

# ***Installation Guide for AC-6000 V1.4***

## ***Fingerprint Identification Terminal***



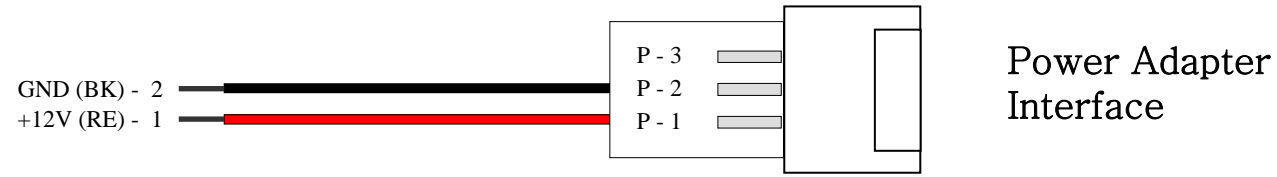
*Doc. Ver. : V1.10*

*Sep., 01.2009*

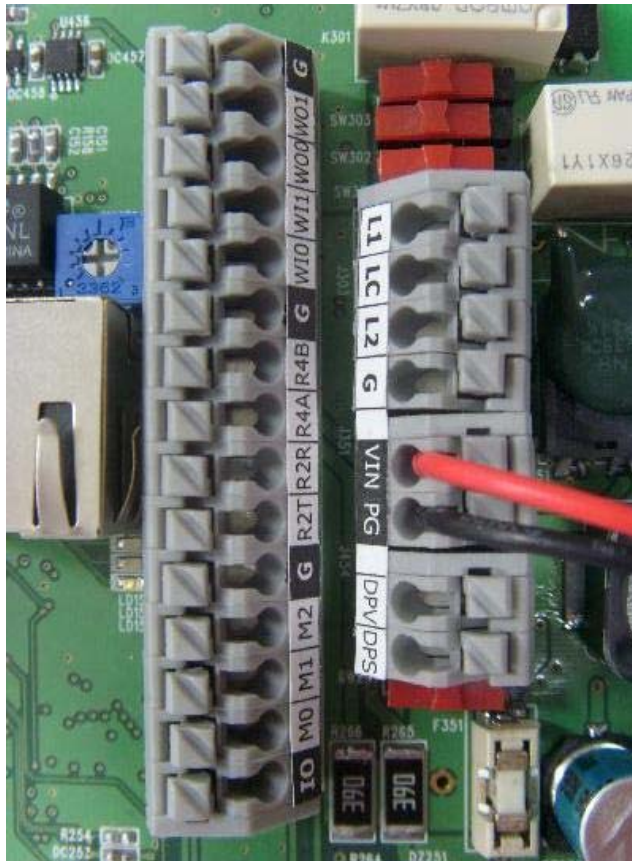
*R&D Center*

***Union Community Co., Ltd.***

# 1. Power Connector connection

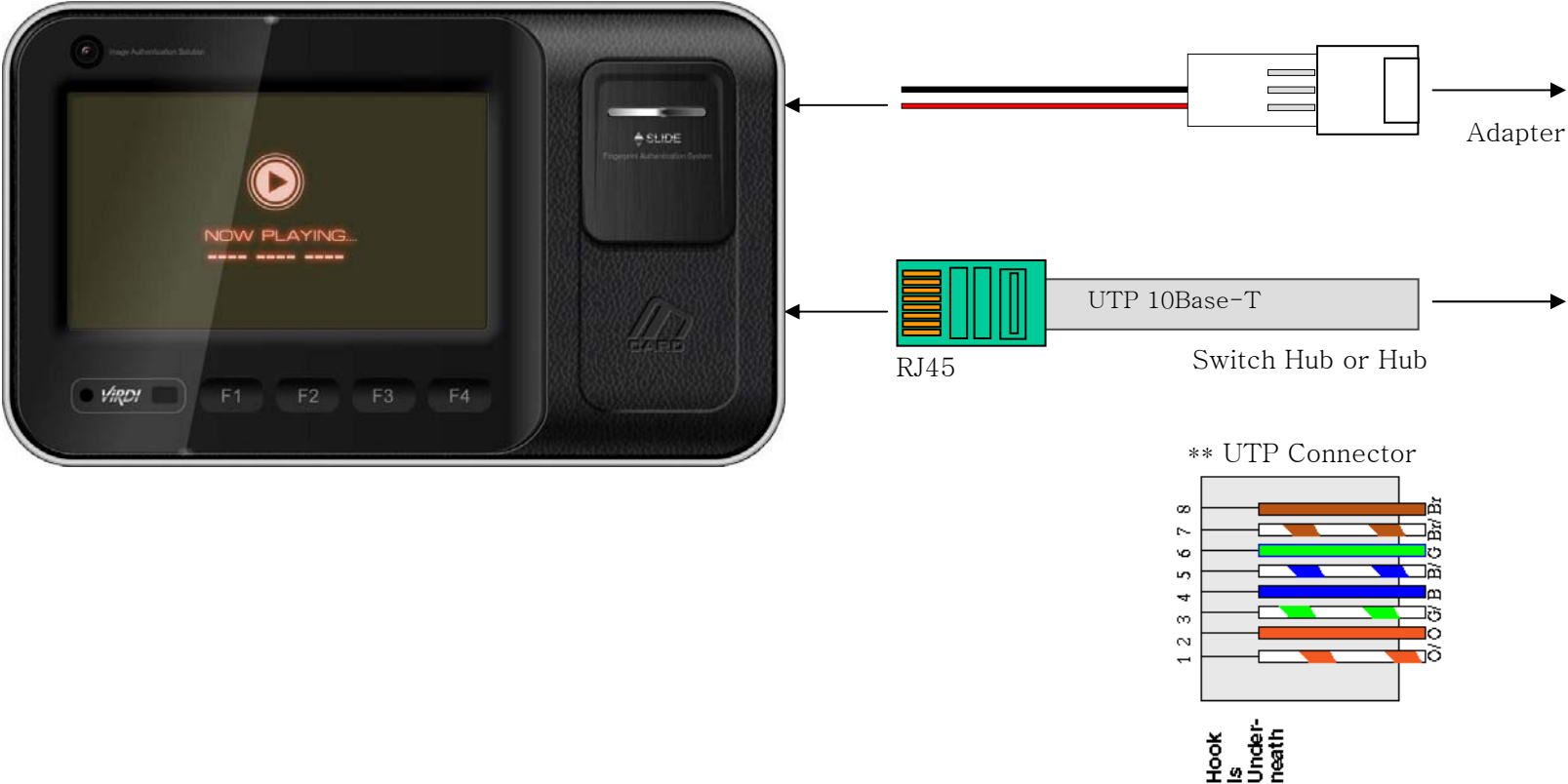


Power Adapter  
Interface

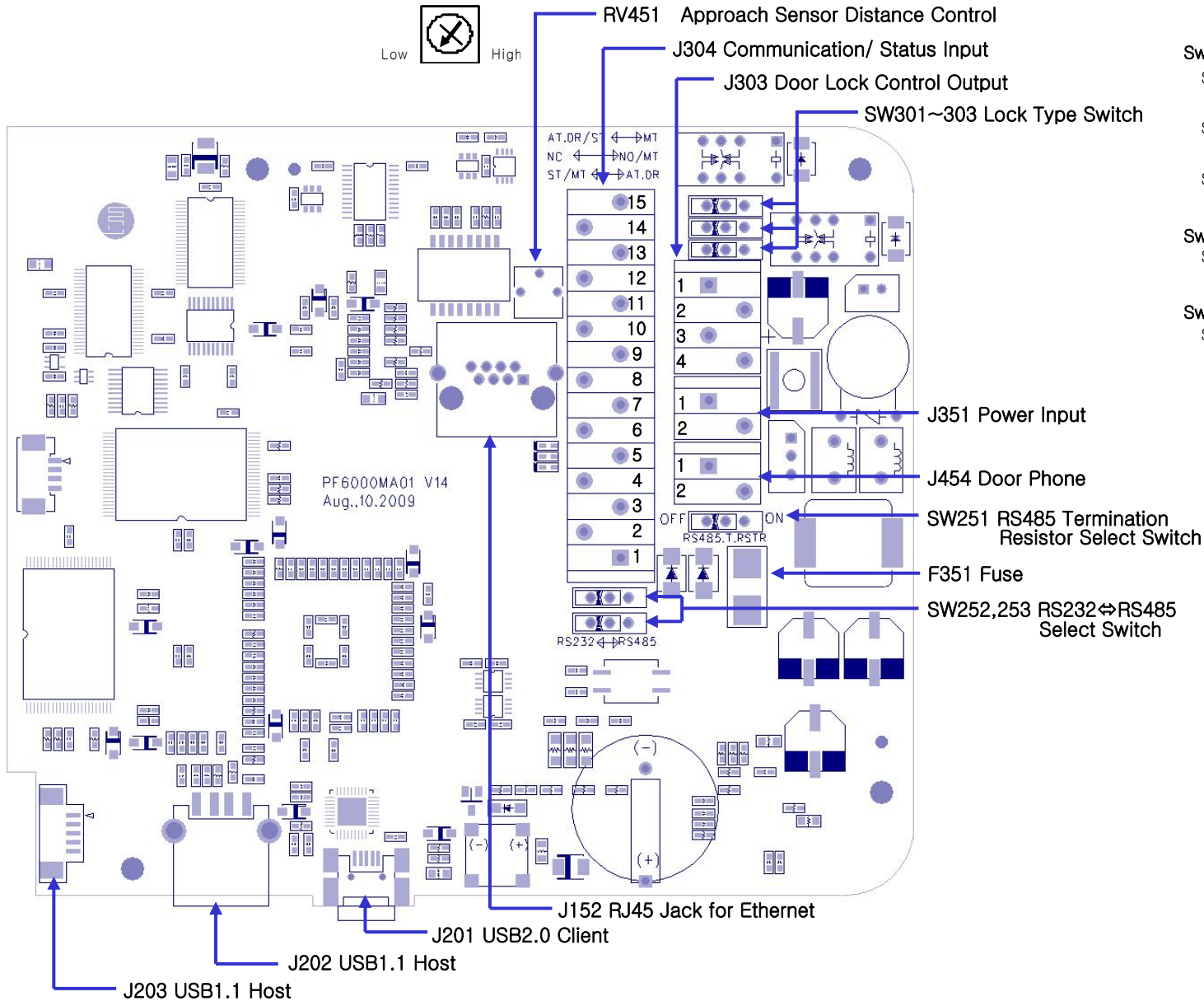


\*\* Insert the Power Cable to VIN/PG Terminal Block  
in right color matching as the picture

# 2. Connecting Ethernet & Power Cable



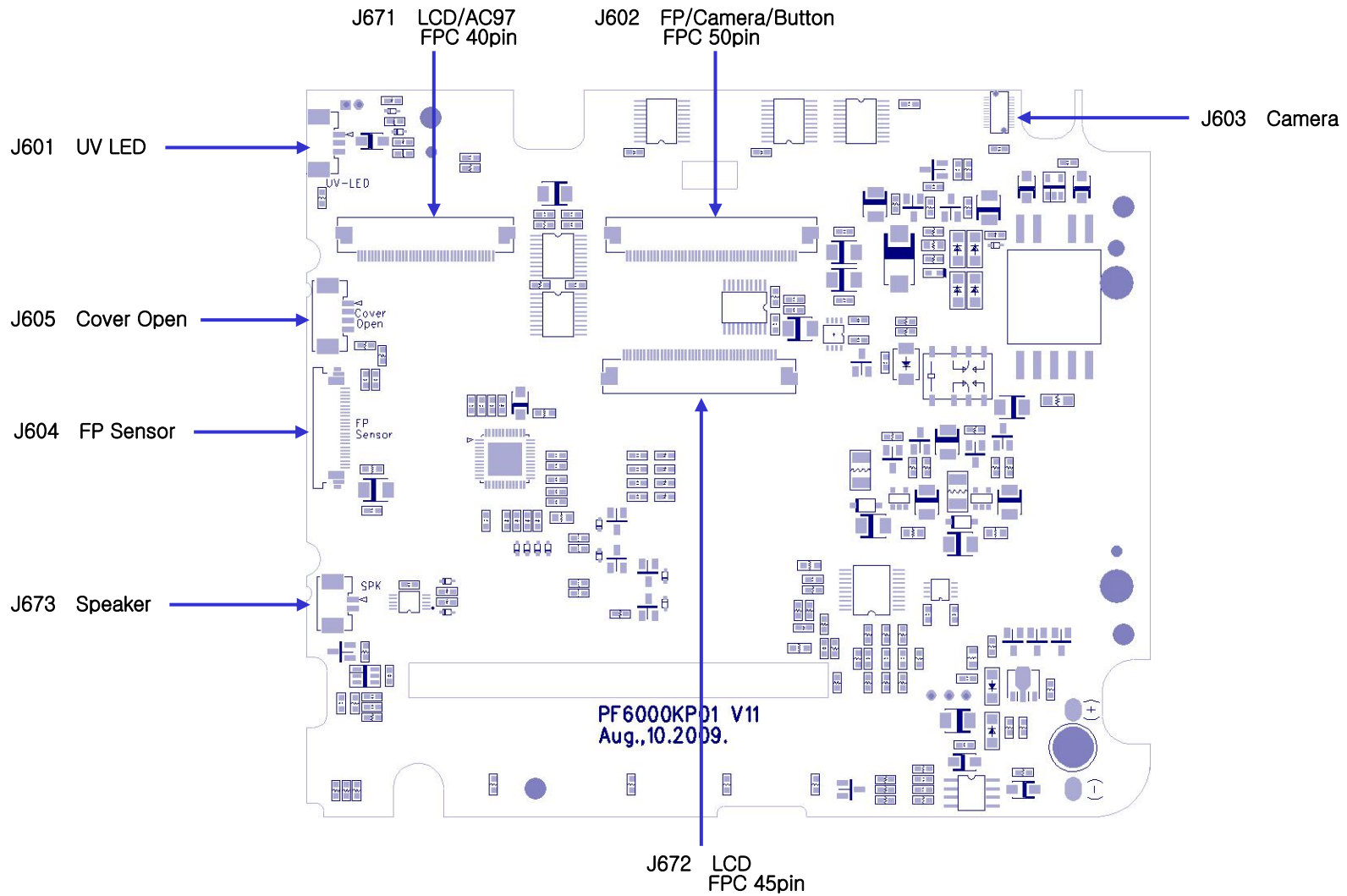
# 3. Main Board Feature



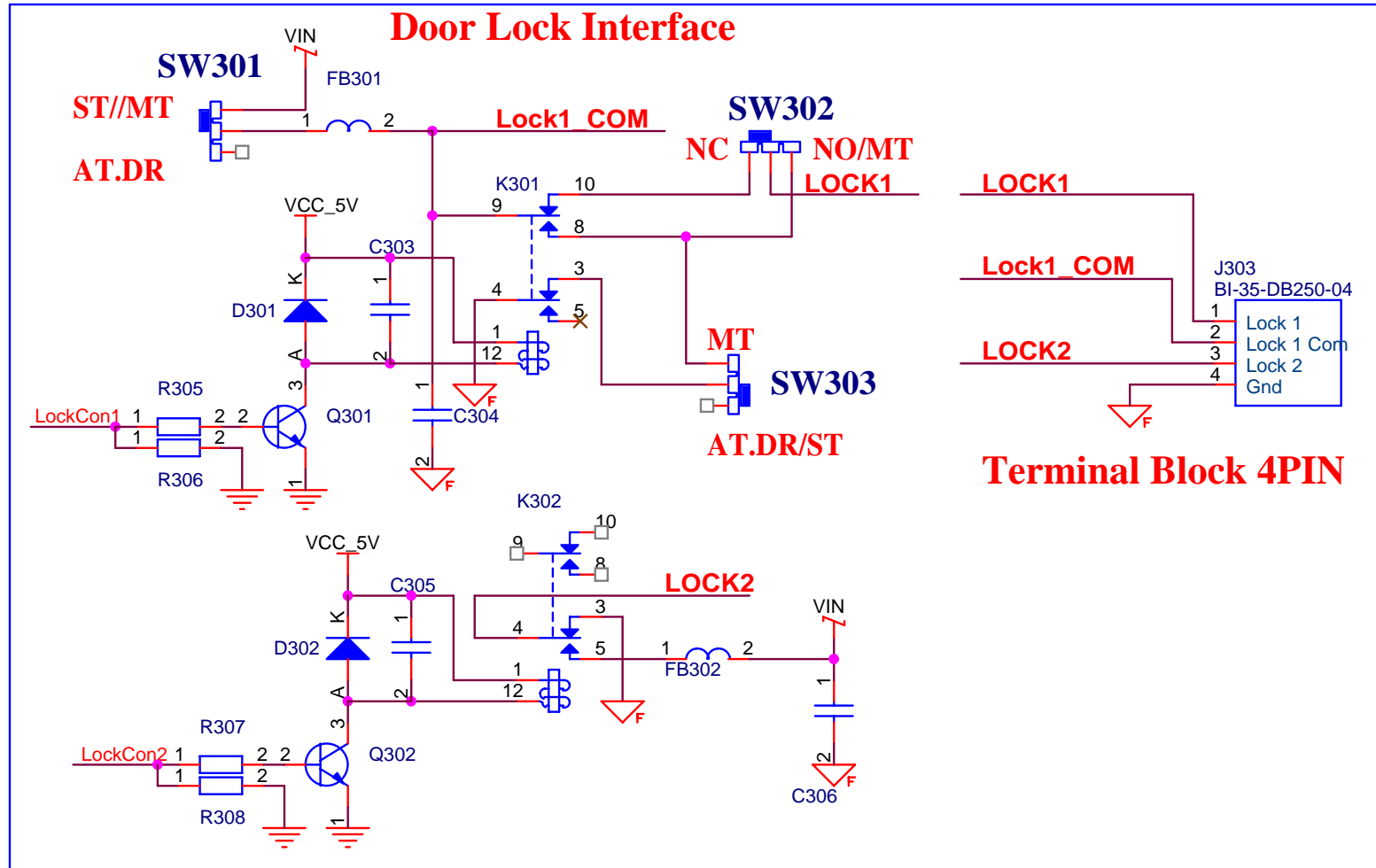
- Switch Setting I [ Lock Type Selection ]**  
 SW301 : ST/M [ Strike/Motor/Dead-bolt Lock ]  
 A/D [ Auto Door Selection ]  
 SW302 : NO/MT [ Normal Open Relay Contact ]  
 NC [ Normal Close Relay Contact ]  
 SW303 : ST/AT.DR [ Strike, Auto Door, Dead bolt ]  
 MT [ Motor Lock Selection ]
- Switch Setting II [ RS485 T\_Resistor Selection ]**  
 SW251 : ON [ 120ohm termination resistor ]  
 OFF [ Open the termination resistor ]
- Switch Setting III [ RS232 $\leftrightarrow$ RS485 Selection ]**  
 SW252,253 : RS232 [ J304 Pin 6&7 Enabled ]  
 RS485 [ J306 Pin 8&9 Enabled ]

- J303 Door Lock Control Output**  
 1 [ L1 ] : Lock Output 1  
 2 [ LC ] : Lock COM for Output 1  
 3 [ L2 ] : Lock Output 2  
 4 [ G ] : Ground for Lock Control
- J304 communication/ Status Input**  
 1 [ IO ] : Inside Open  
 2 [ M0 ] : Door Monitor 0  
 3 [ M1 ] : Door Monitor 1  
 4 [ M2 ] : Door Monitor 2  
 5 [ G ] : Ground [ Door Status ]  
 6 [ R2T ] : RS232 TXD Output  
 7 [ R2R ] : RS232 RXD Input  
 8 [ R4A ] : RS485 A  
 9 [ R4B ] : RS485 B  
 10 [ G ] : Ground [ Serial com Port ]  
 11 [ W0 ] : Wiegand Input 0  
 12 [ W1 ] : Wiegand Input 1  
 13 [ W00 ] : Wiegand Output 0  
 14 [ W01 ] : Wiegand Output 1  
 15 [ G ] : Ground [ Wiegand interface ]
- J351 Power Input**  
 1 [ VIN ] : DC Power Input  
 2 [ PG ] : Ground for DC Power
- J454 Door Phone Interface**  
 1 [ DPV ] : Door Phone Voltage IN  
 2 [ DPS ] : Door Phone Signal

# 4. Keypad Board Feature



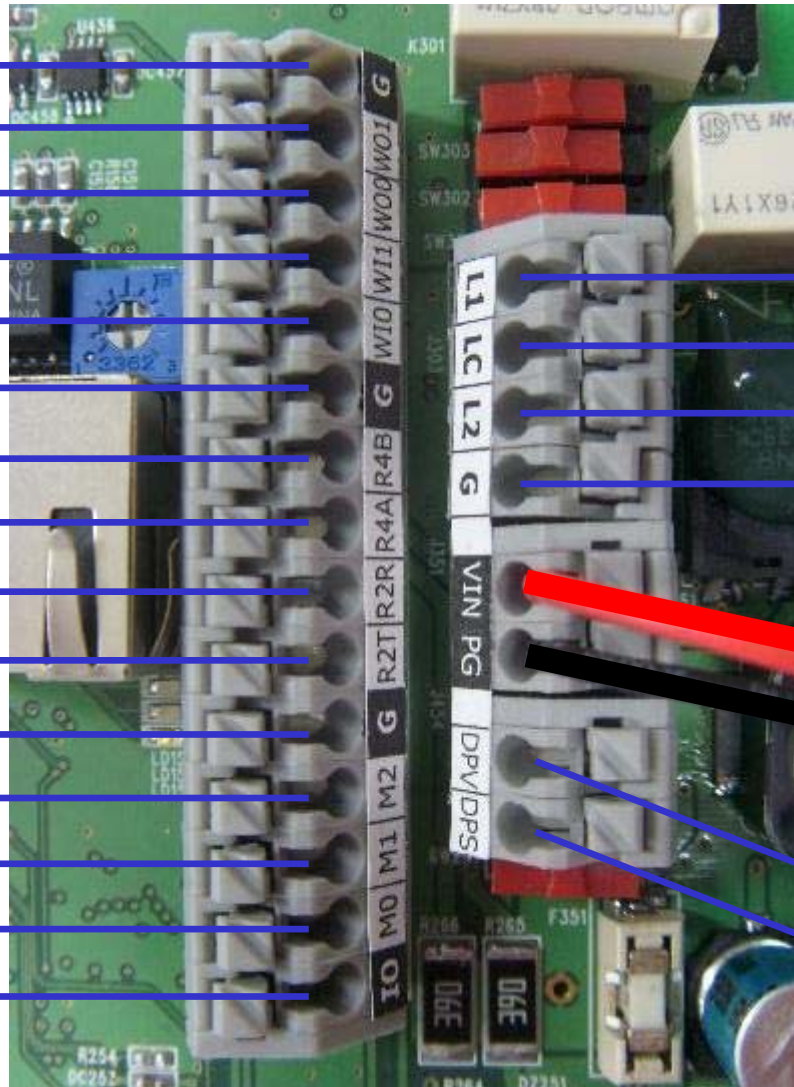
# 5. Schematic for Door Lock Interface



# 6. Connection of Wires to terminal blocks

## J304 communication/ Status Input

- 15 [ G ] : Ground [ Wiegand ]
- 14 [ WO1 ] : Wiegand Output 1
- 13 [ WO0 ] : Wiegand Output 0
- 12 [ WI1 ] : Wiegand Input 1
- 11 [ WI0 ] : Wiegand Input 0
- 10 [ G ] : Ground [ Serial Port ]
- 9 [ R4B ] : RS485 B
- 8 [ R4A ] : RS485 A
- 7 [ R2R ] : RS232 RXD Input
- 6 [ R2T ] : RS232 TXD Output
- 5 [ G ] : Ground [ Input ]
- 4 [ M2 ] : Door Monitor 2
- 3 [ M1 ] : Door Monitor 1
- 2 [ M0 ] : Door Monitor 0
- 1 [ IO ] : Inside Open



## J303 Door Lock Control Output

- 1 [ L1 ] : Lock Output 1
- 2 [ LC ] : Lock COM for Output 1
- 3 [ L2 ] : Lock Output 2
- 4 [ G ] : Ground for Lock Control

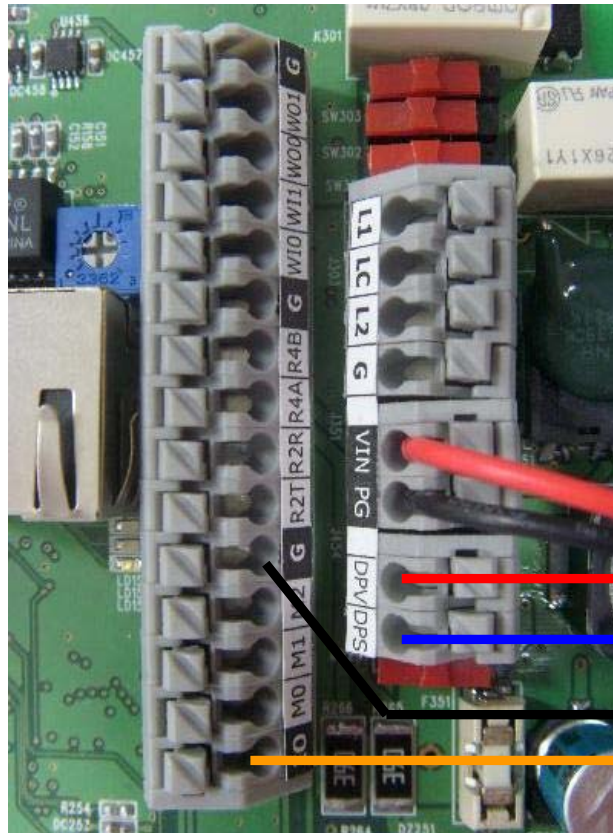
## J351 Power Input

- 1 [ VIN ] : DC Power Input
- 2 [ PG ] : Ground for DC Power

## J454 Door Phone Interface

- 1 [ DPV ] : Door Phone Voltage IN
- 2 [ DPS ] : Door Phone Signal

# 7. Connection of Door Phone



pin1 VIN (RE)

pin2 Signal (Blue)

pin5 Ground (BK)

pin1 Inside Open (OR)

\*\* Inside Open Switch Connection

Door  
Phone

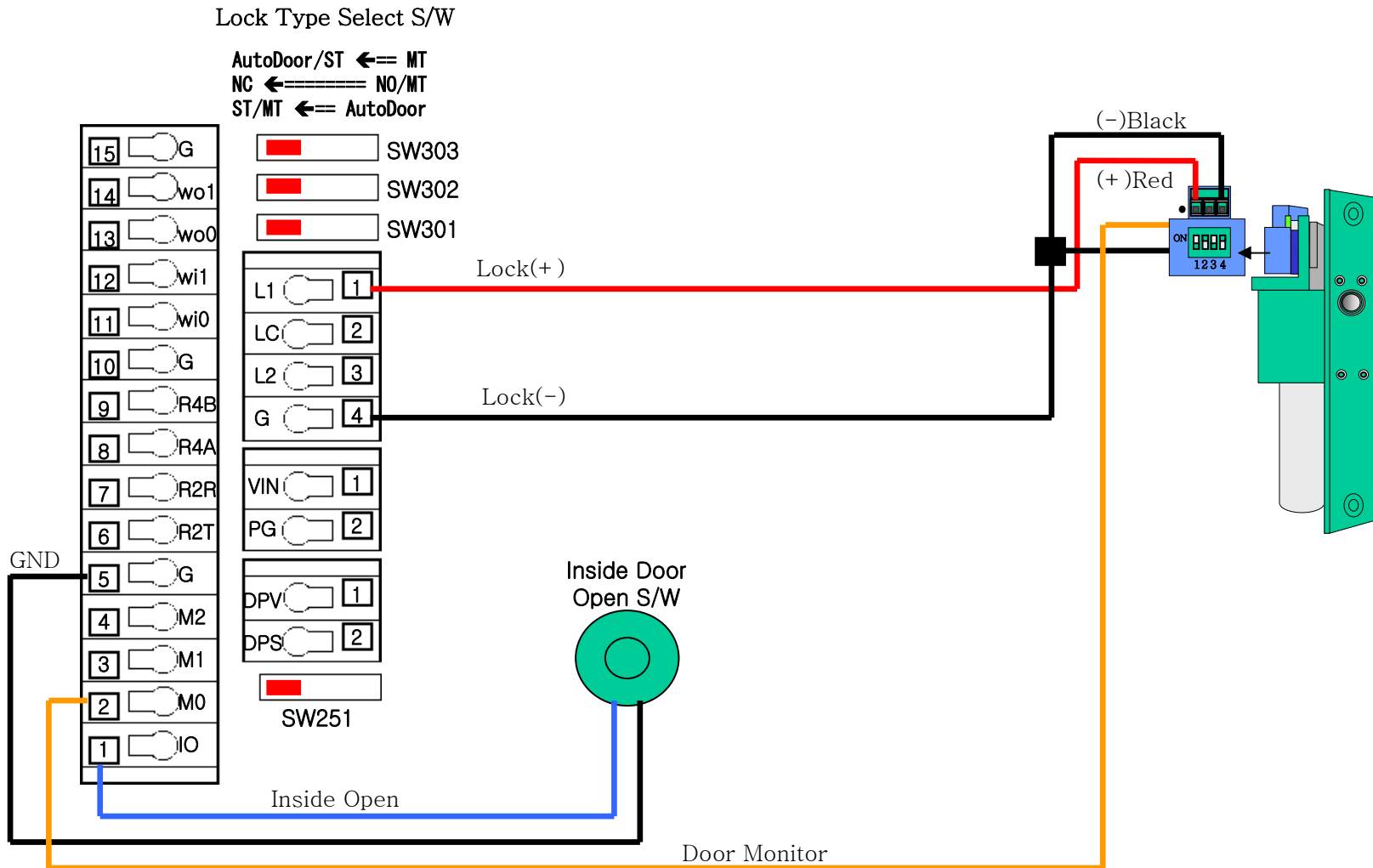


- ※ The Installation distance is Max 30M(100feet) between AC-6000 and Door Phone.  
If you want to call the door phone, please use the “Call” button.
- ※ The Color is not important...



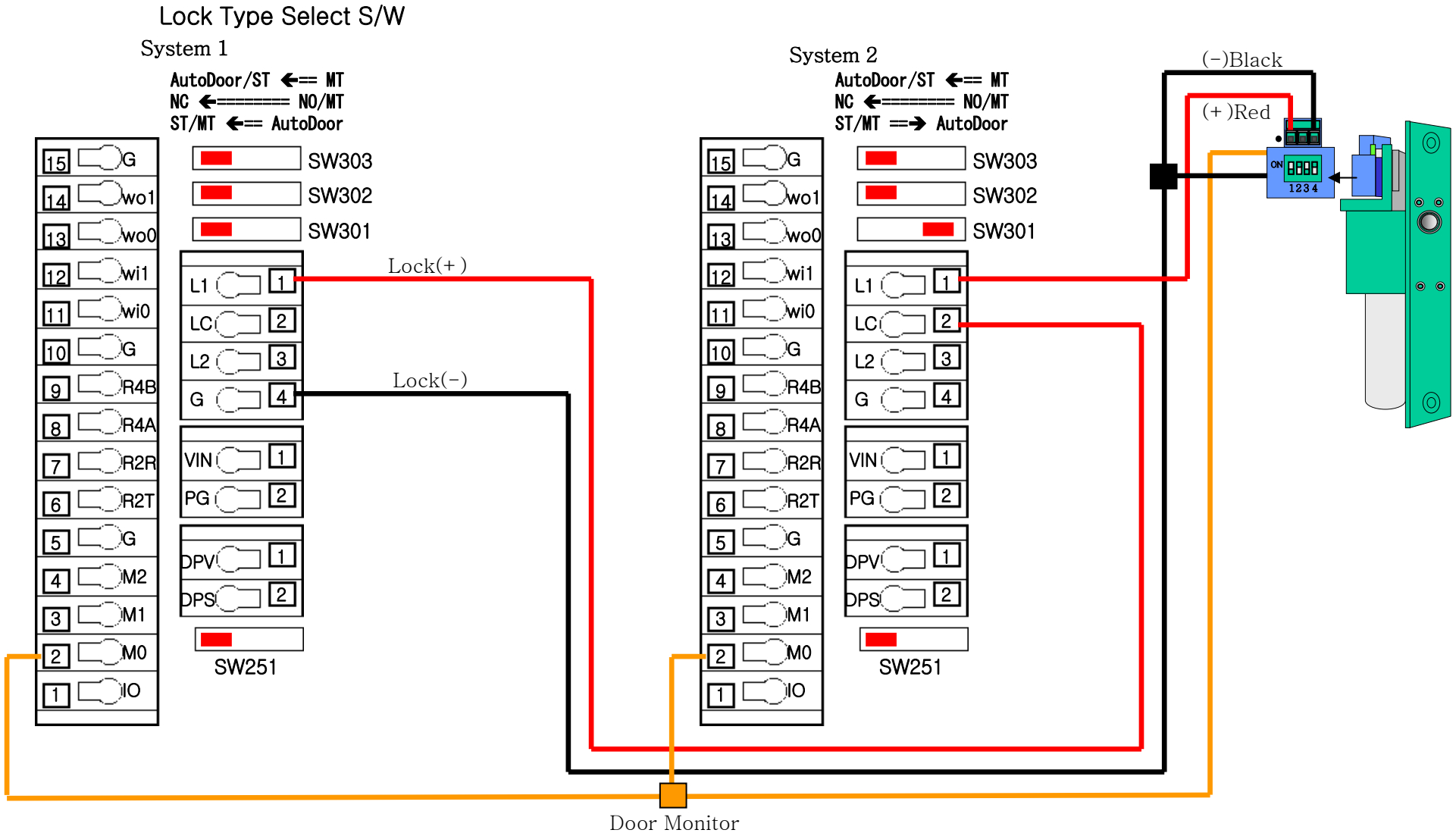
# 8. Connecting Dead-Bolt Type Door Lock (Fail Safe)

## 8.1. Connect with One System/ One Lock



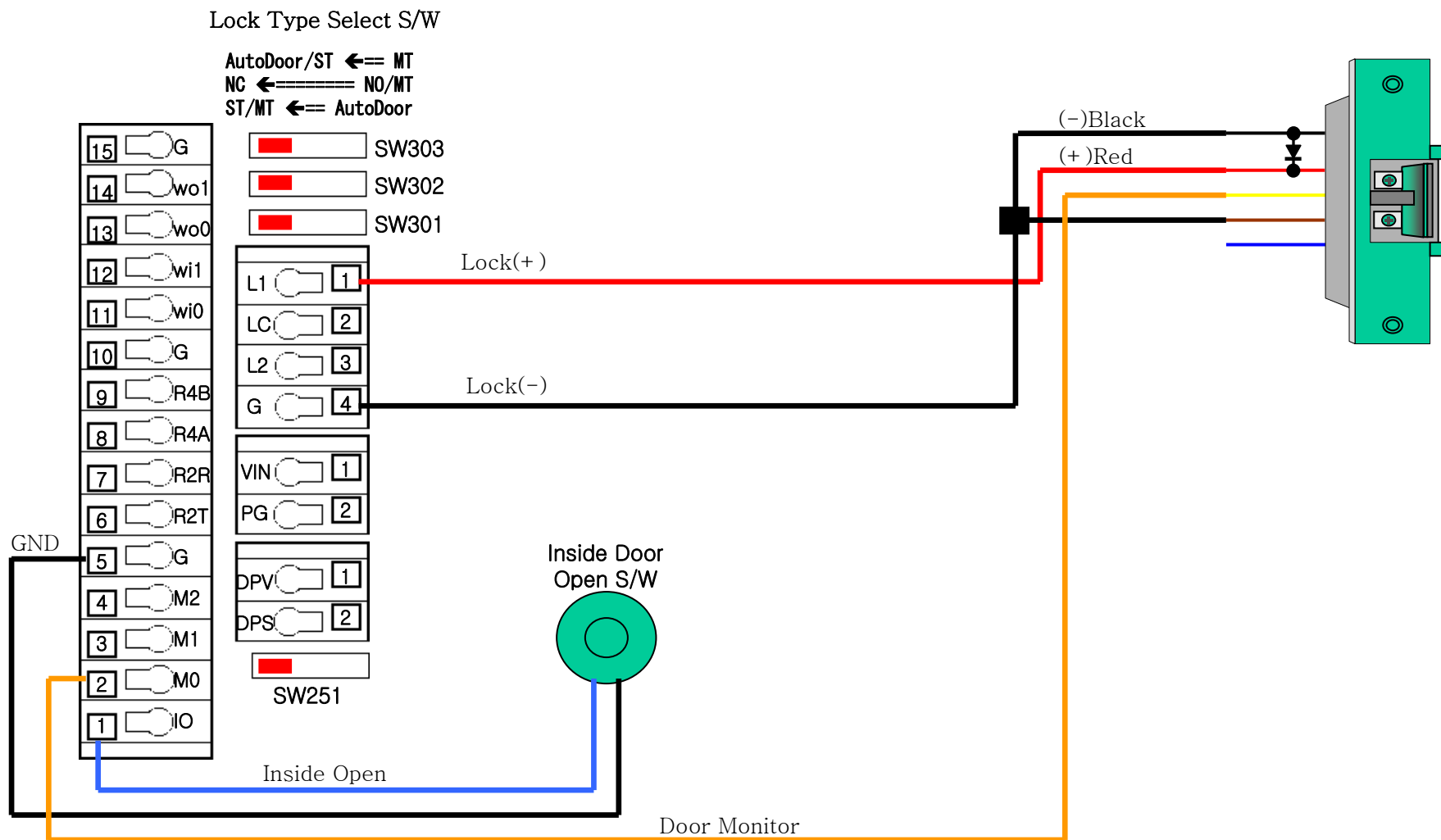
# 8. Connecting Dead-Bolt Type Door Lock (Fail Safe)

## 8.2. Connect with Two Systems/ One Lock



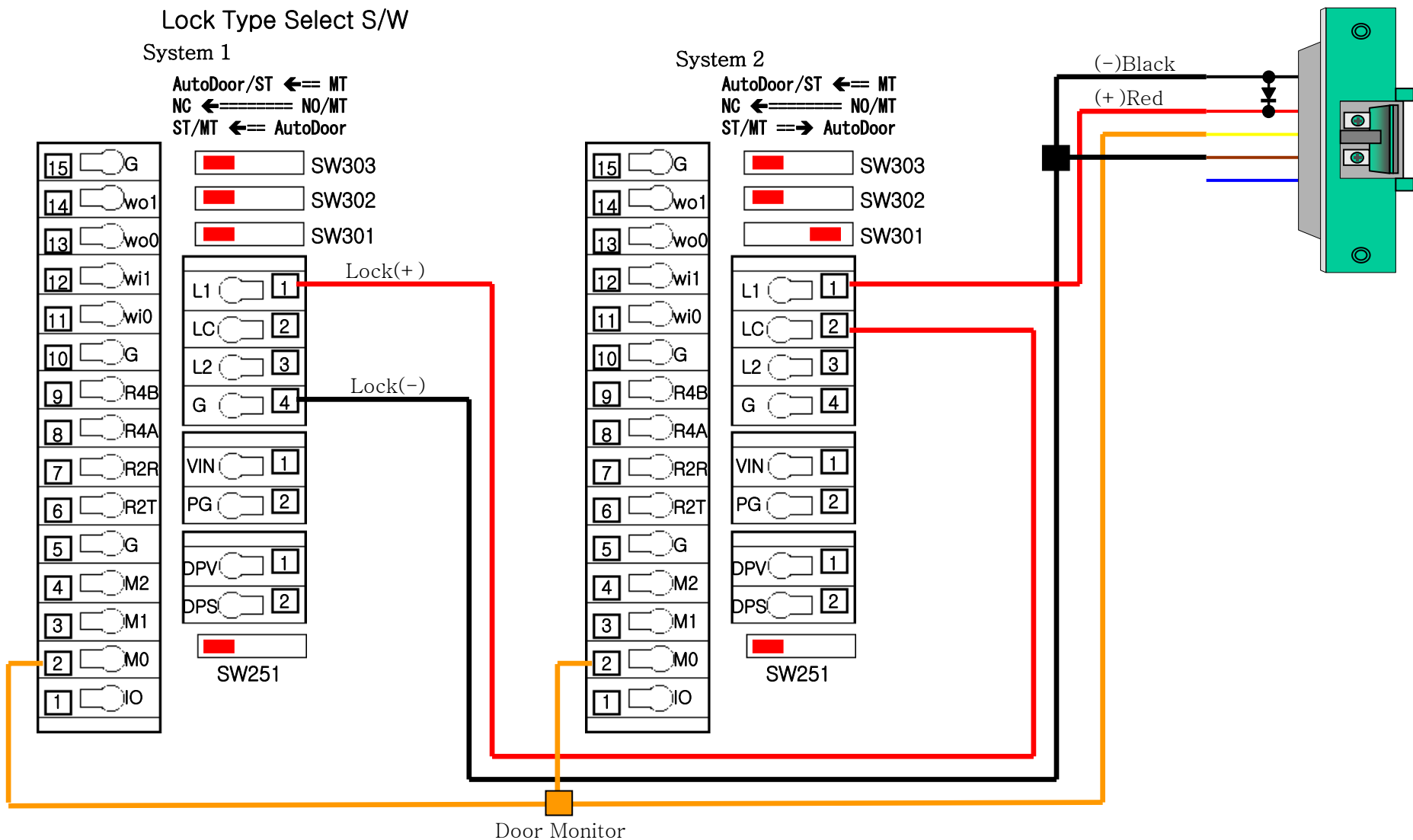
# 9. Connecting Strike Type Door Lock (Fail Safe)

## 9.1. Connect with One system/ One Lock



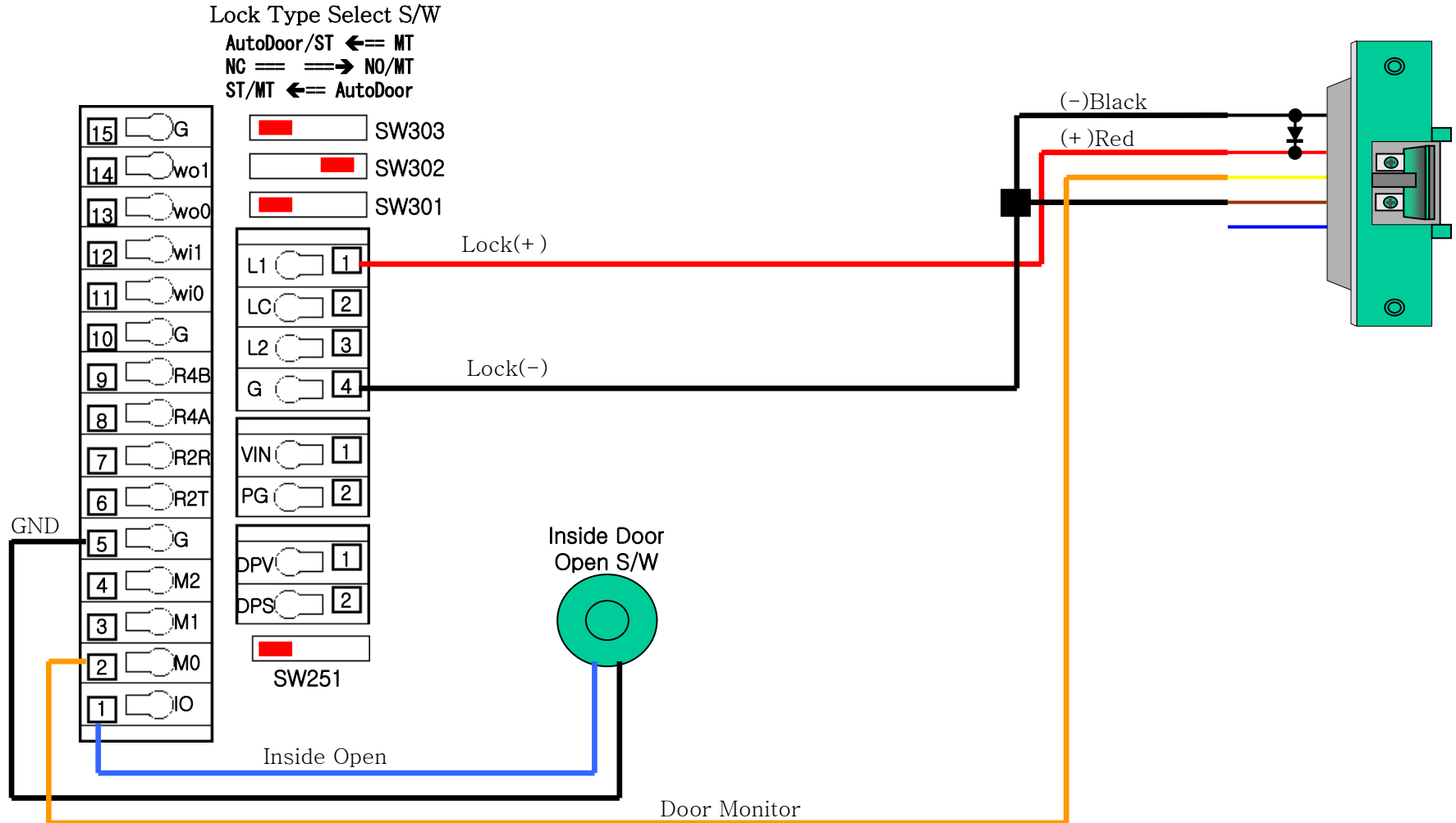
# 9. Connecting Strike Type Door Lock (Fail Safe)

## 9.2. Connect with Two systems/ One Lock



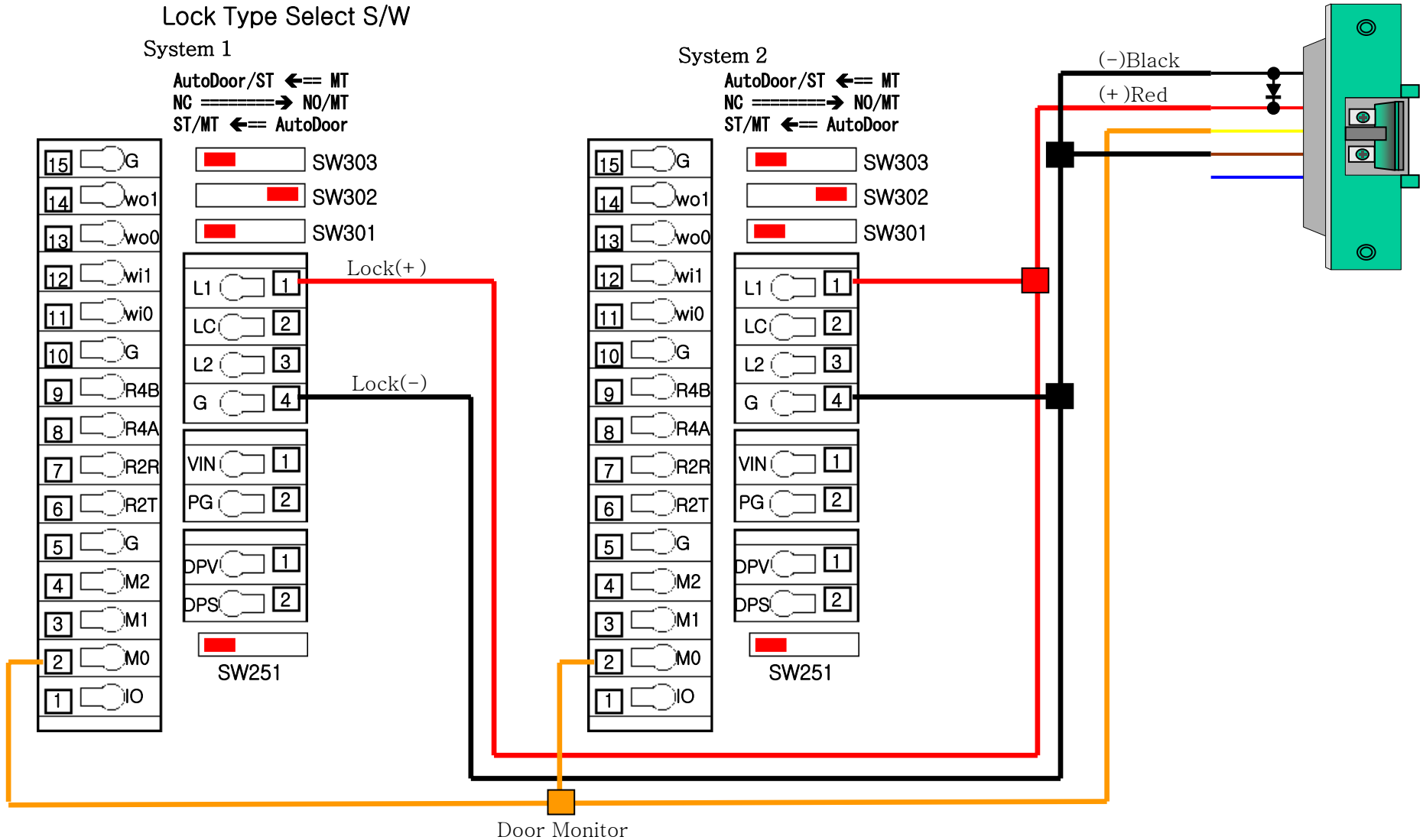
# 10. Connecting Strike Type Door Lock (Fail Secure)

## 10.1. Connect with One system/ One Lock



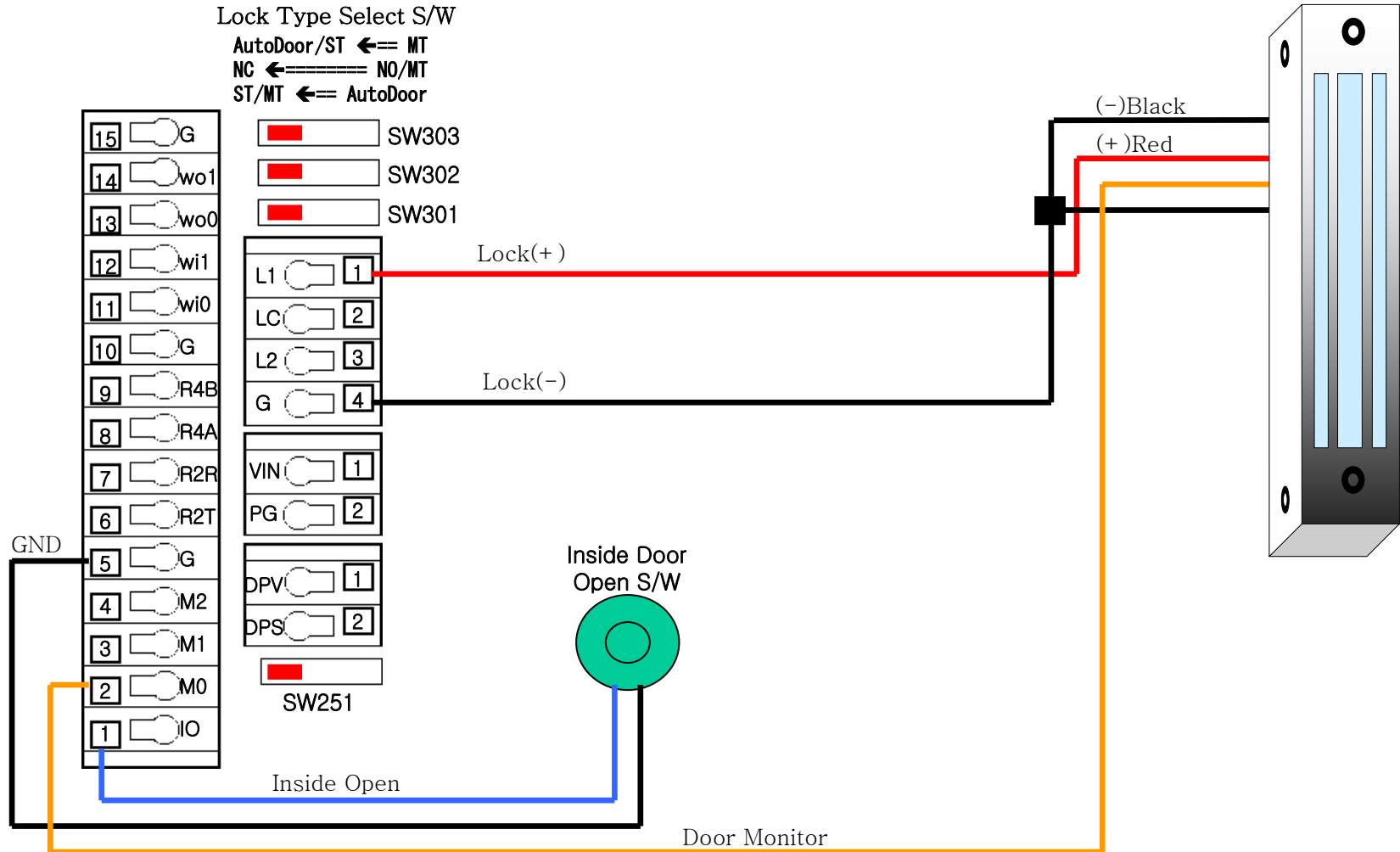
# 10. Connecting Strike Type Door Lock (Fail Secure)

## 10.2. Connect with Two systems/ One Lock



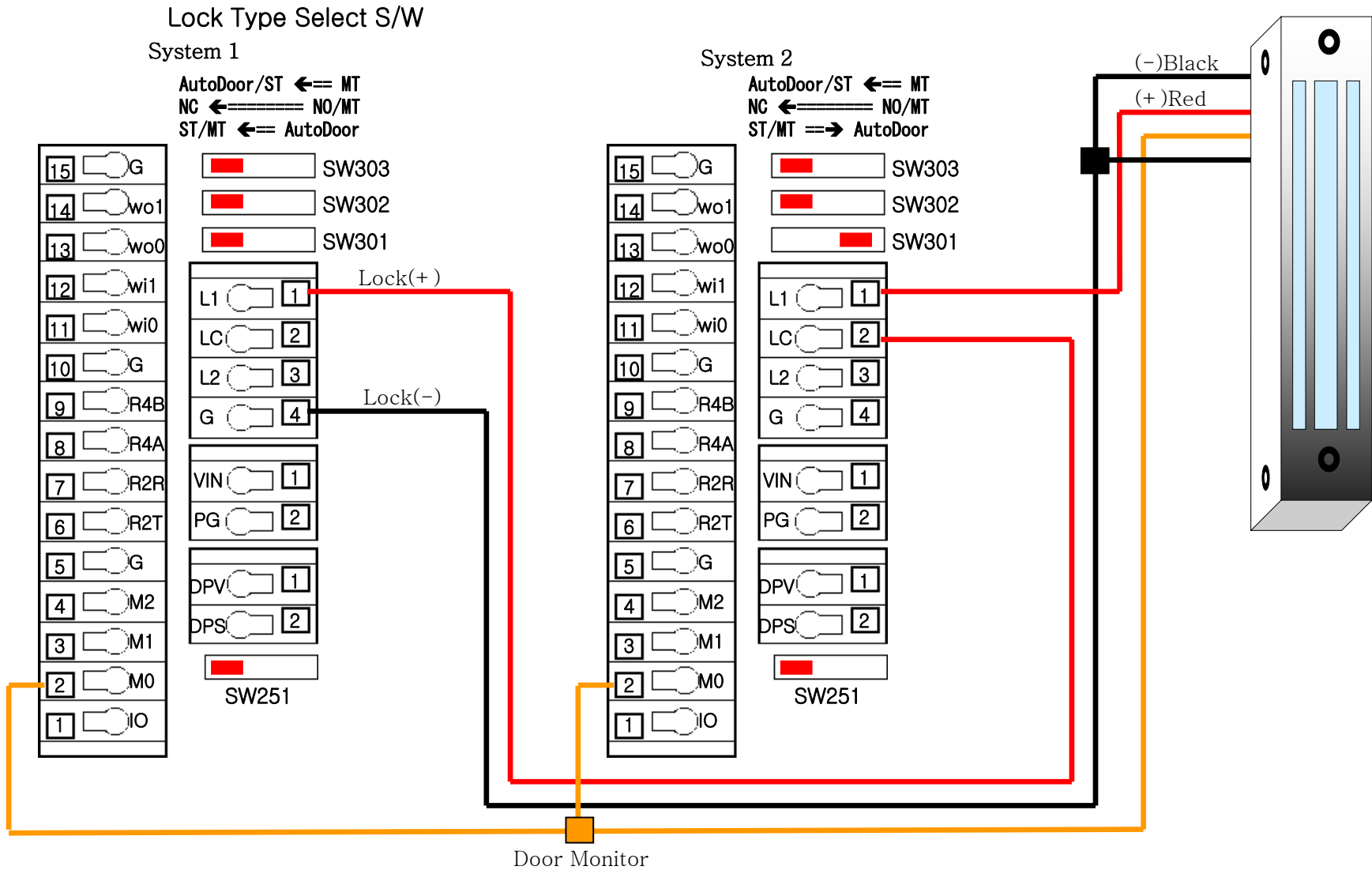
# 11. Connecting EM Type Door Lock (Fail Safe)

## 11.1. Connect with One system/ One Lock



# 11. Connecting EM Type Door Lock(Fail Safe)

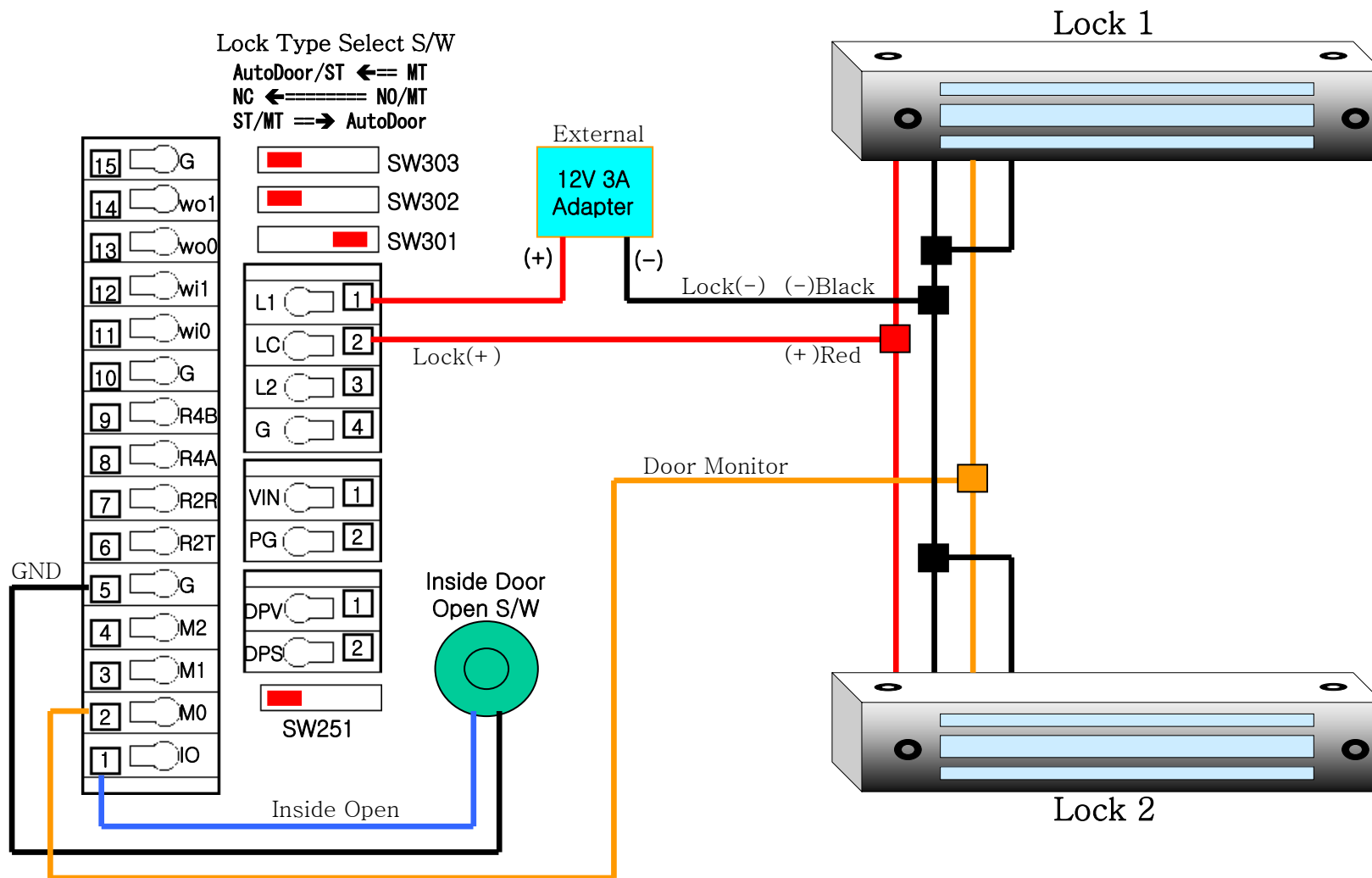
## 11.2. Connect with Two System/ One Lock





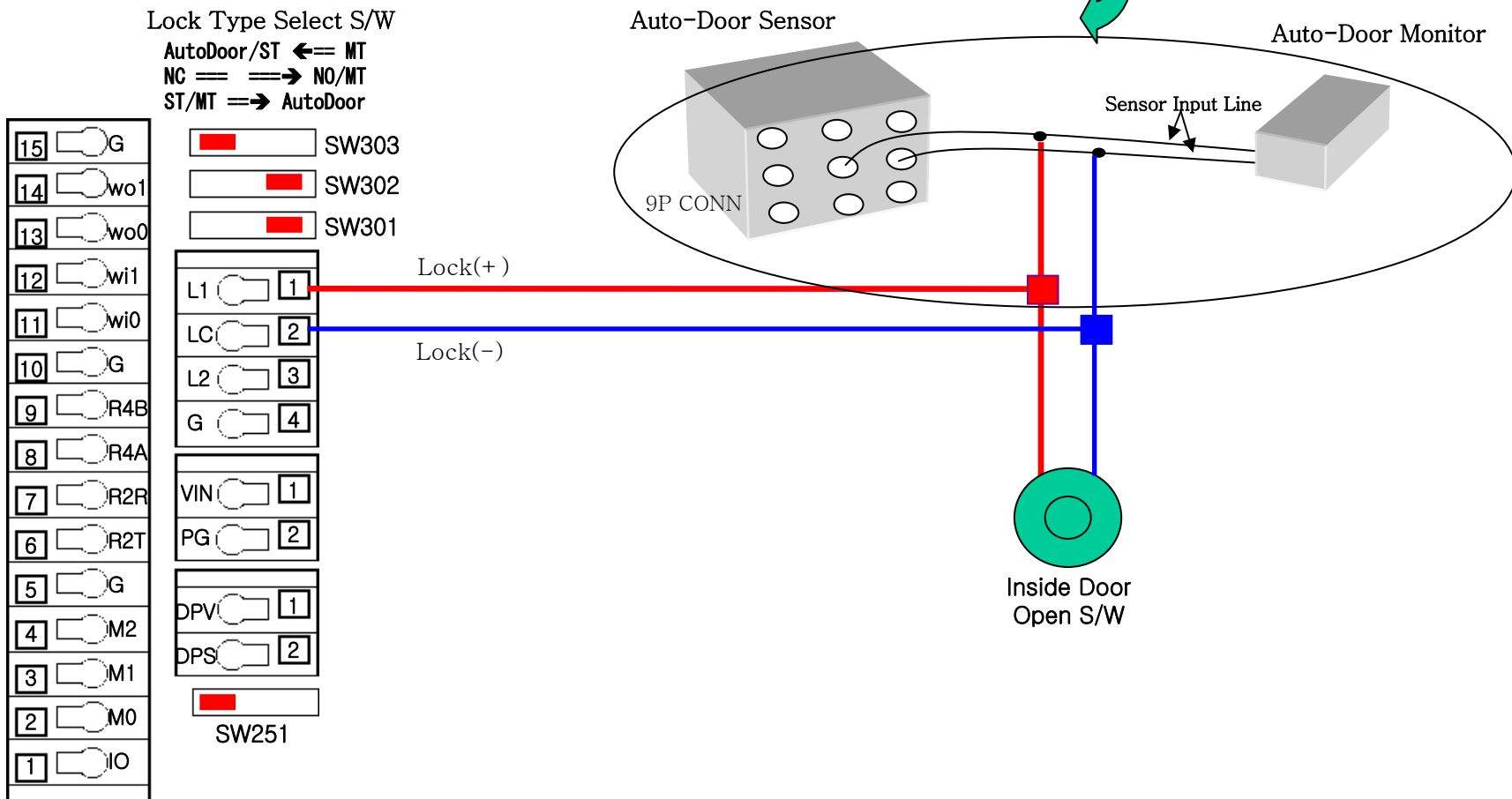
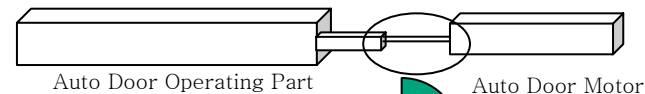
# 11. Connecting EM Type Door Lock (Fail Safe)

11.3. Connect with One system/ Two Locks \*\* Use external DC Power adapter



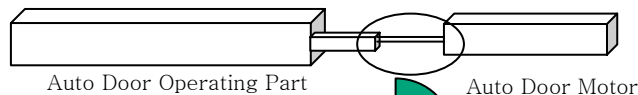
# 12. Connecting Auto-Door (Contact Control)

## 12.1. Connect with One system/ One Door



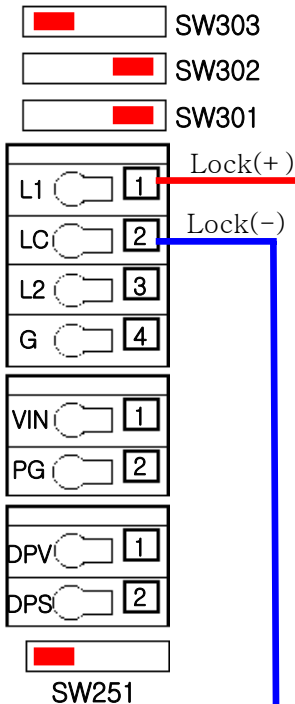
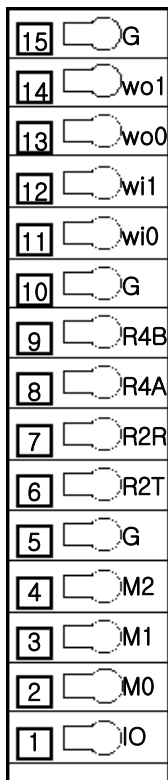
# 12. Connecting Auto-Door (Contact Control)

## 12.2. Connect with Two systems/ One Door



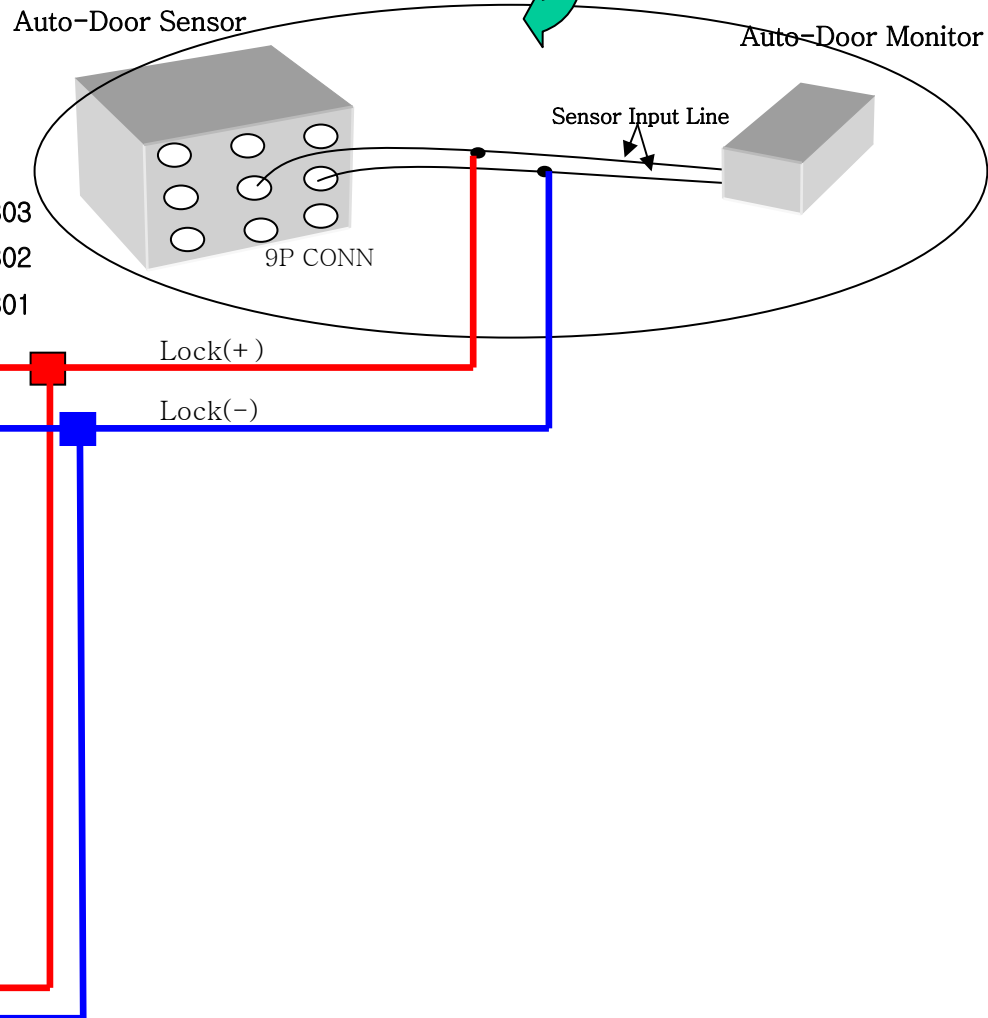
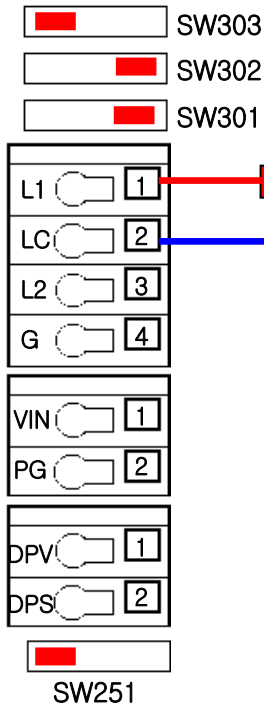
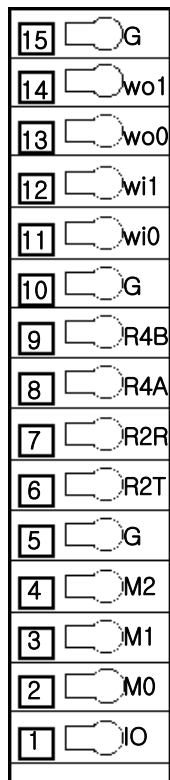
Lock Type Select S/W  
System 1

AutoDoor/ST ← MT  
NC → NO/MT  
ST/MT ⇒ AutoDoor

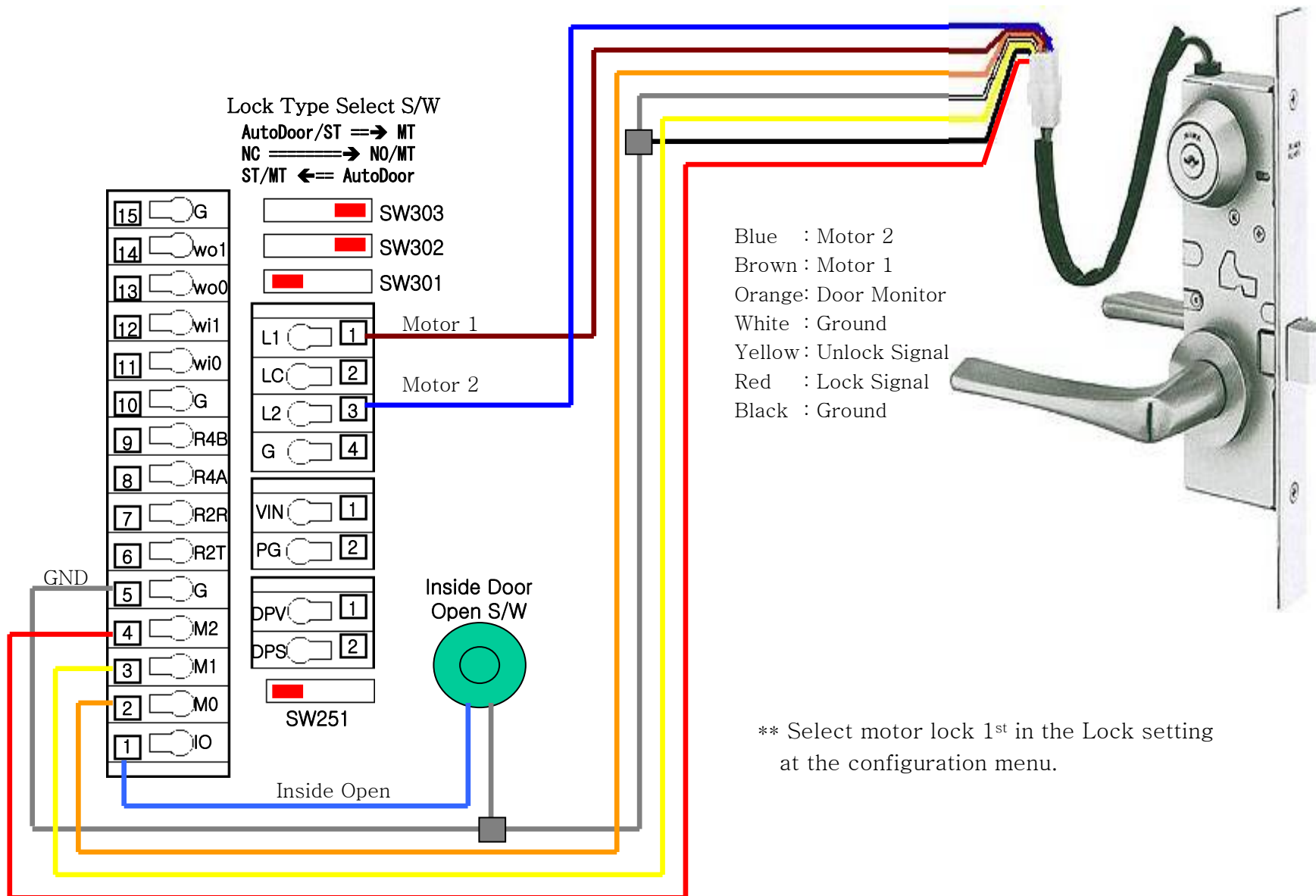


System 2

AutoDoor/ST ← MT  
NC → NO/MT  
ST/MT ⇒ AutoDoor

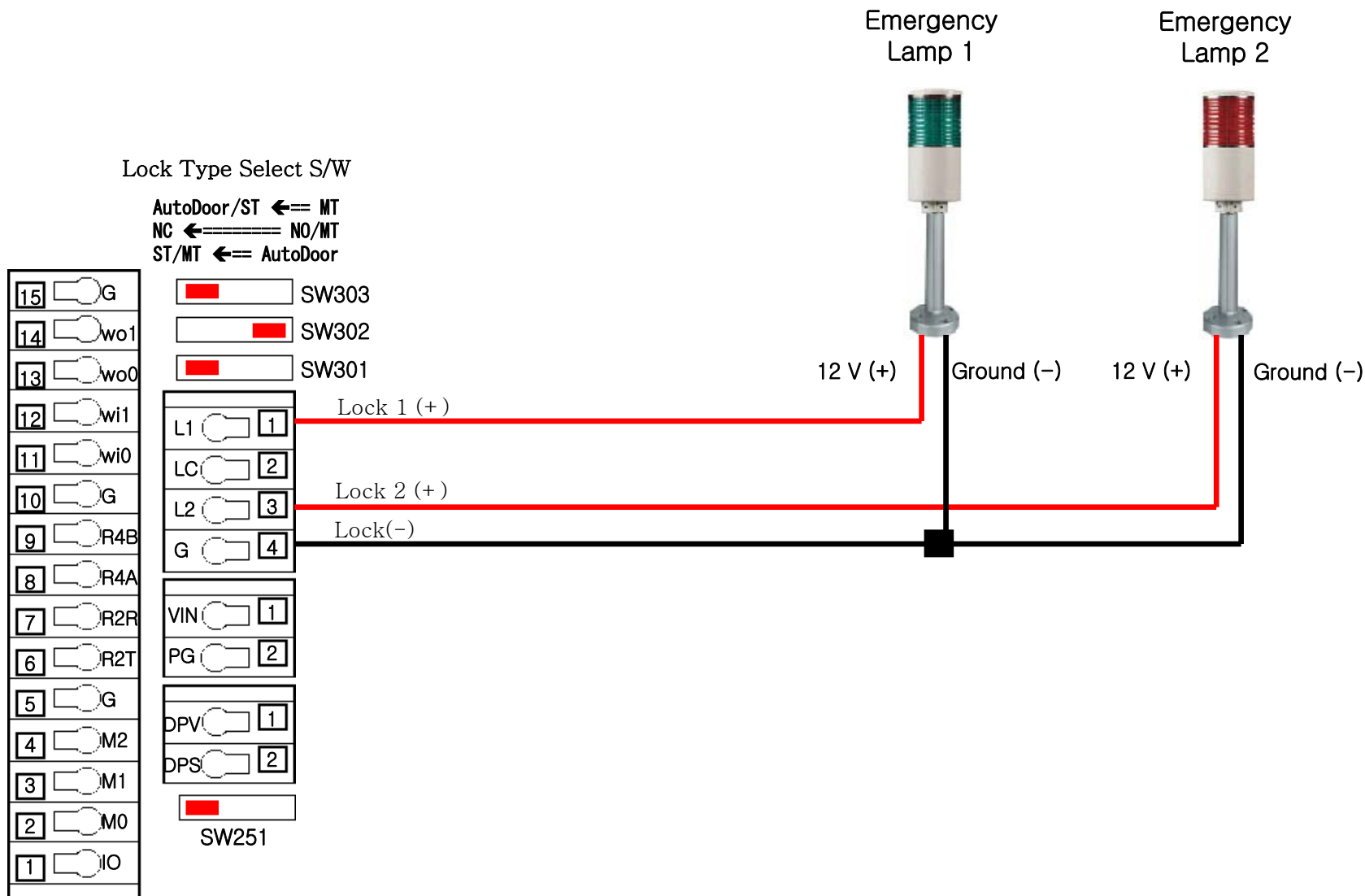


# 13. Connecting Motor Lock

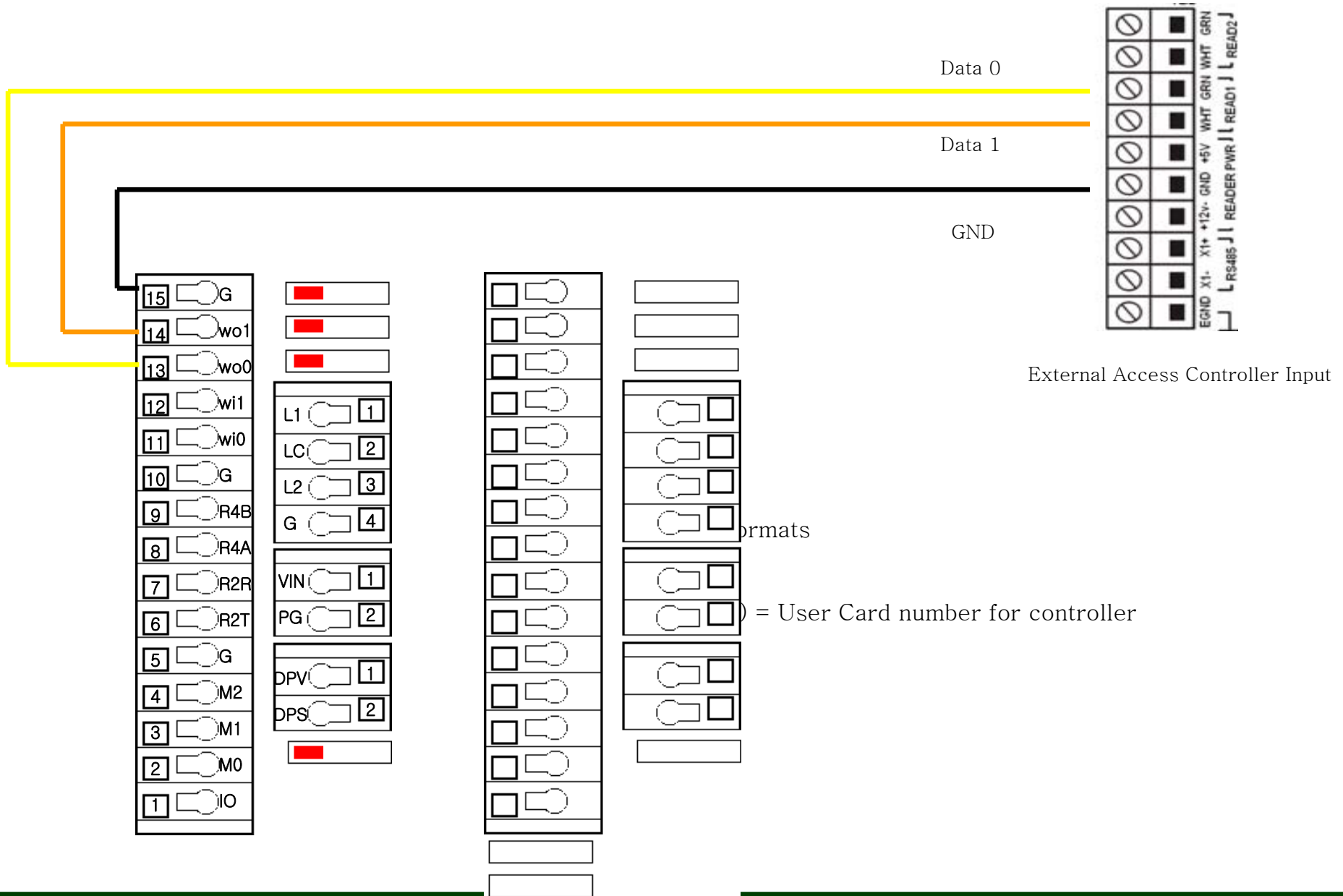


\*\* Select motor lock 1<sup>st</sup> in the Lock setting at the configuration menu.

# 14. Connecting 2 Emergency Lamps



# 15. Connecting Wiegand Output to External Controller

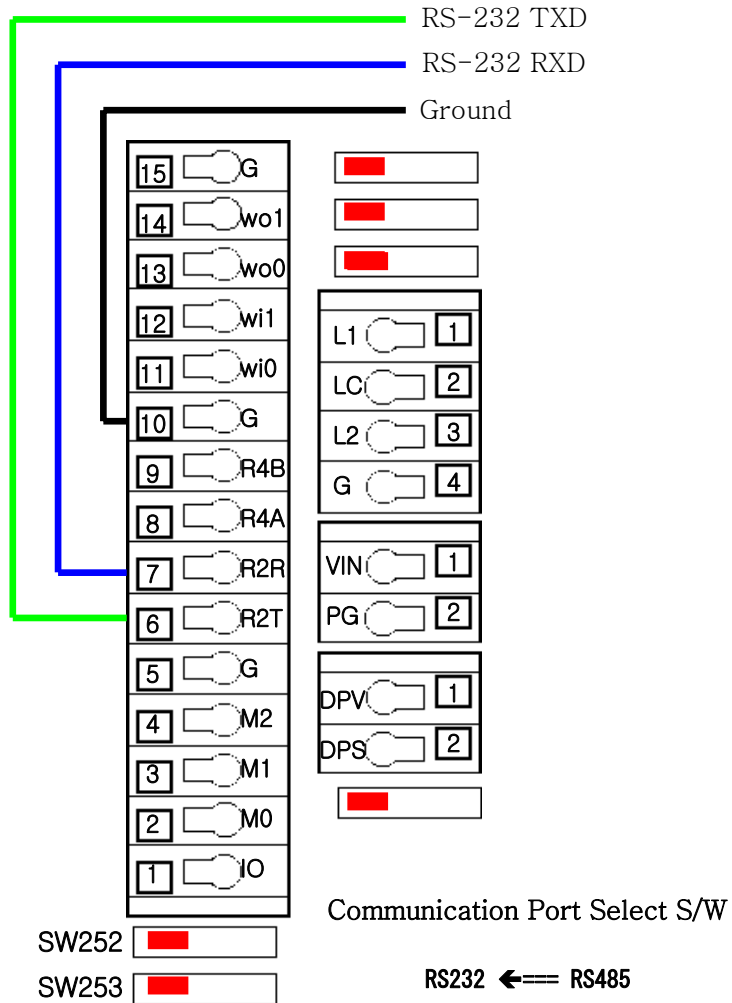


External Access Controller Input

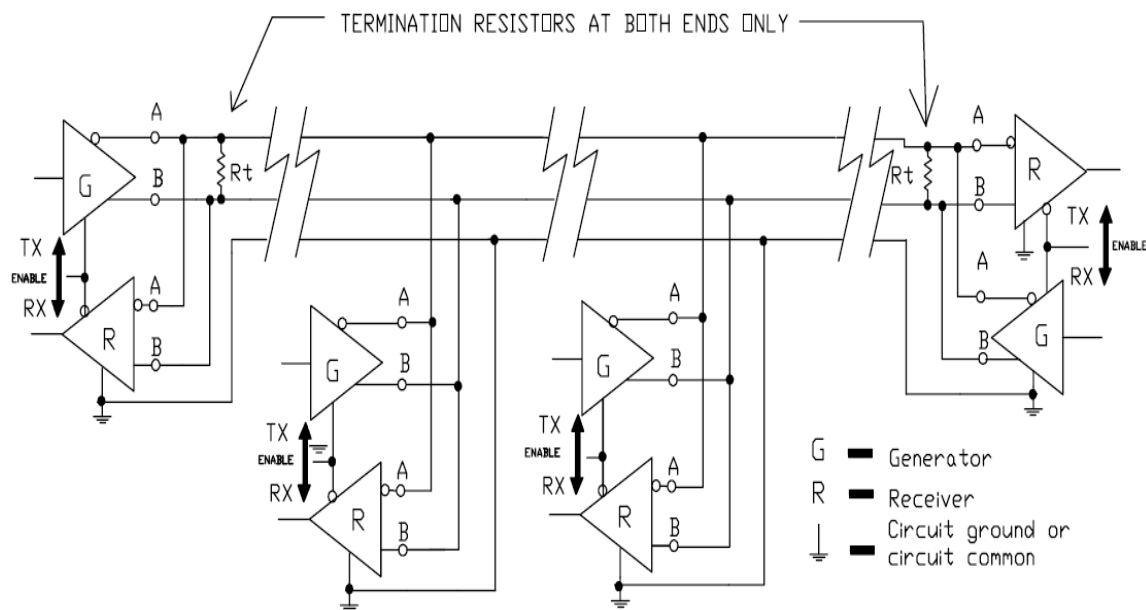
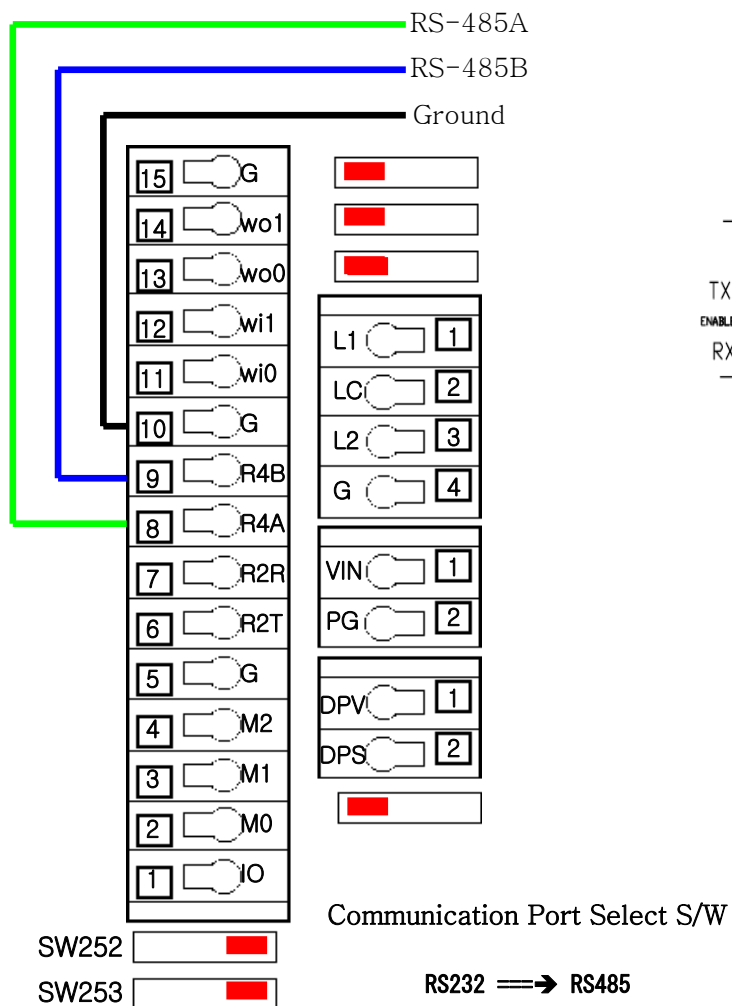
formats

) = User Card number for controller

## 16.1 RS-232 Interface



## 16.2 RS-485 Interface



RS-485 TWO WIRE MULTIDROP NETWORK