Installation Guide *for AC-7000 V1.0*

Face Recognition Terminal

Doc Ver1.4

June.,18.2019

R&D Center

Union Community Co., Ltd.

1. The maximum cable length & thickness for installation

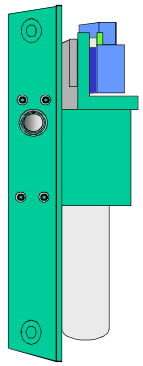
1) Using 12V 3.5A Power Supply & AWG24

12V 3.5A Adapter

AWG24 10m

AC-7000

AWG24 5m



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

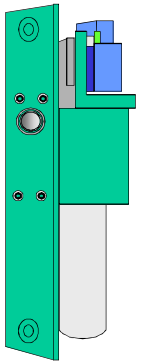
2) Using 12V 3.5A Power Supply & AWG22

12V 3.5A Adapter

AWG22 15m

AC-7000

AWG22 10m



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

* Caution: The data is the value when using the adapter and the dead-bolt supplied by the Union Community.

1. The maximum cable length & thickness for installation

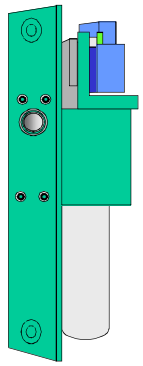
3) Using 15V 4A Power Supply & AWG24

15V 4A Adapter

AWG24 15m

AC-7000

AWG24 10m



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

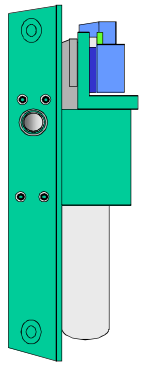
4) Using 15V 4A Power Supply & AWG22

15V 4A Adapter

AWG22 30m

AC-7000

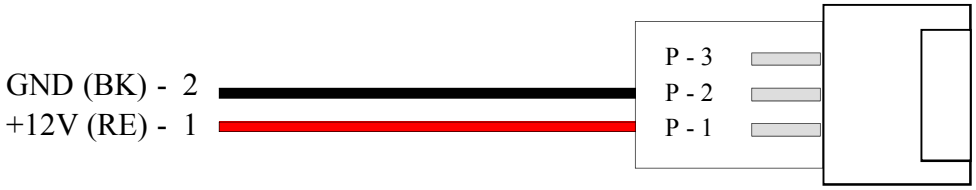
AWG22 20m



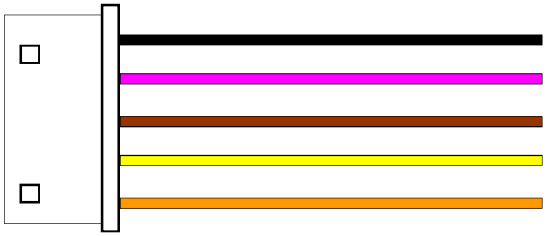
Dead-Bolt
BEHOST BHL-700C
(Standby:0.15A, Start:0.9A)

* Caution: 1. The data is the value when using the adapter and the dead-bolt supplied by the Union Community.
2. If using another dead-bolt, you should ensure that the dead-bolt works well with 15V power supply

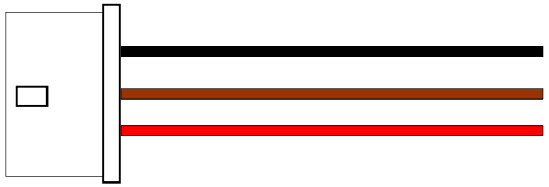
2. Description of External Cables



Power Adapter Cable



Wiegand Cable (5P)

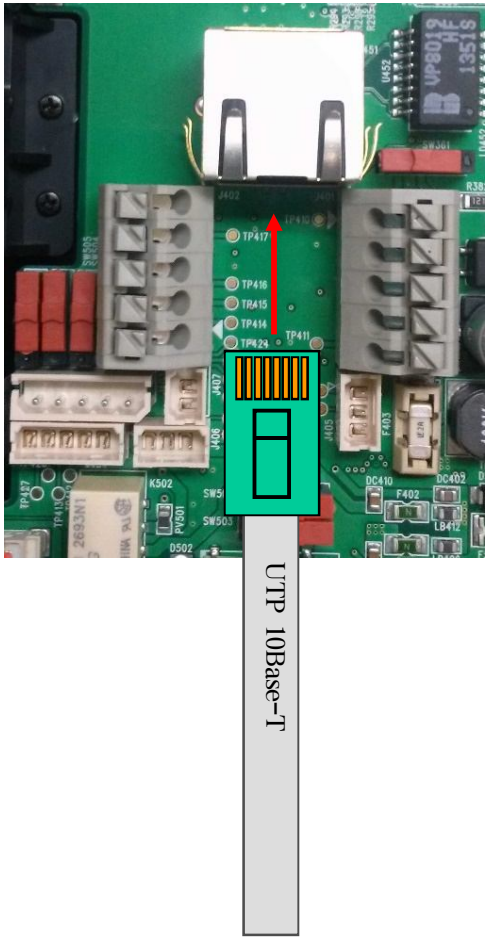


RS232 Cable (3P)

Lock Status Cable (5P)

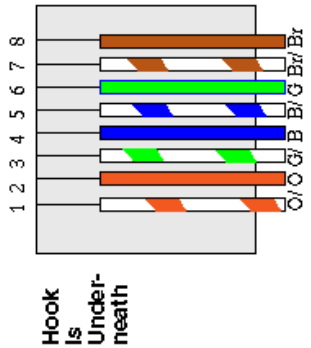
3. Connecting Ethernet (LAN) Cable

J451-RJ45

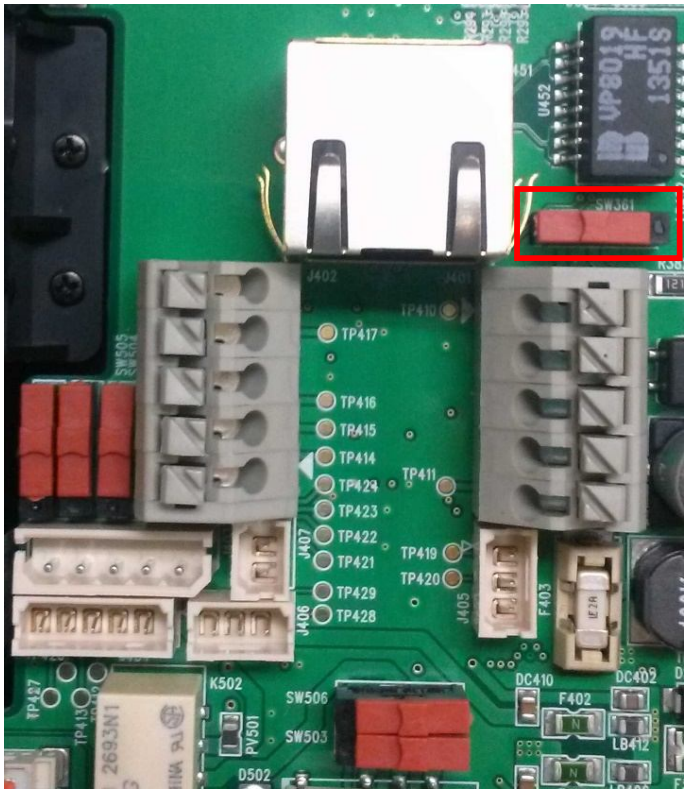


Switch Hub

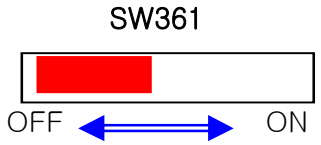
** UTP Connector



4. Resistor Setting for RS485 End Termination

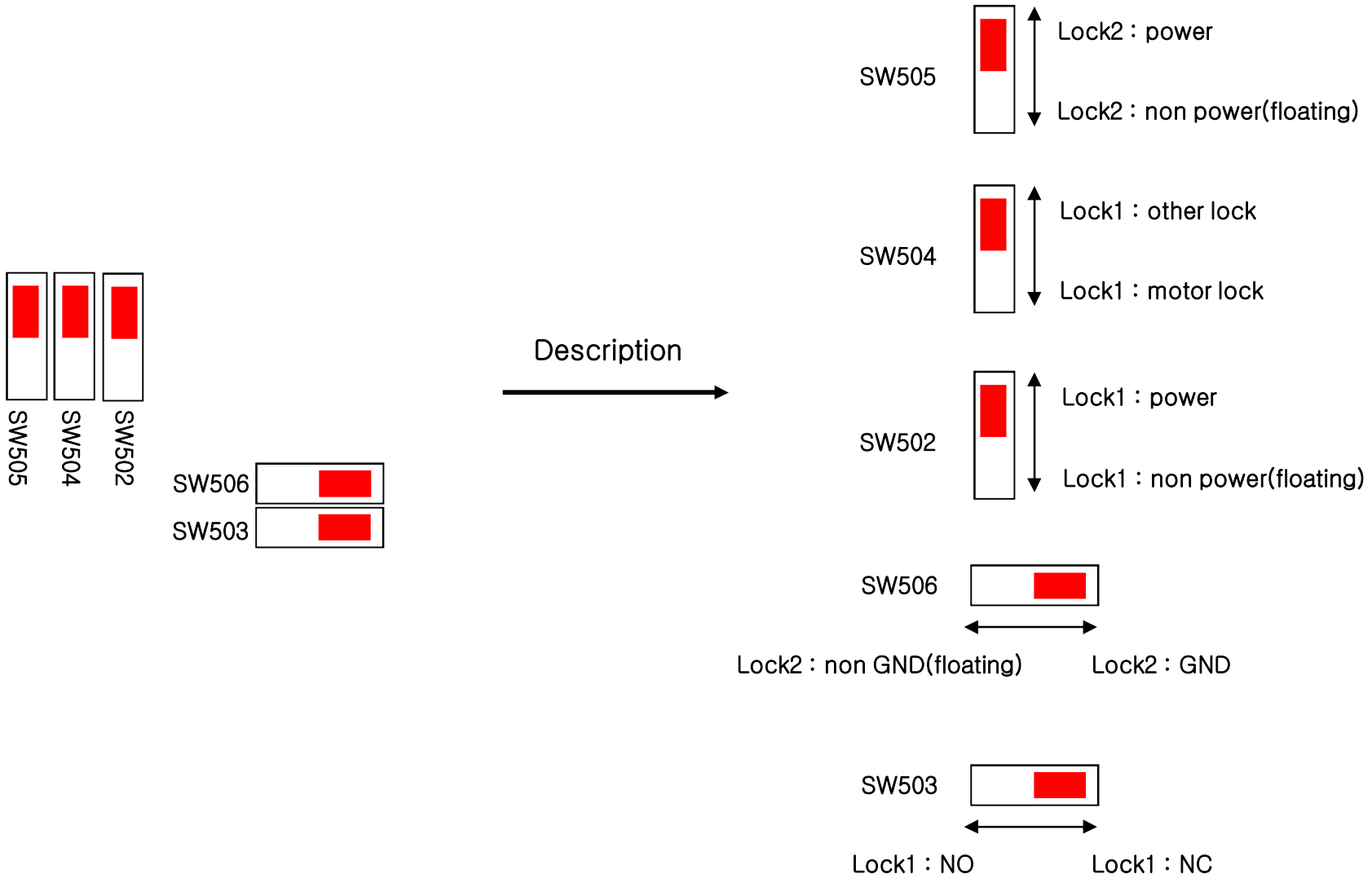


SW361



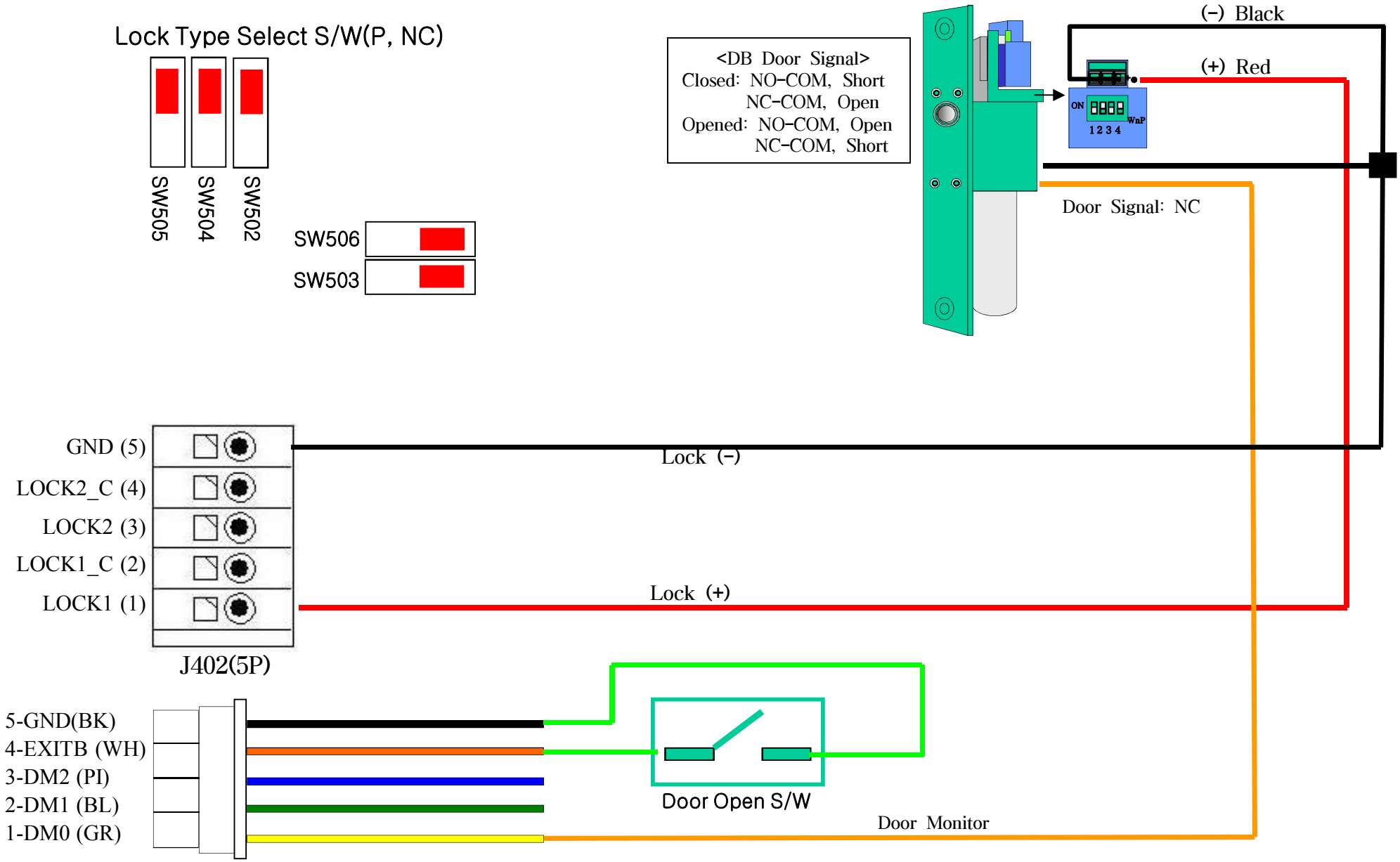
* Default Setting is off.
* ON: 120 Ohm Resistor is connected between 485A and 485B

5. Description of the switch for setting lock



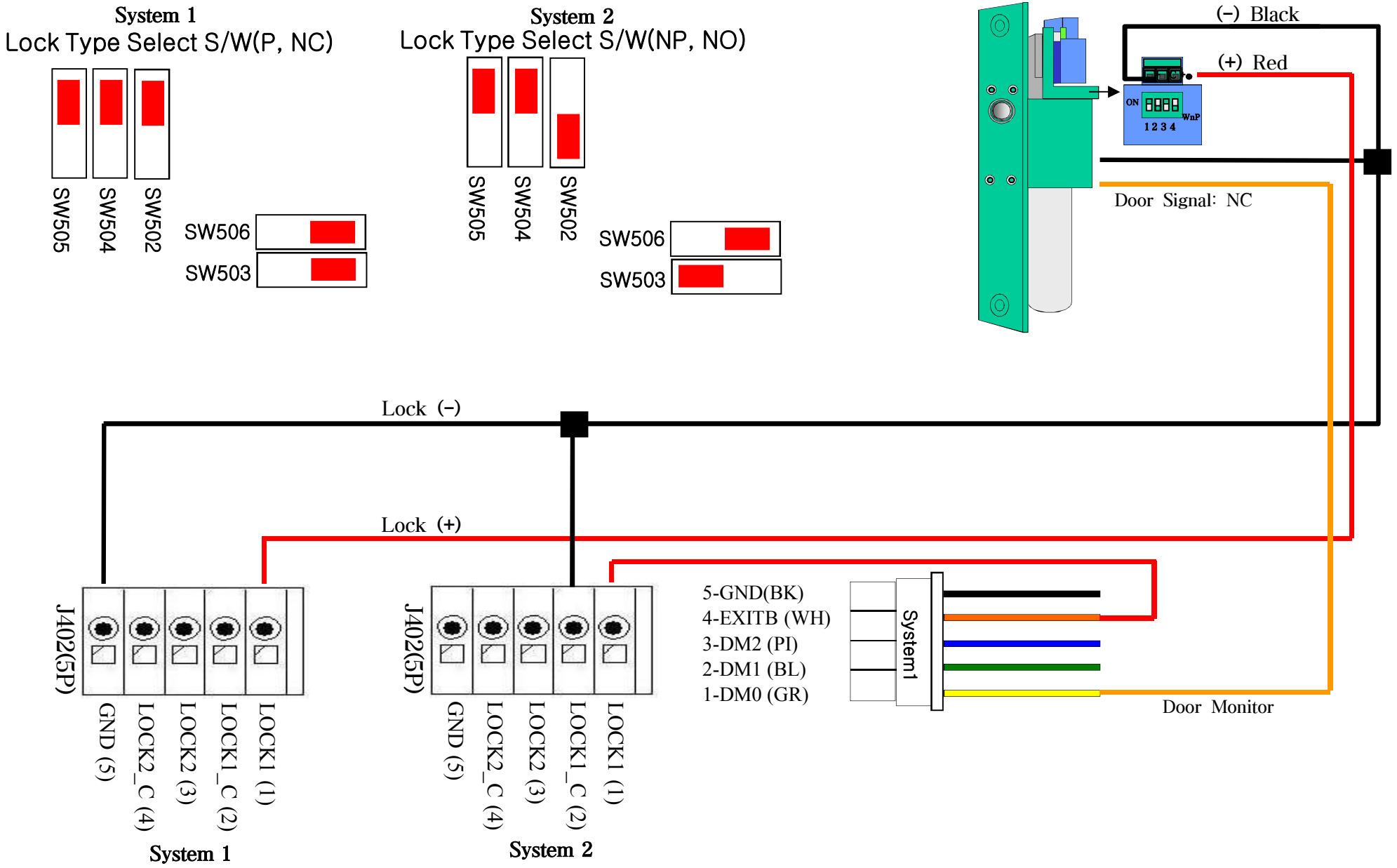
6. Connecting a Dead-Bolt Type Door Lock (Fail Safe)

6.1. Connecting One System/ One Lock



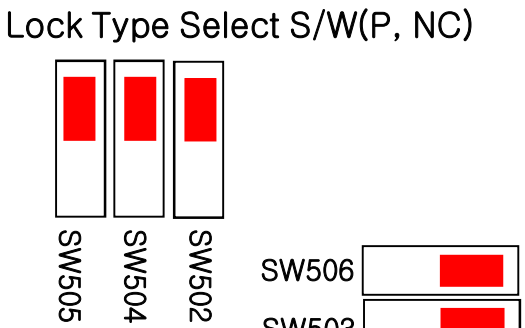
6. Connecting a Dead-Bolt Type Door Lock (Fail Safe)

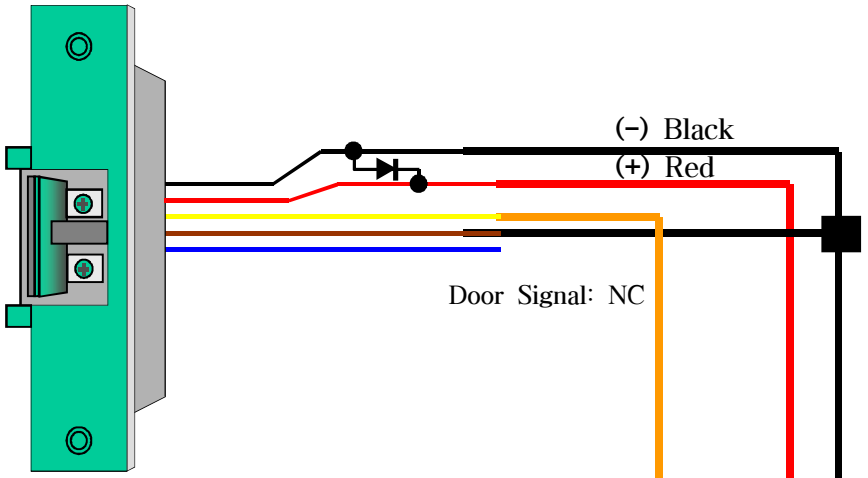
6.2. Connecting Two Systems/ One Lock

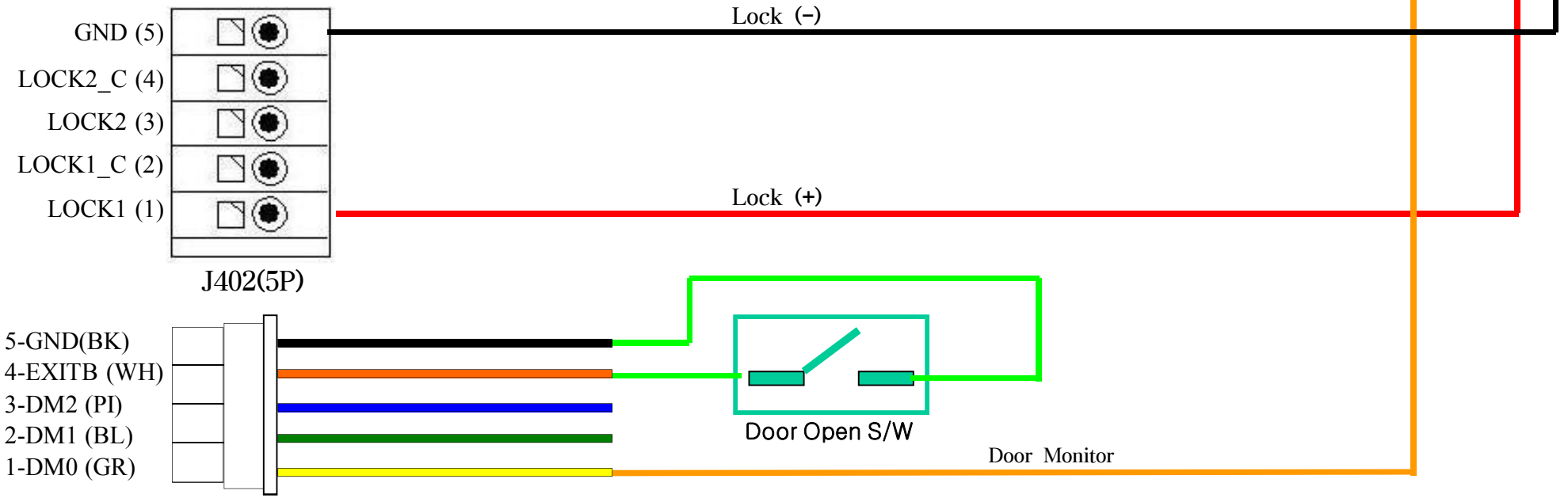


7. Connecting a Strike Type Door Lock (Fail Safe)

7.1. Connecting One System/ One Lock

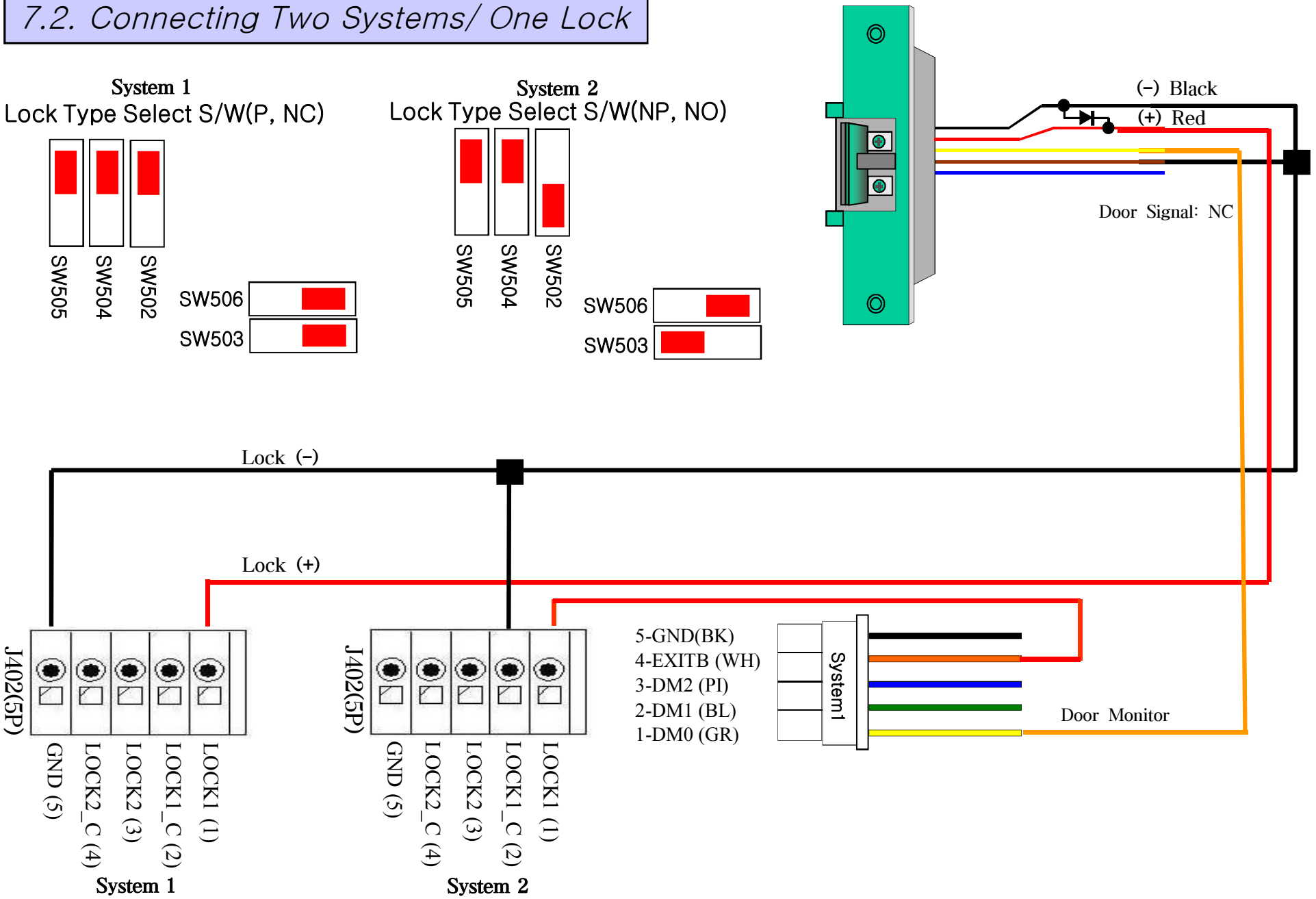






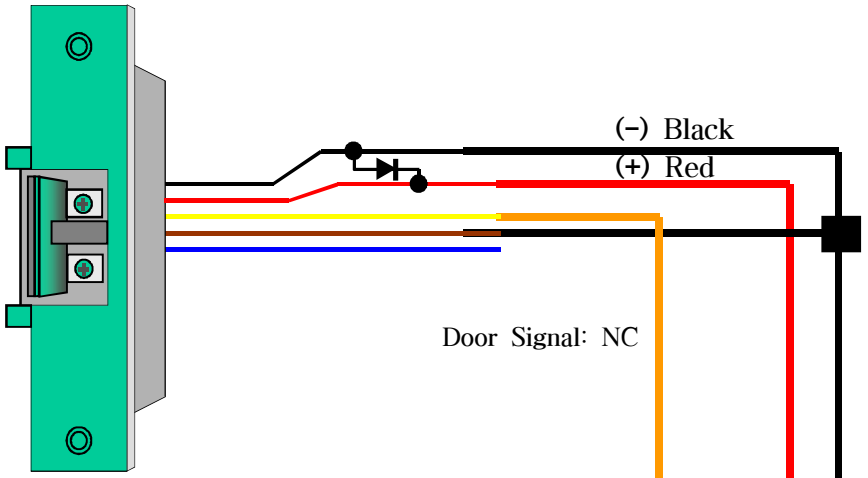
7. Connecting a Strike Type Door Lock (Fail Safe)

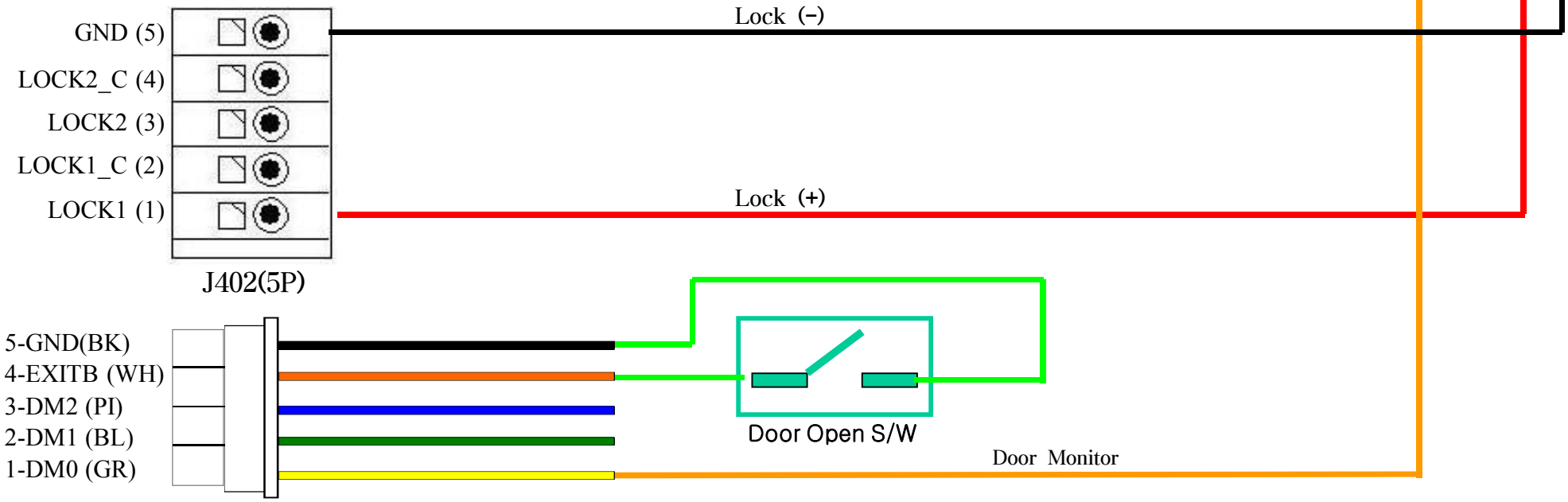
7.2. Connecting Two Systems/ One Lock



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

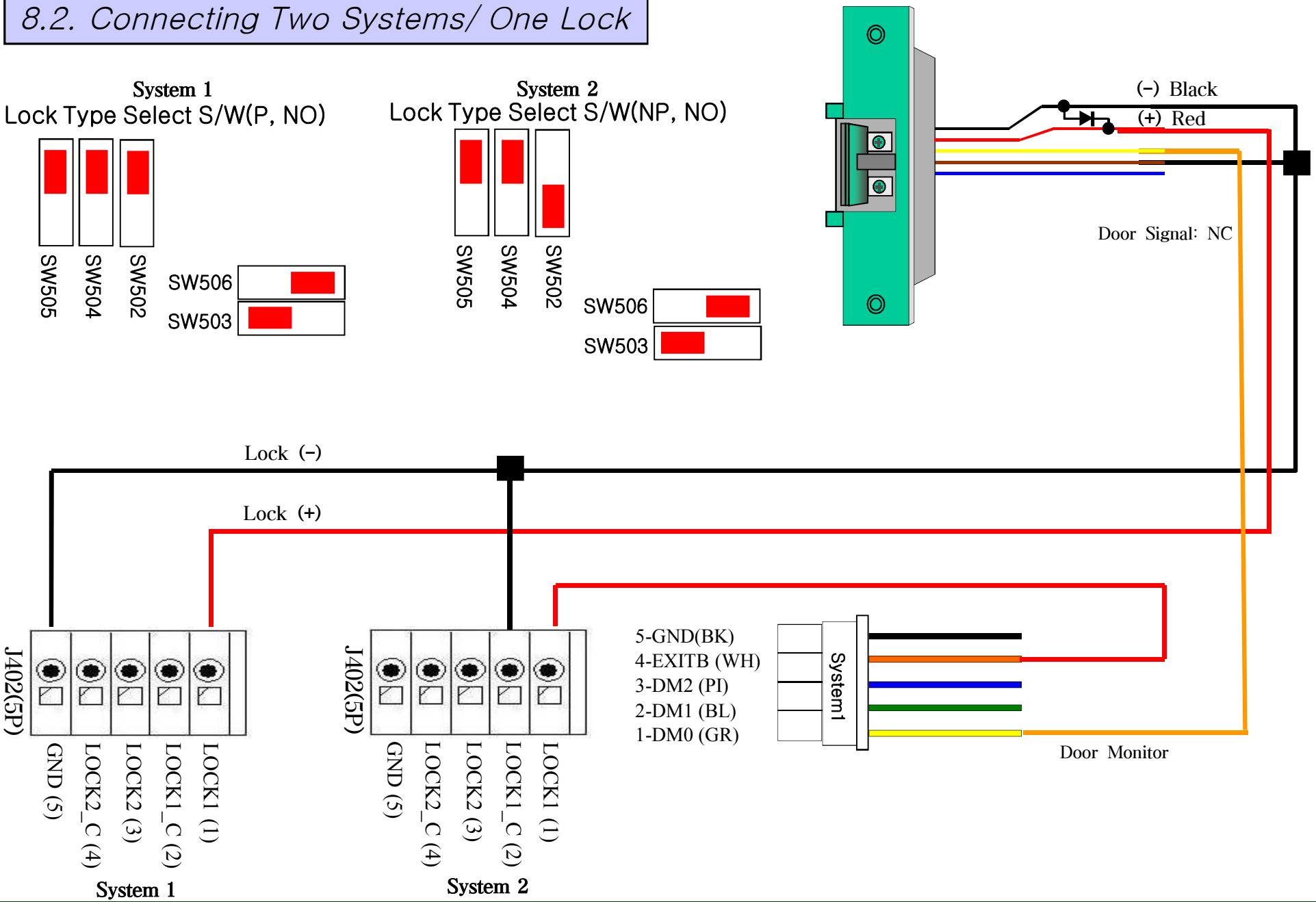
8.1. Connecting One System/ One Lock





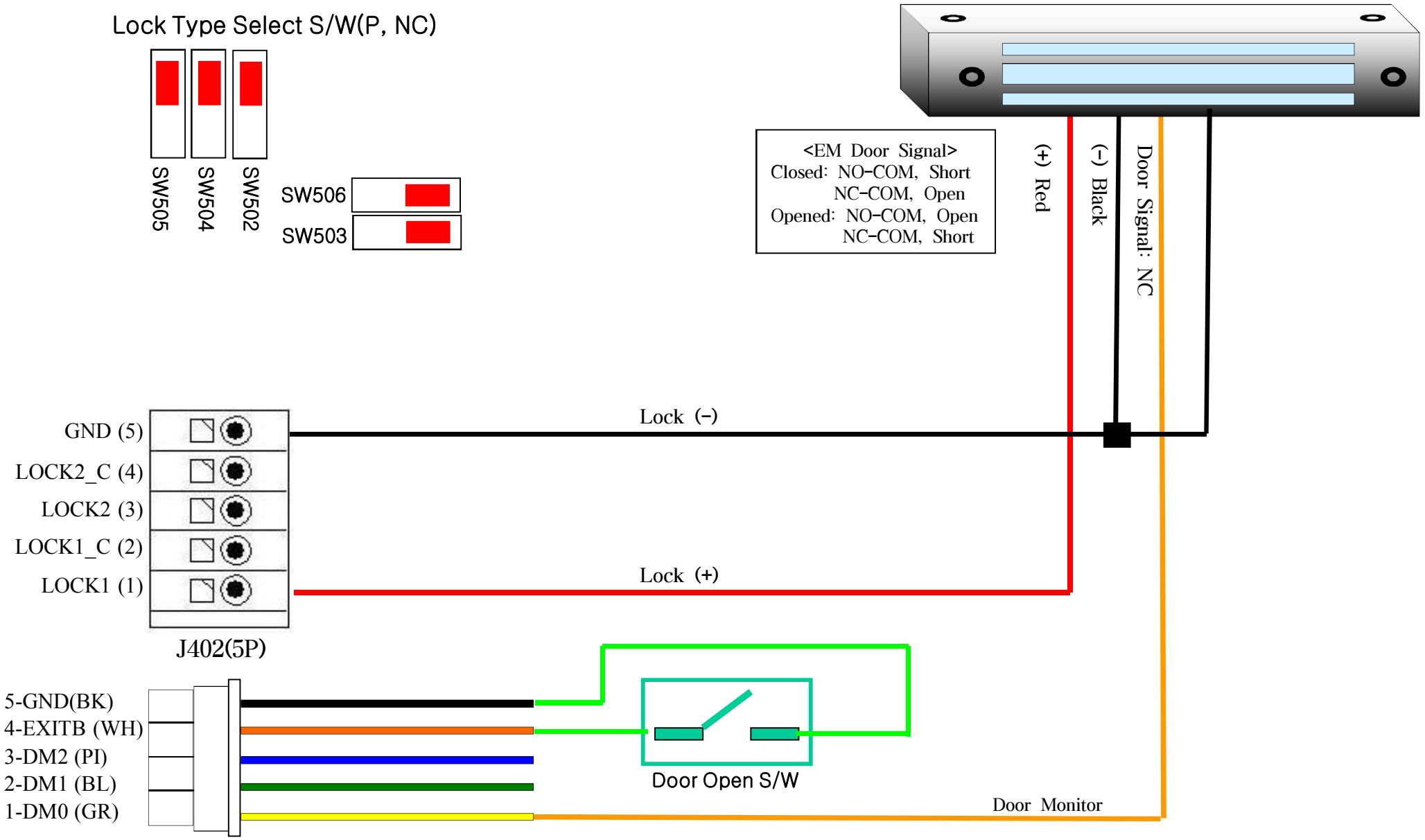
8. Connecting a Strike Type Door Lock (Fail Secure)

8.2. Connecting Two Systems/ One Lock



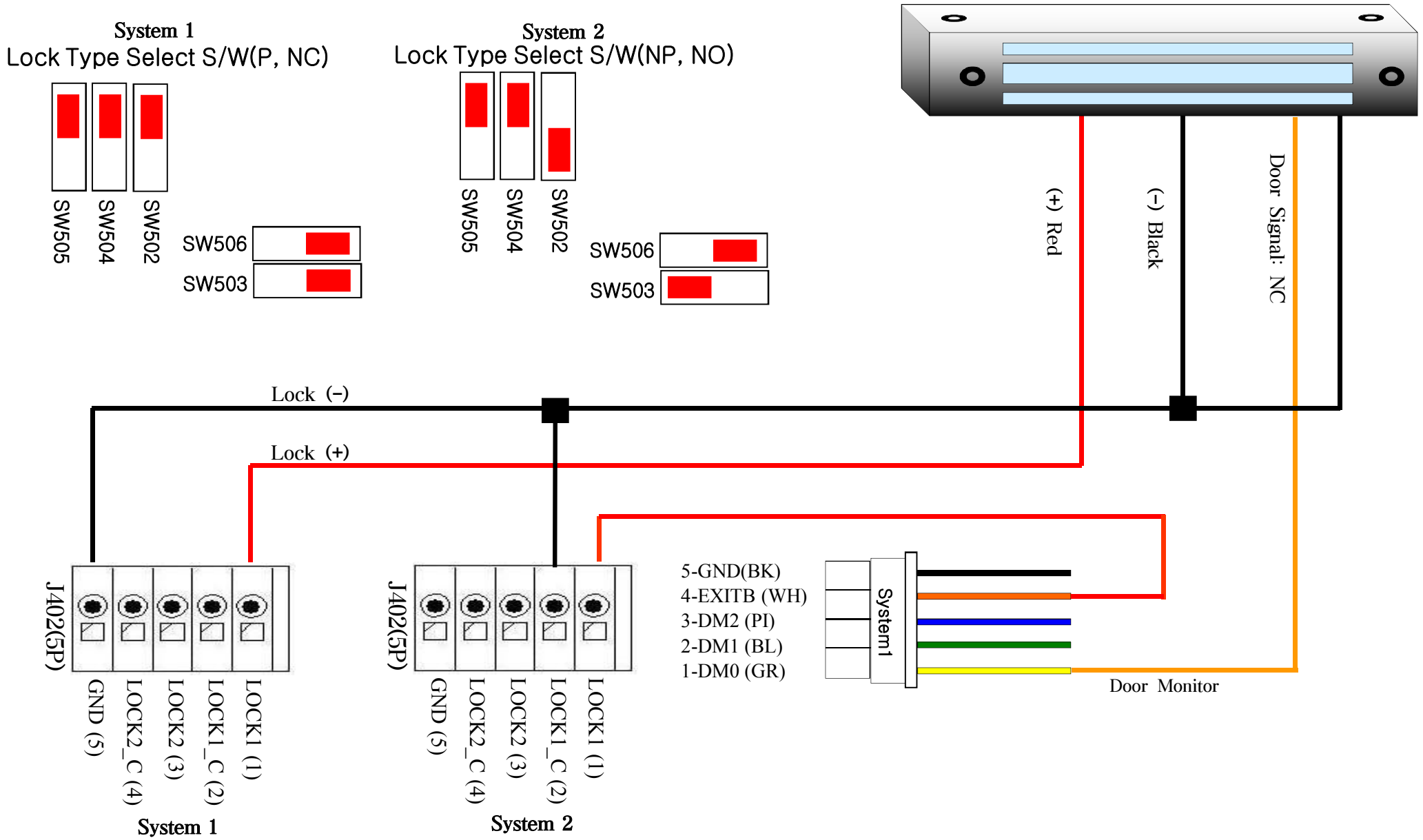
9. Connecting an EM Type Door Lock (Fail Safe)

9.1. Connecting One System/ One Lock



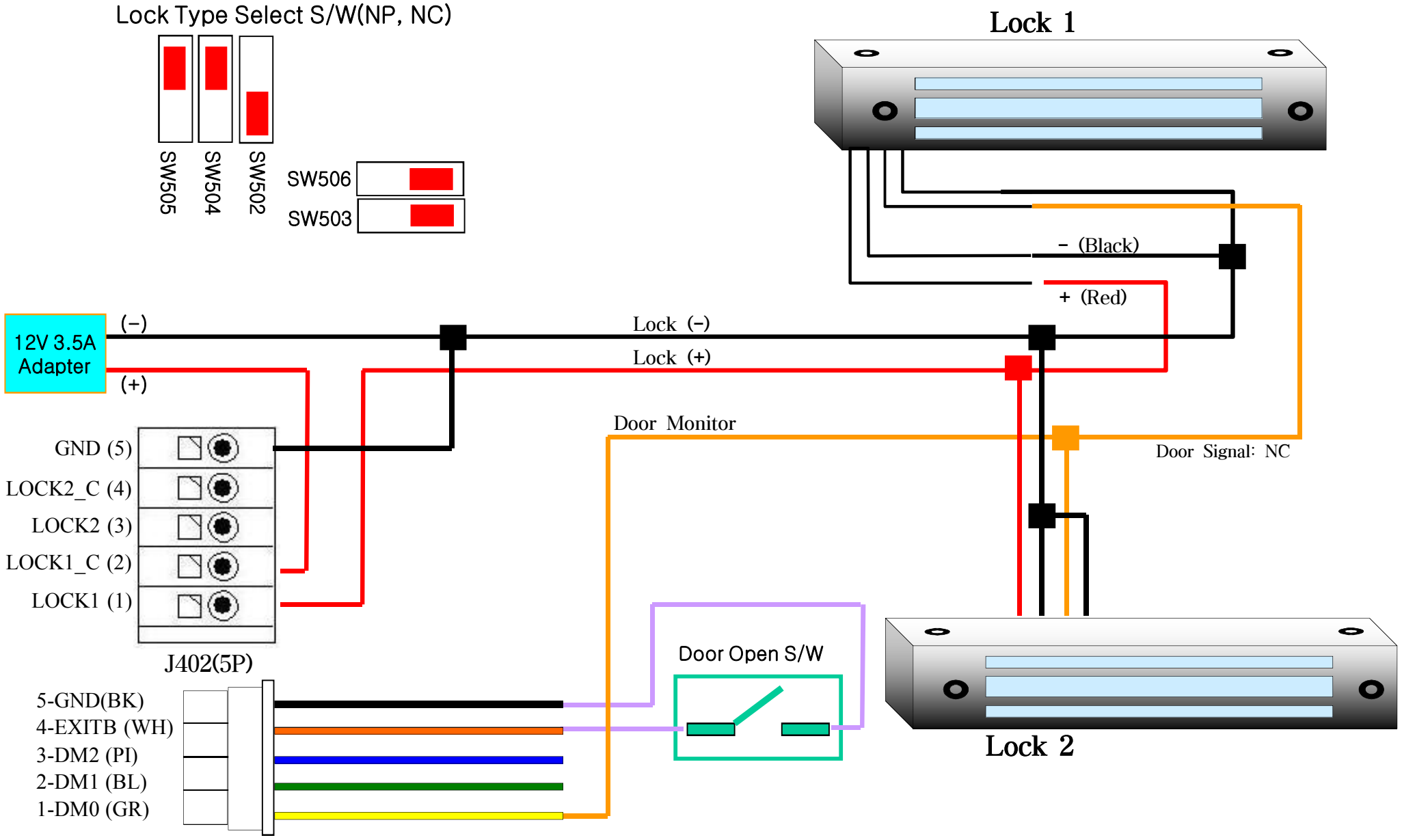
9. Connecting an EM Type Door Lock (Fail Safe)

9.2. Connecting Two Systems/ One Lock

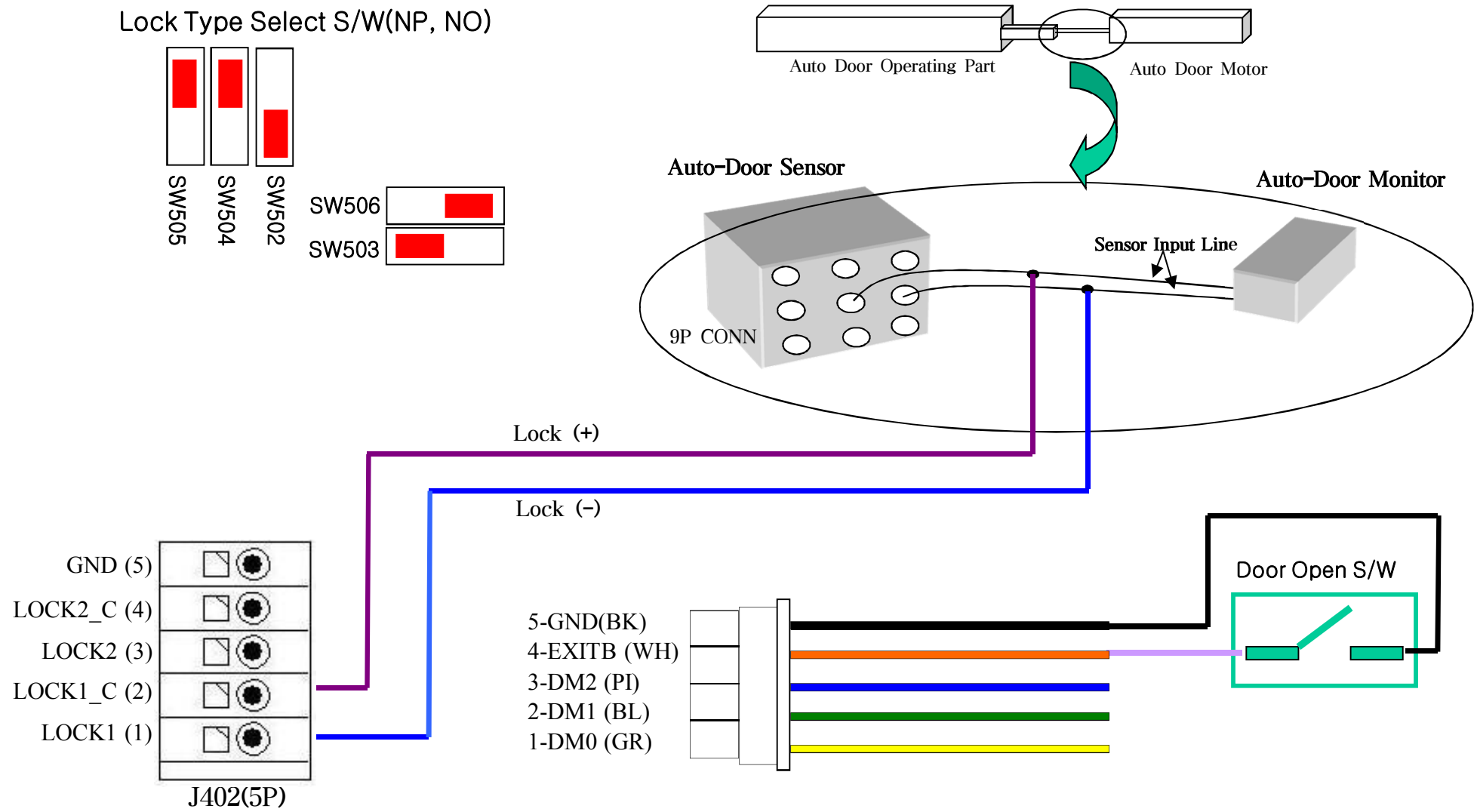


9. Connecting an EM Type Door Lock (Fail Safe)

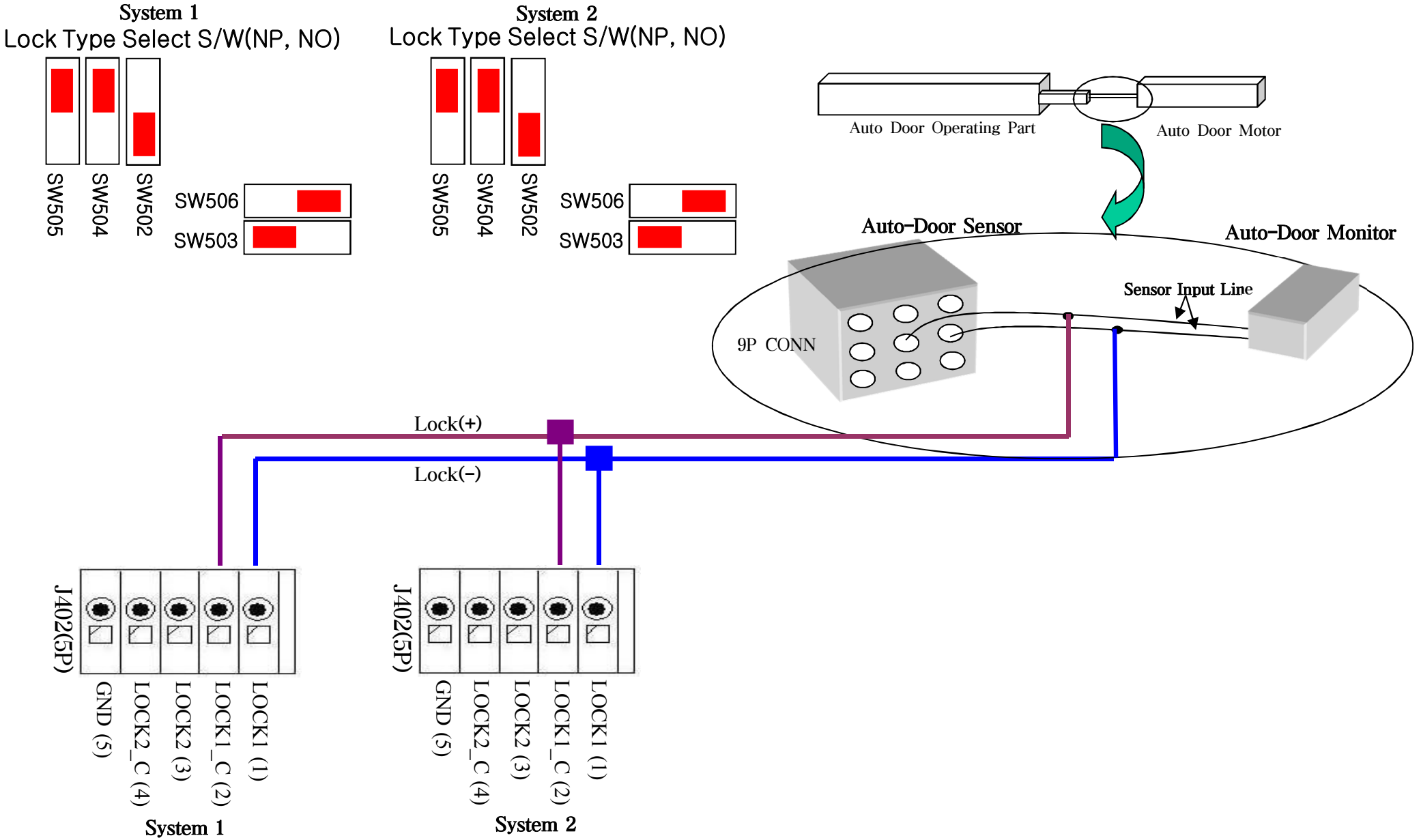
9.3. Connecting One System/ Two Locks " Use external DC Power adapter"



10.1. Connecting One System/ One Door



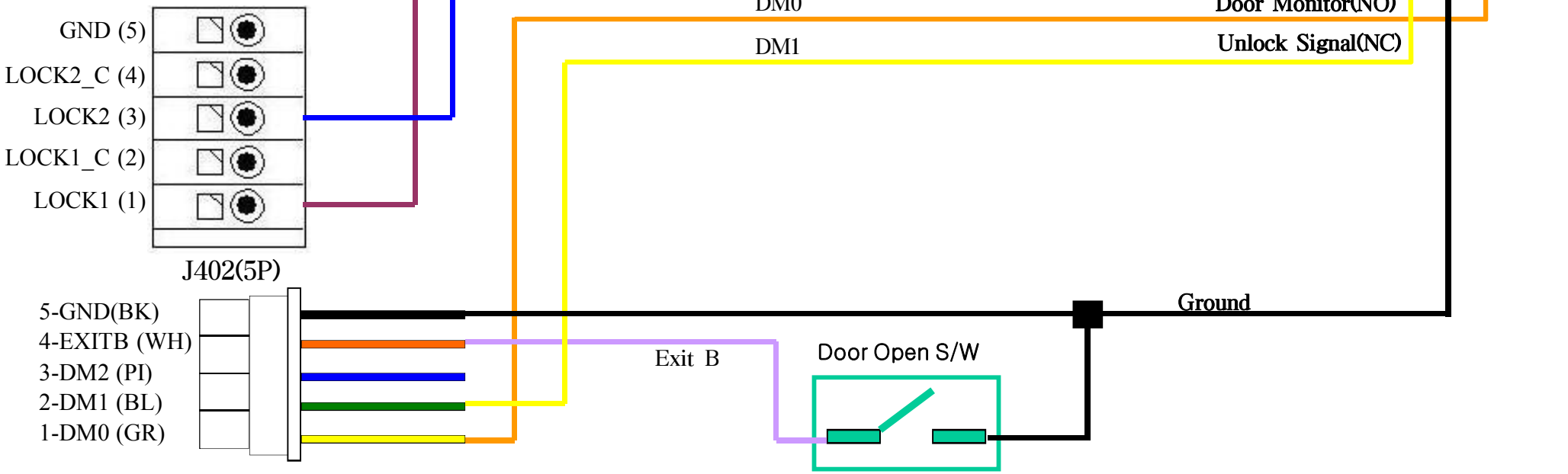
10.2. Connecting Two Systems/ One Door



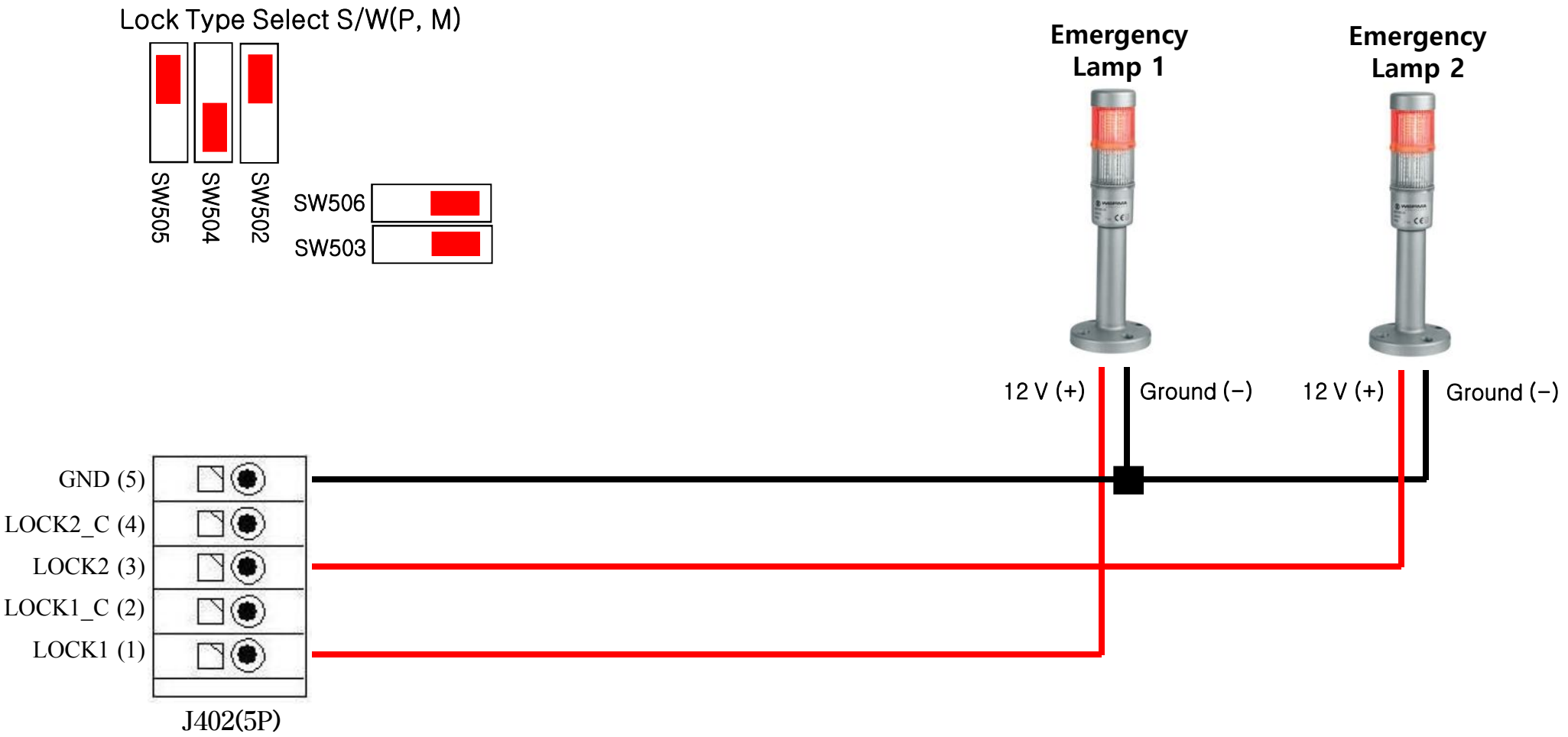
11. Connecting a Motorised Lock

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).

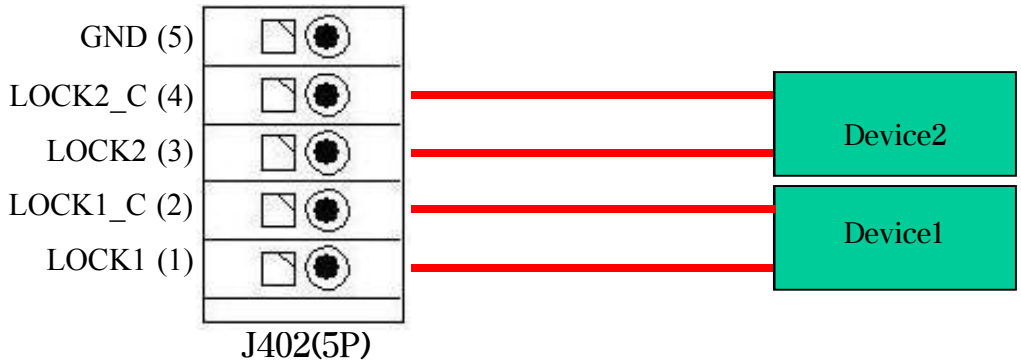


12. Connecting Two Emergency Lamps



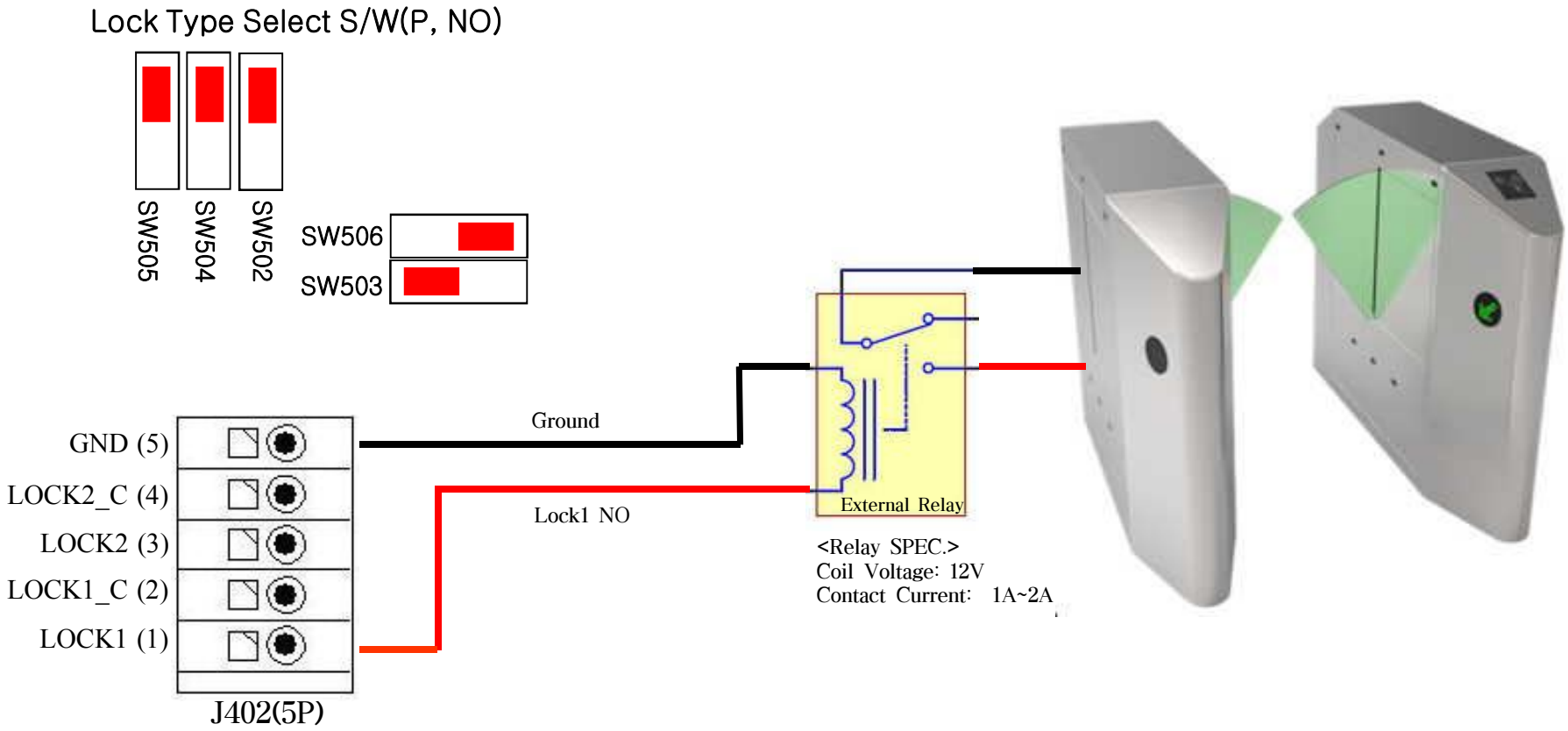
13. Connecting Two Non-powered contacts

Normal Open Type

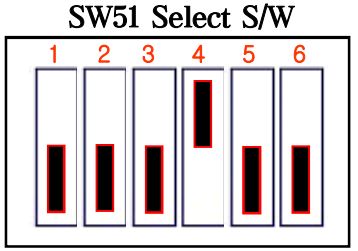


14.1 How to connect an external relay

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

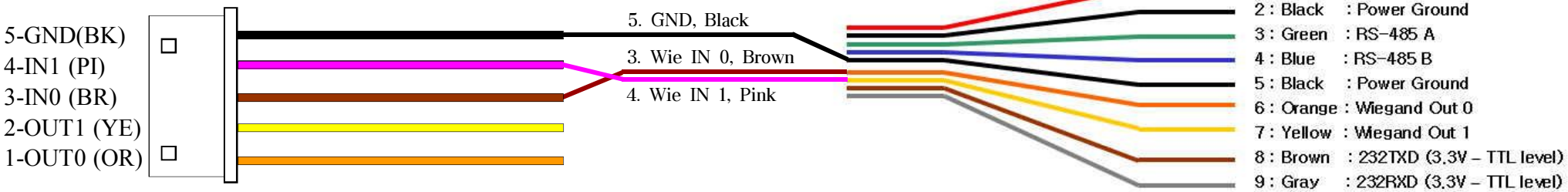


14.2 How to connect the VS-R20D RF Dummy Card Reader

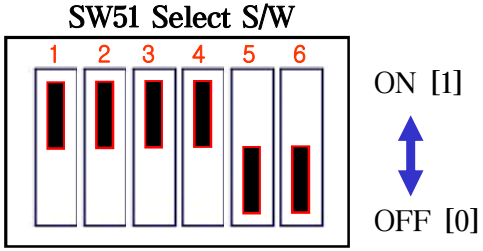


* 1, 2, 3 OFF: 26Bit
* 4 ON: Wiegand Mode

Wiegand Cable (5P)

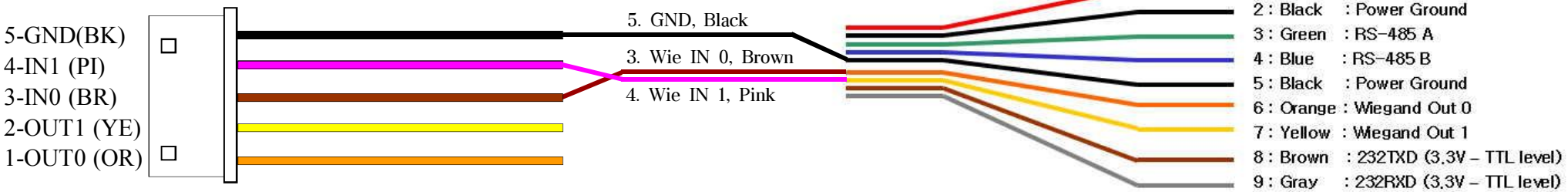


14.3 How to connect the VS-R20D SC Dummy Card Reader

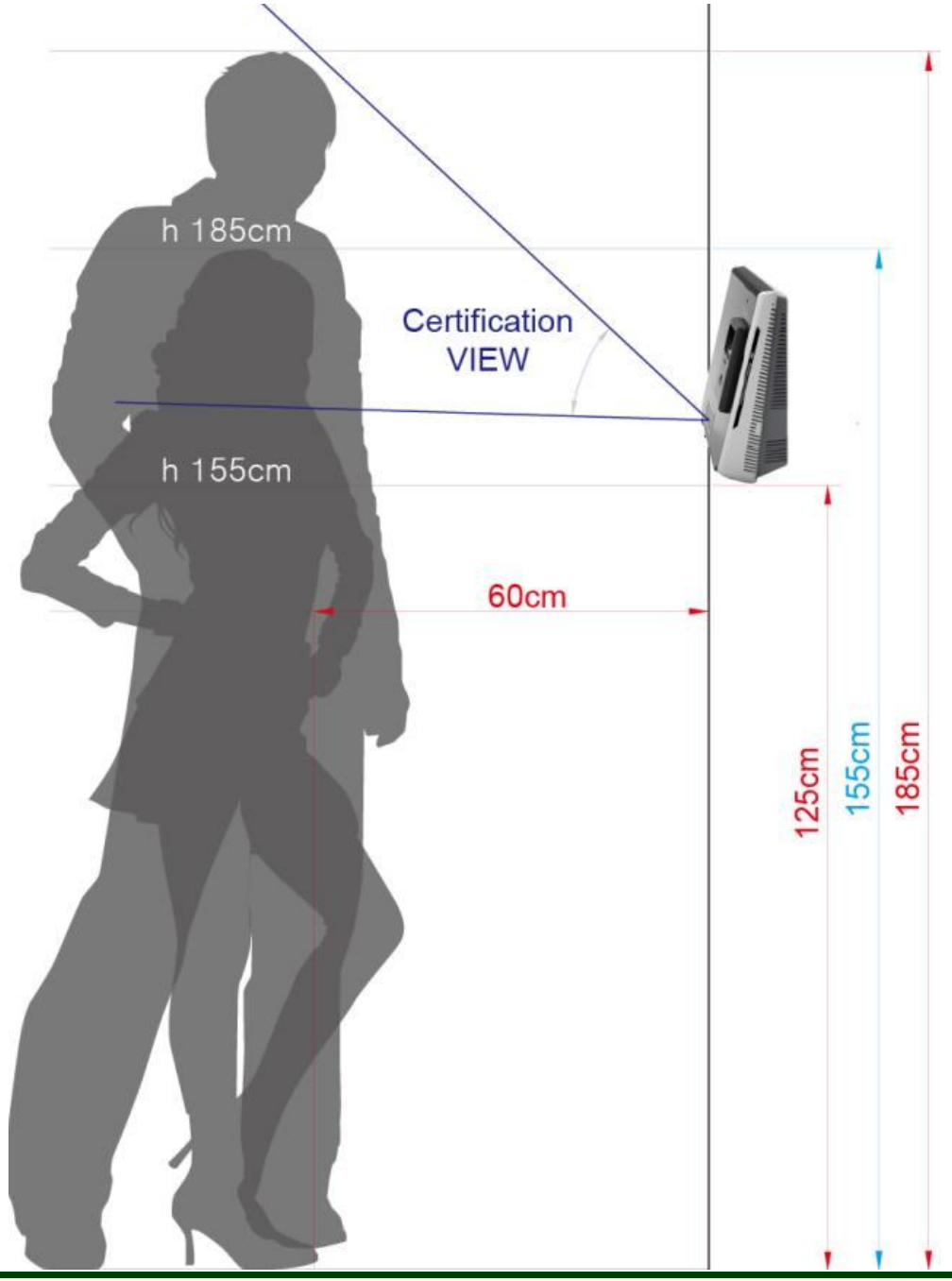


* 1, 2, 3 ON: 34Bit
* 4 ON: Wiegand Mode

Wiegand Cable (5P)



** Recommend installation guide



** 190cm 이상은 앞으로 약간 숙여 인증