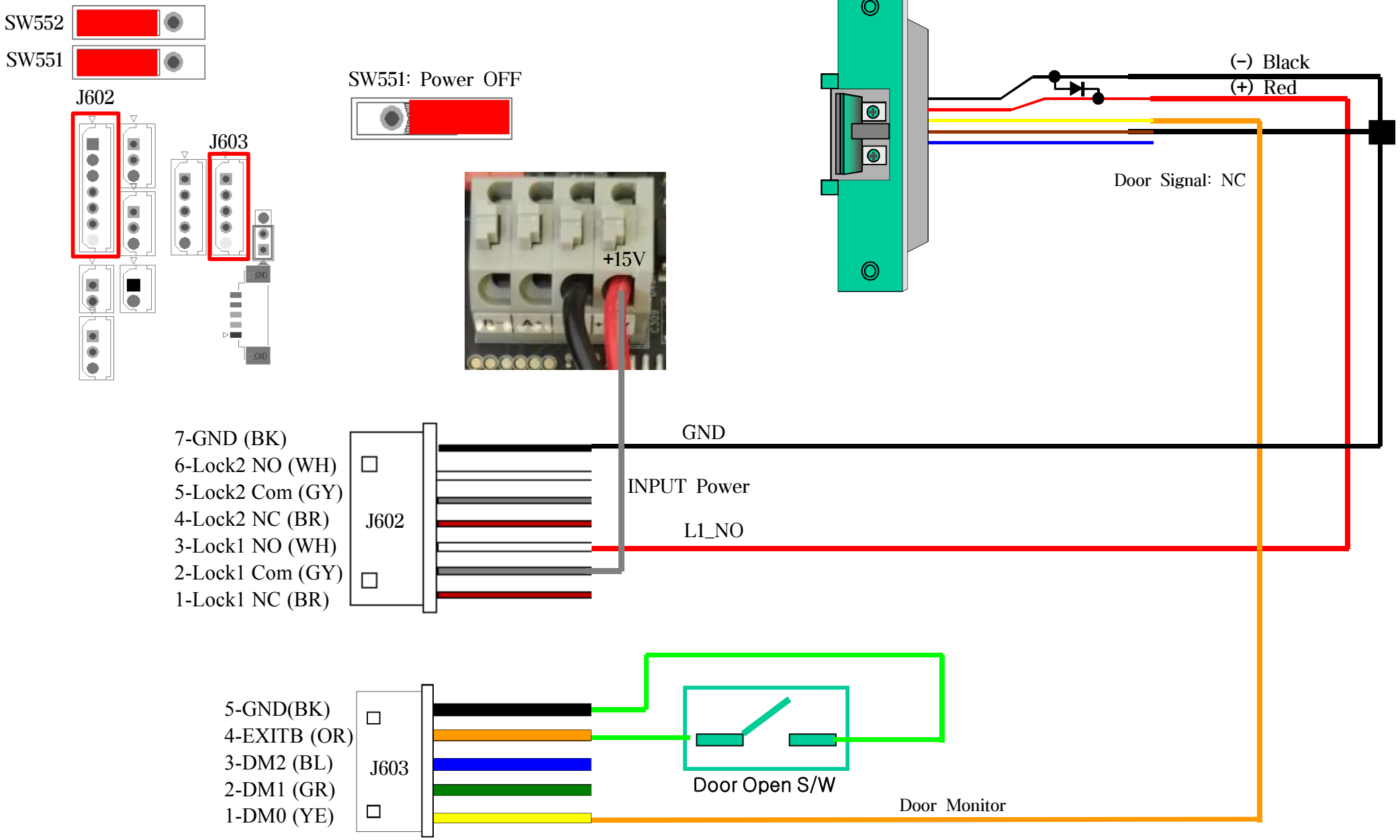
8. Connecting a Strike Type Door Lock (Fail Secure)

8.1. Connecting One System/ One Lock



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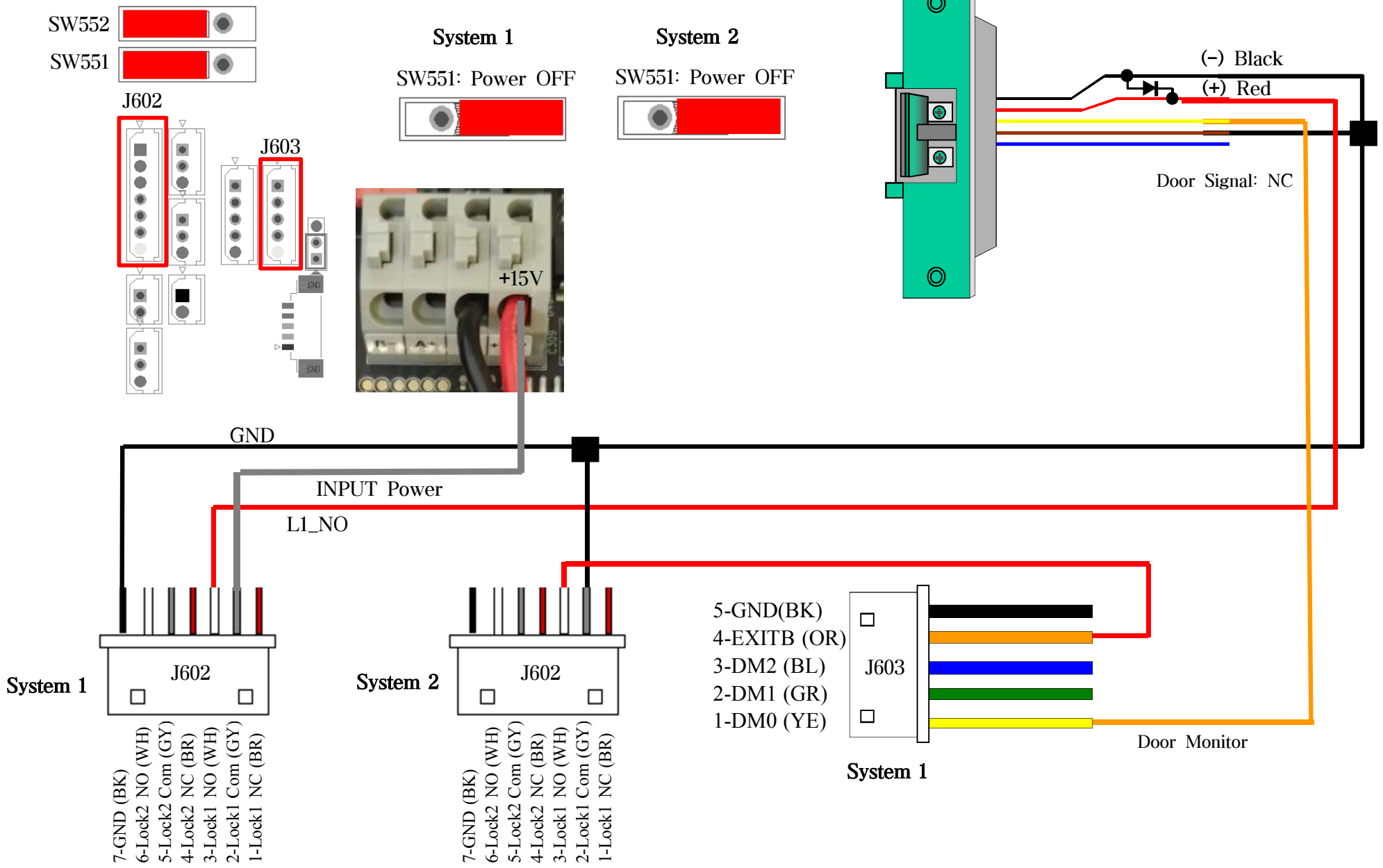
8. Connecting a Strike Type Door Lock (Fail Secure)

8.2. Connecting Two Systems/ One Lock



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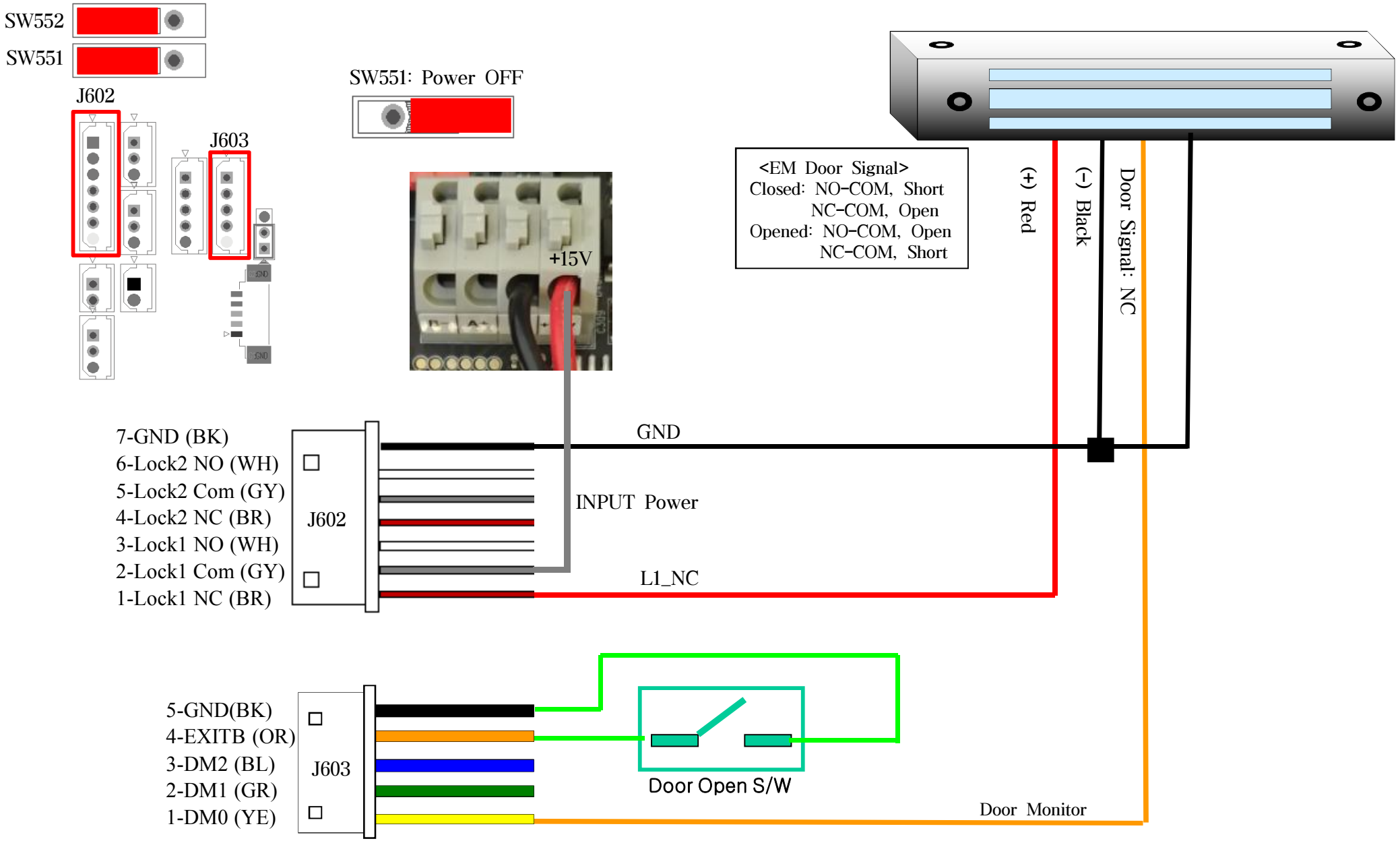
9. Connecting an EM Type Door Lock (Fail Safe)

9.1. Connecting One System/ One Lock



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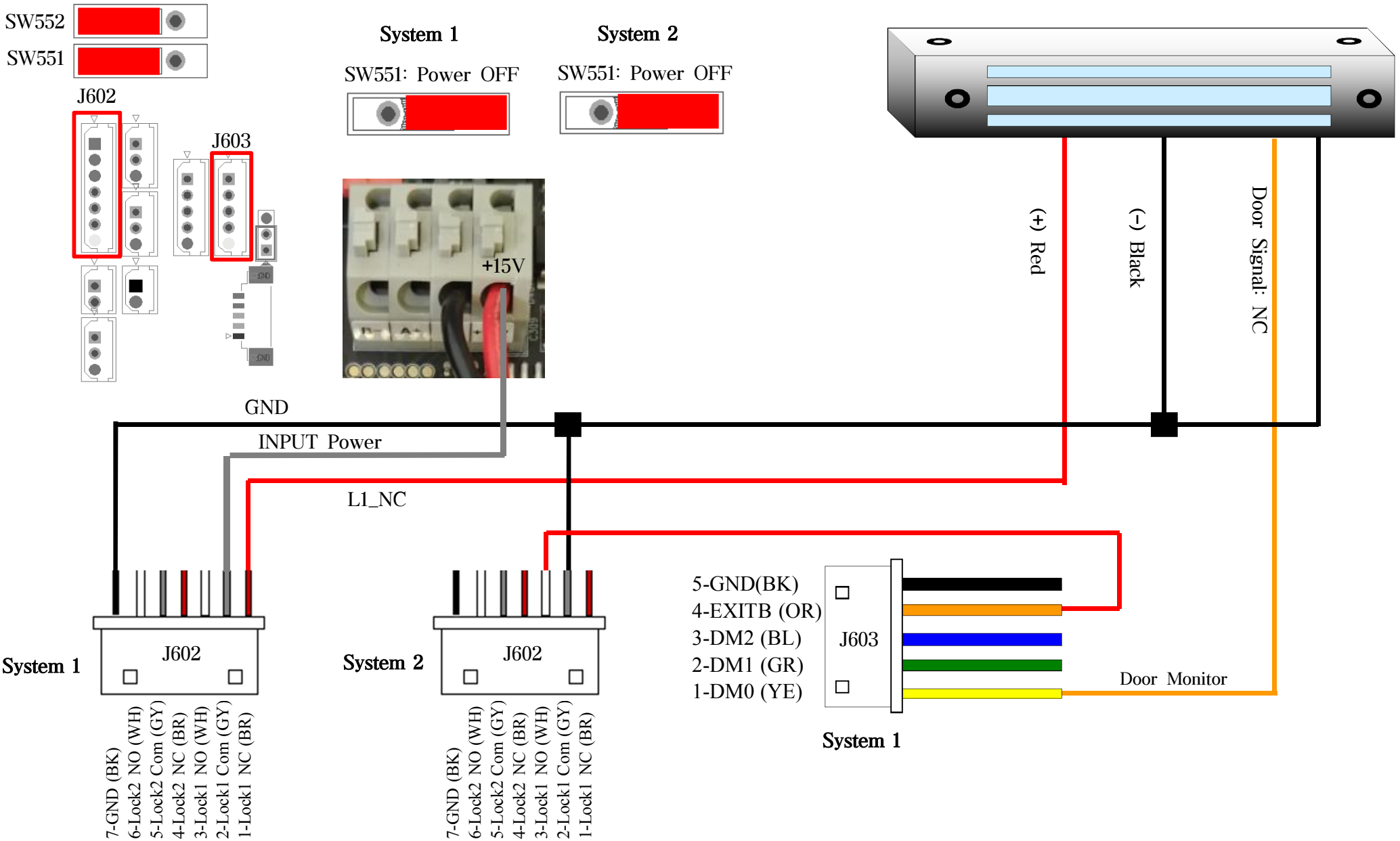
9. Connecting an EM Type Door Lock (Fail Safe)

9.2. Connecting Two Systems/ One Lock



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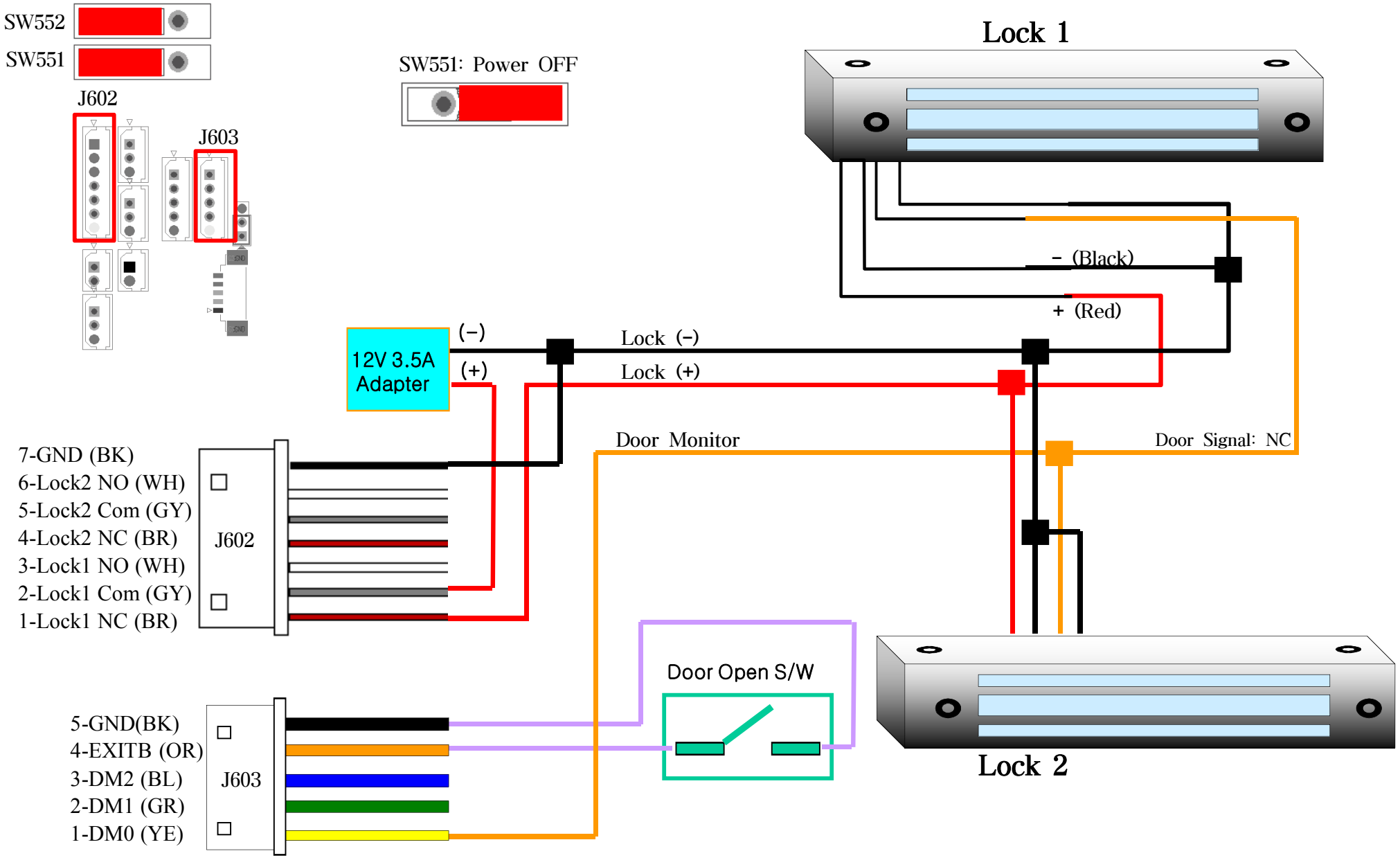
9. Connecting an EM Type Door Lock (Fail Safe)

9.3. Connecting One System/ Two Locks " Use external DC Power adapter"



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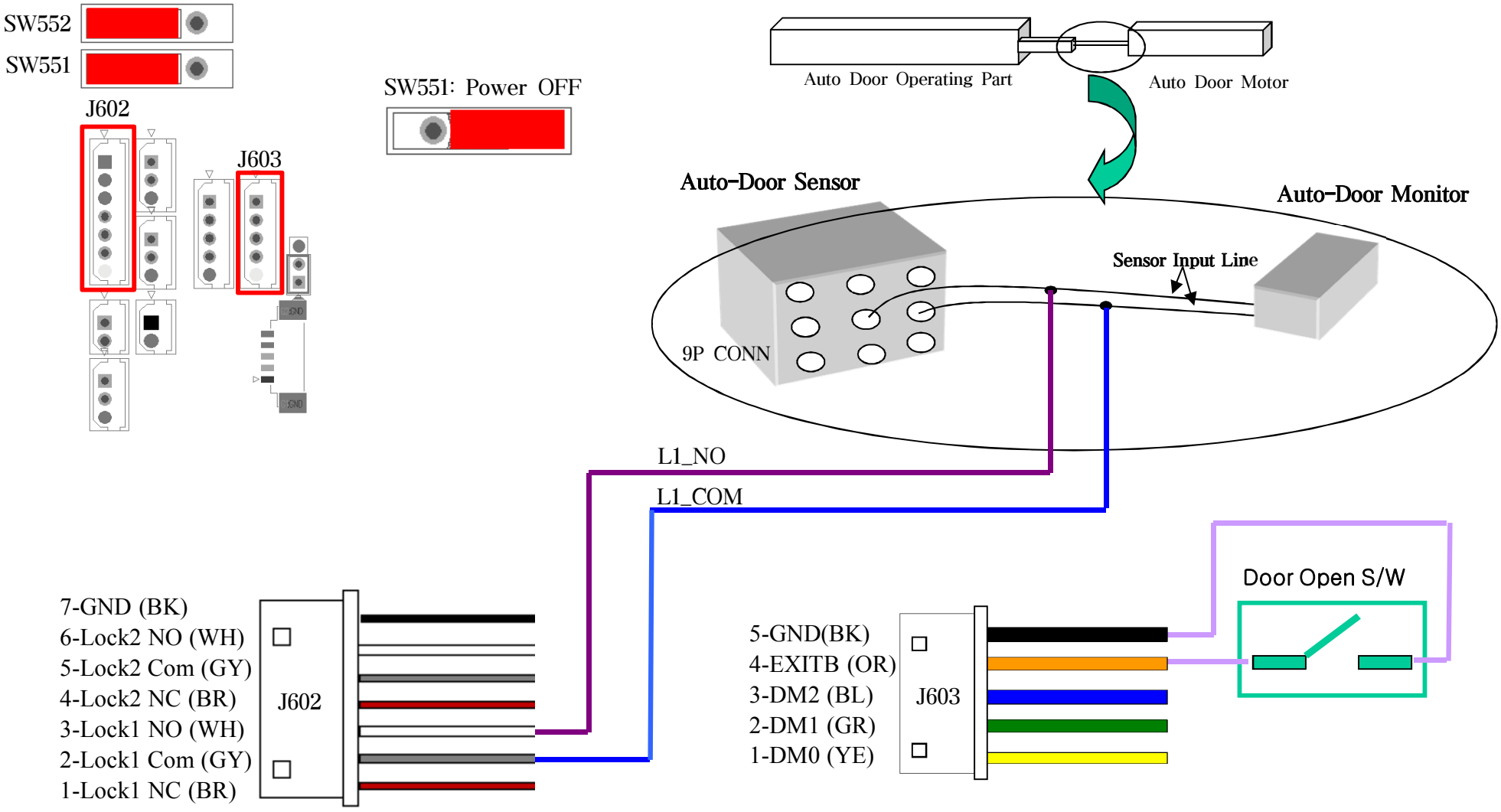
10. Connecting Auto-Door (Contact Control)

10.1. Connecting One System/ One Door



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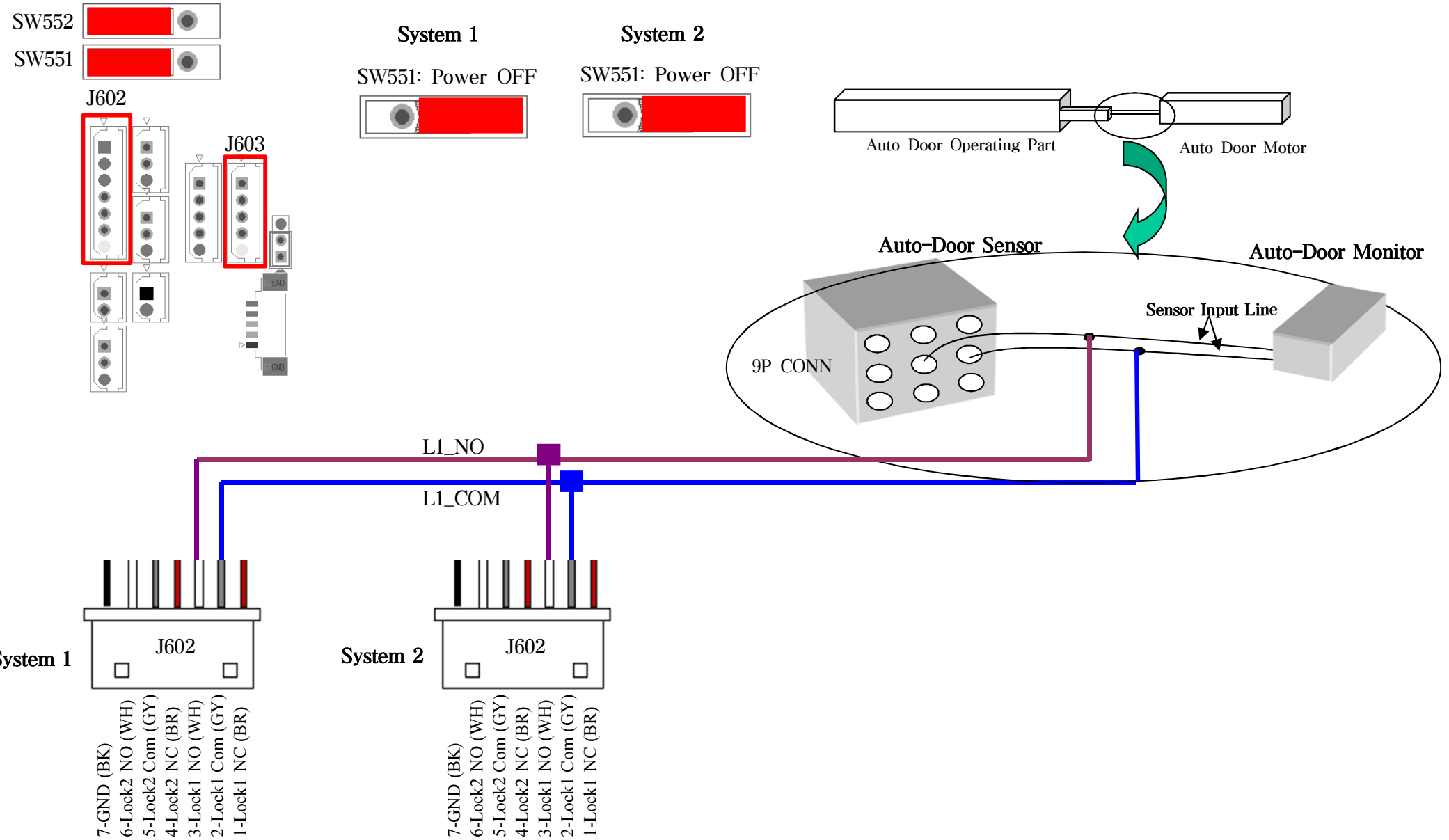
10.2. Connecting Two Systems/ One Door



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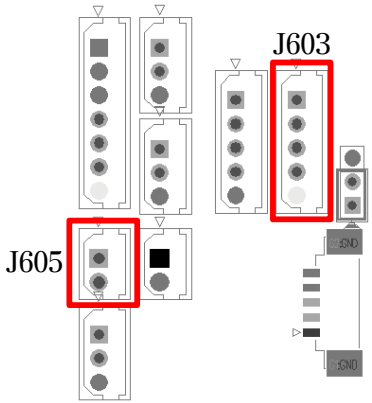
11. Connecting a Motorised Lock



Blue : Motor 2
Brown : Motor 1
Orange : Door Monitor(NO)
White : Ground
Yellow : Lock NC Signal
Black : Ground
Red : Lock NO Signal

- Motor Lock SPEC. : U9AL3MHD (DC24/0.3A).

Lock (+) — Motor 1
Lock (-) — Motor 2
DM0 — Door Monitor(NO)
DM1 — Lock NC Signal(NC)

J605
Motor- (Brown)
Motor+ (Yellow)

5-GND(BK)
4-EXITB (OR)
3-DM2 (BL)
2-DM1 (GR)
1-DM0 (YE)
J603

Exit B
Door Open S/W
Ground

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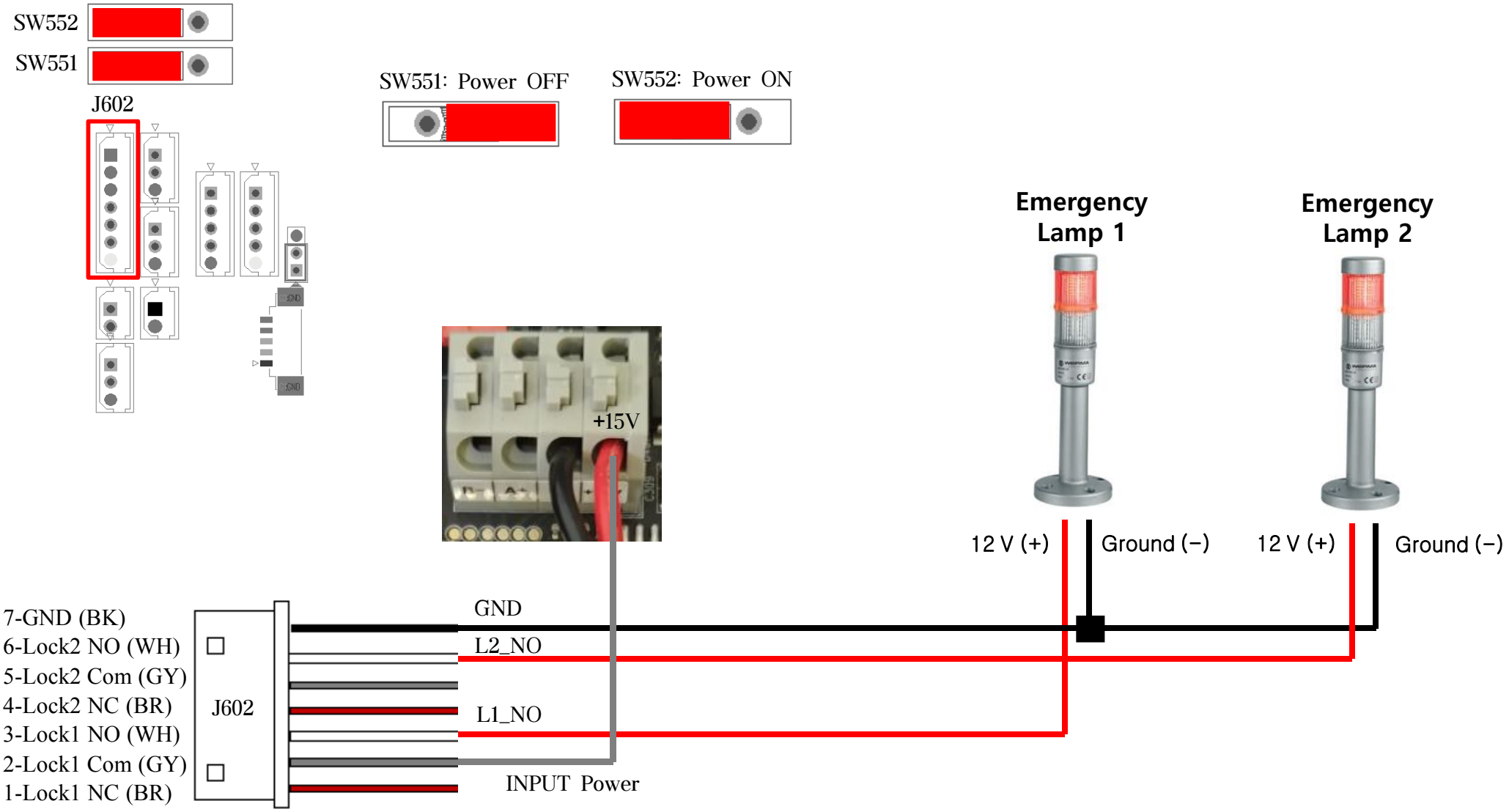
12. Connecting Two Emergency Lamps



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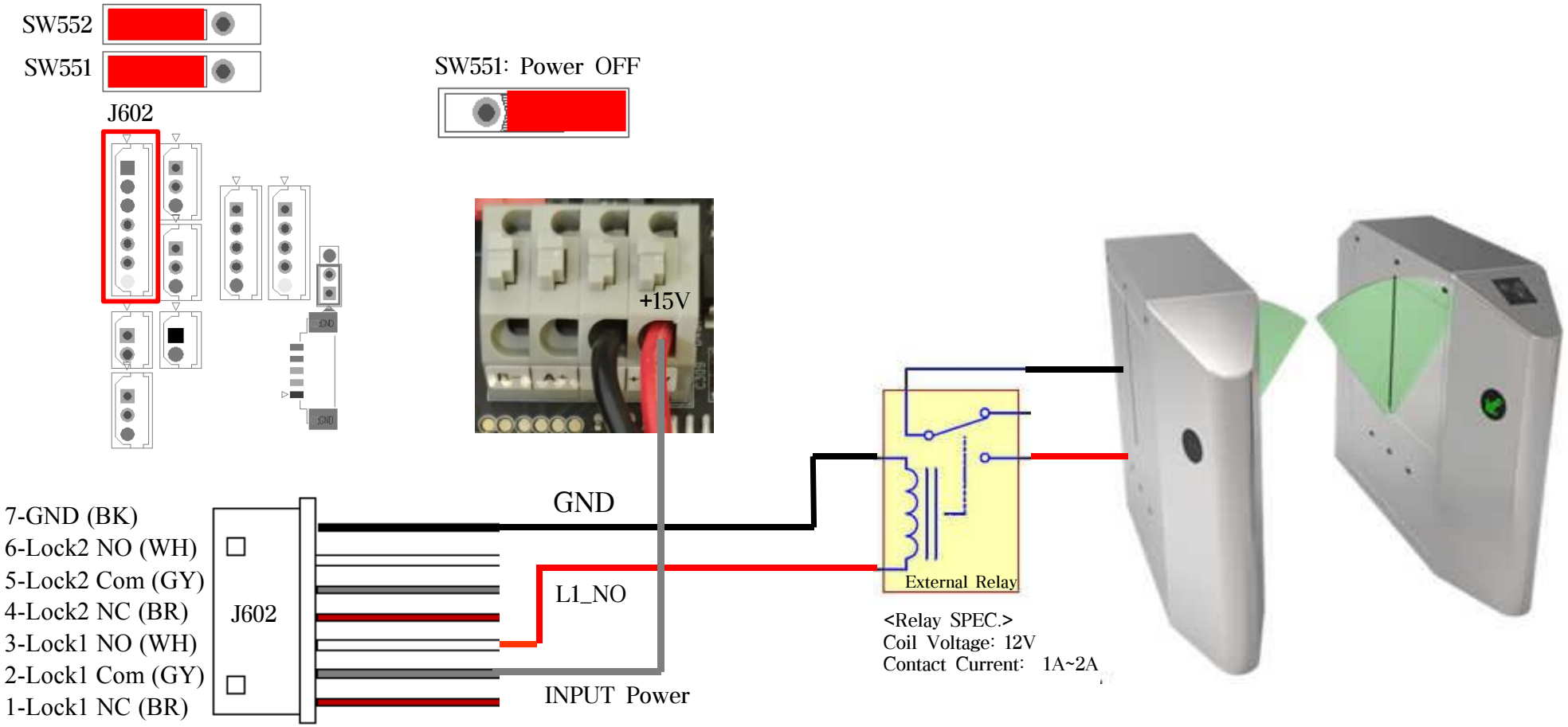
13.1 How to connect an external relay



** It is recommended to connect an external relay if a problem occurs after connection with an external equipment such as a speed gate.

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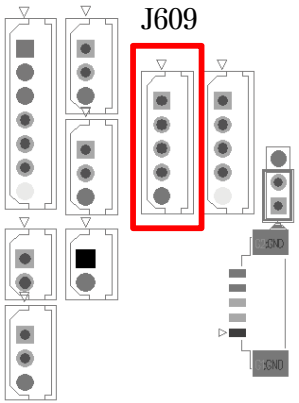
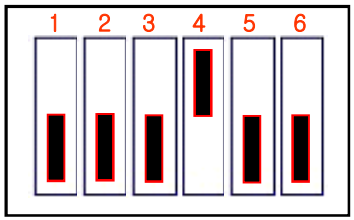
13.2 How to connect the VS-R20D RF Dummy Card Reader



SW51 Select S/W

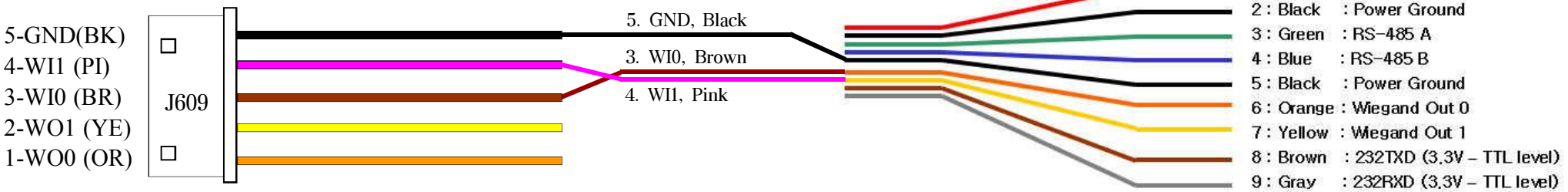


ON [1]

OFF [0]

* 1, 2, 3 OFF: 26Bit
* 4 ON: Wiegand Mode

Wiegand Cable (5P)



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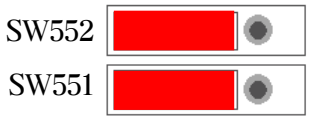
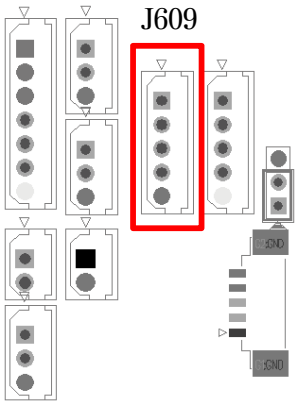
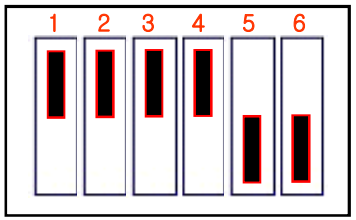
13.3 How to connect the VS-R20D SC Dummy Card Reader





SW51 Select S/W



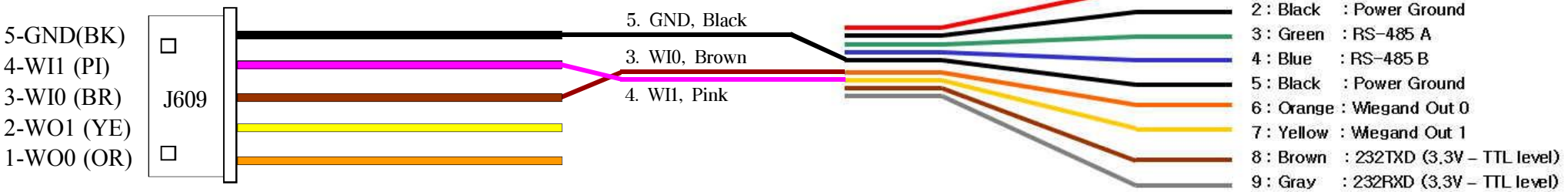
ON [1]

OFF [0]

* 1, 2, 3 ON: 34Bit
* 4 ON: Wiegand Mode

Adapter

Wiegand Cable (5P)



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** Recommend installation guide1 (RF & SC Card)

** In order to prevent RF / SC card antenna interference between products, install at least 10cm apart from each other.

** Card recognition distance may be reduced when installed within 10cm.

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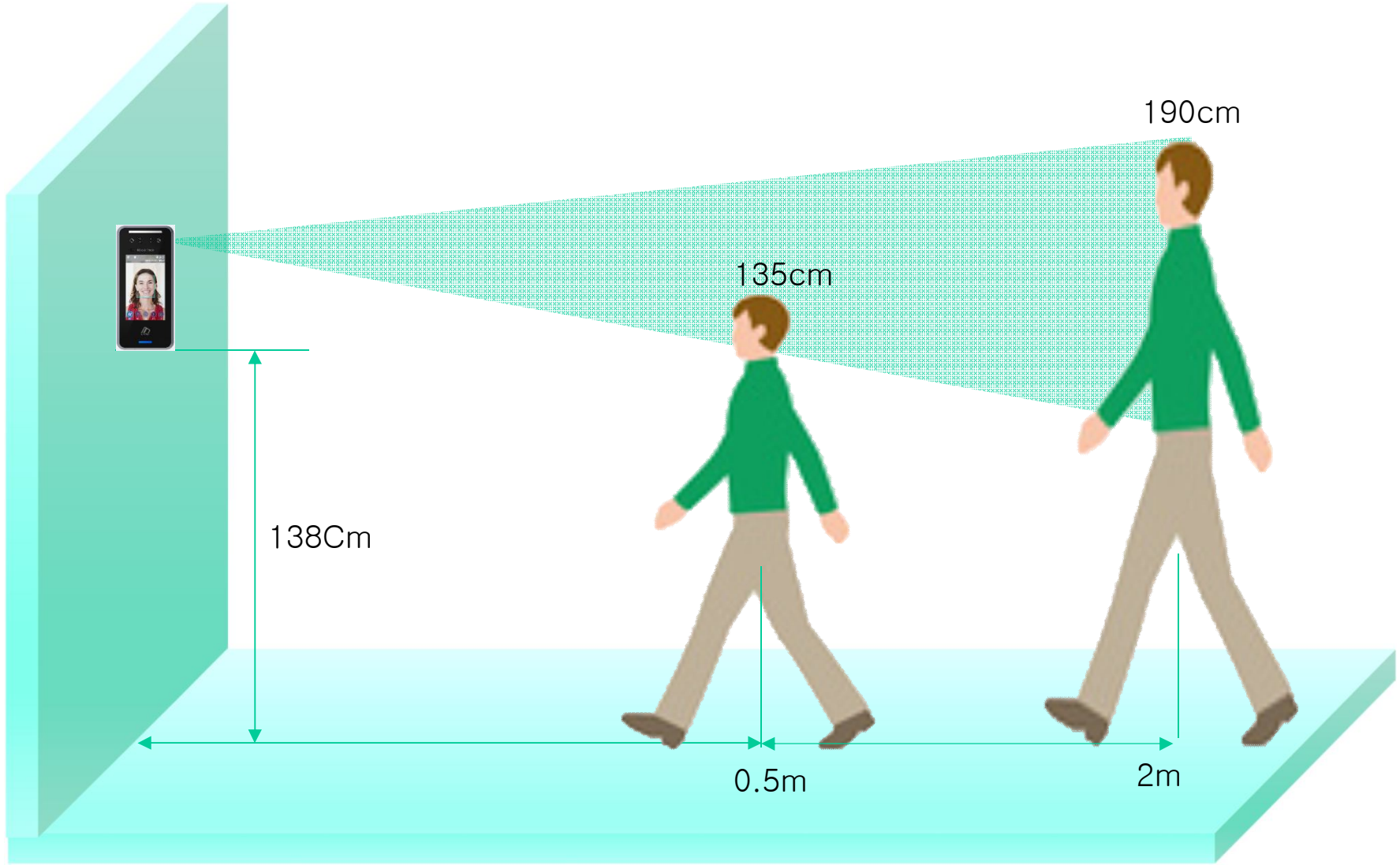
** Recommend installation guide 2



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