ROOM CONTROL UNIT
20 INPUTS 20 OUTPUTS WITH IP PORT

Product Diagrams V 1.1

Model: RCU-20R20Z-IP

Connect To N

Connect To L

MCB

O-OFF

I-ON

RCU-20R20Z

⚠ WARNING! HIGH VOLTAGE!

E1 E2

PRG

com 13 14 15 com 16 17 18   com 19 20 21 com 22 23 24

TIS-BUS
GND D- D+ +24V

To the TIS BUS Network ‹‹‹

Cat5e

2.5 mm Electric Cable

1.5 mm Electric Cable

1.5 mm Electric Cable

Cat5e connection
- GND(white-orange)&(white-brown)
- D-(white-green)&(white-blue)
- D+(blue-green)
- 24+V(brown-orange)

▲ **Figure 1: Lights Connection Diagram**

ROOM CONTROL UNIT
20 INPUTS 20 OUTPUTS WITH IP PORT
Model: RCU-20R20Z-IP

TIS

LOW
MEDIUM
HIGH

Connect To L

MCB

O-OFF
I-ON

TIS RCU-20R20Z   ⚠ WARNING! HIGH VOLTAGE!

1 2 3 4   5 6 7 8   9 10 11 12

E1   E2   PRG

com 13 14 15 com 16 17 18   com 19 20 21 com 22 23 24   TIS-BUS
                                                          GND D- D+ +24V

To the TIS BUS Network ◀◀◀

Cat5e

───── 2.5 mm Electric Cable
───── 1.5 mm Electric Cable
───── 1.5 mm Electric Cable

Cat5e connection
— GND(white-orange)&(white-brown)
— D-(white-green)&(white-blue)
— D+(blue-green)
— 24+V(brown-orange)
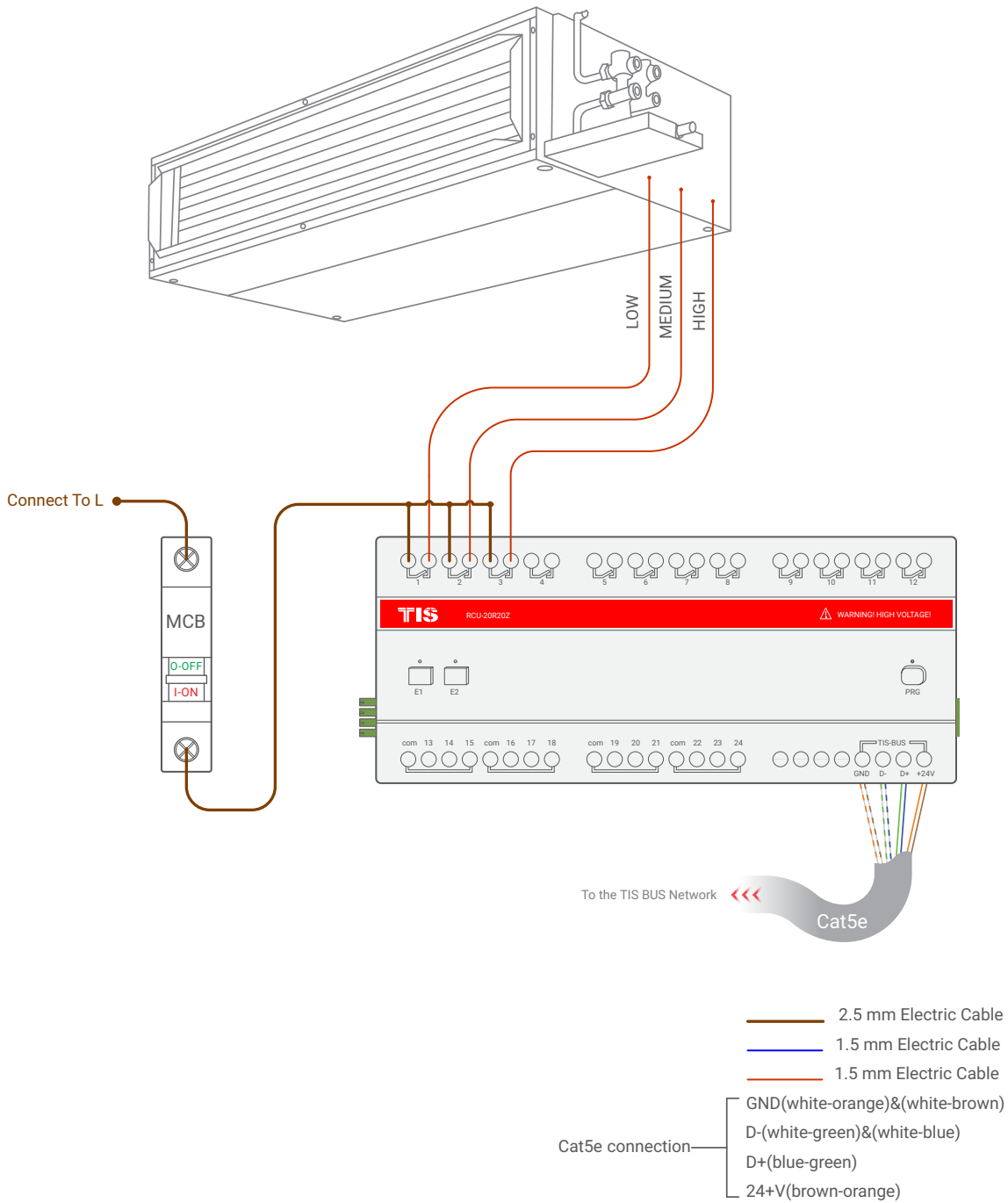
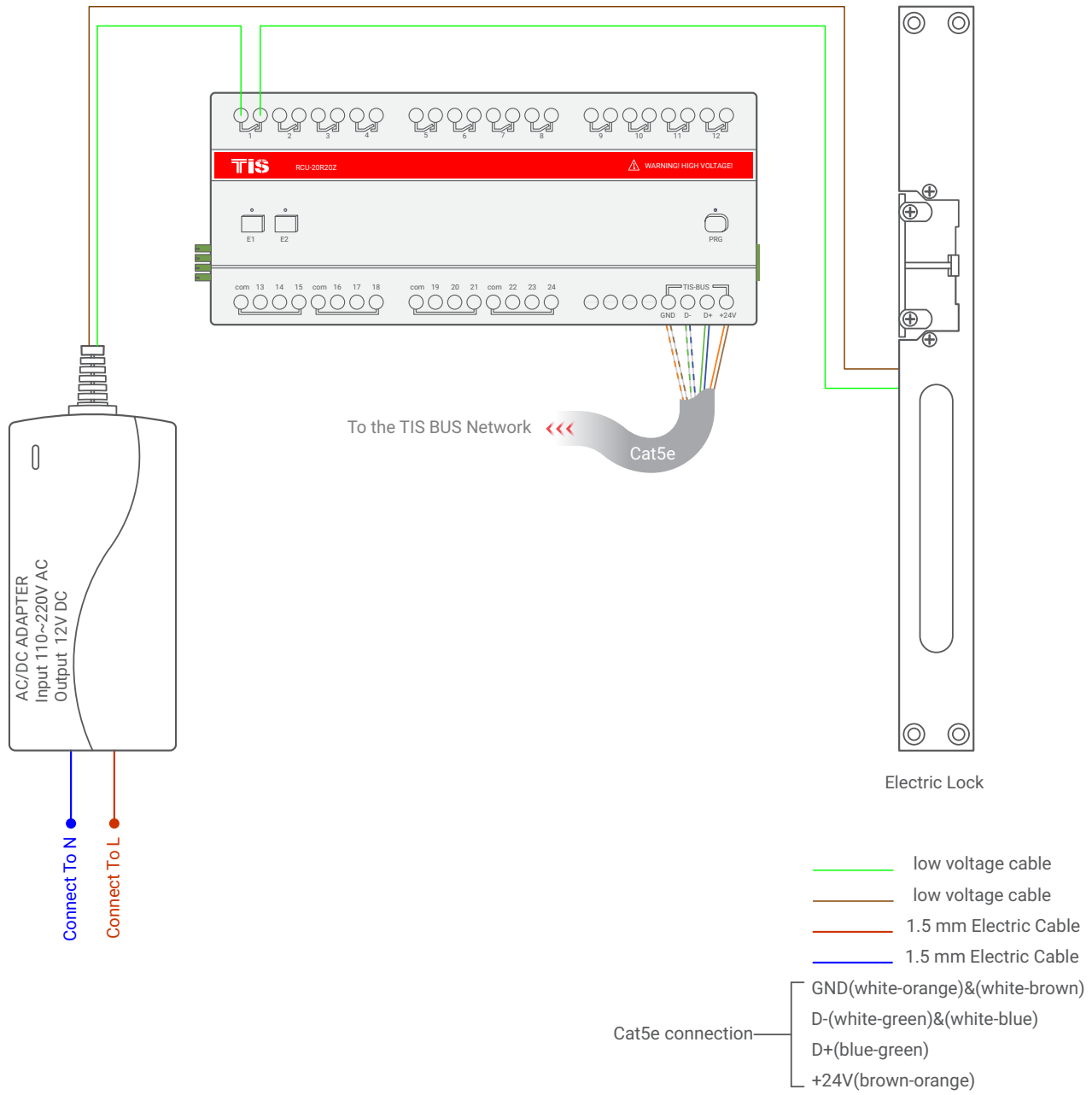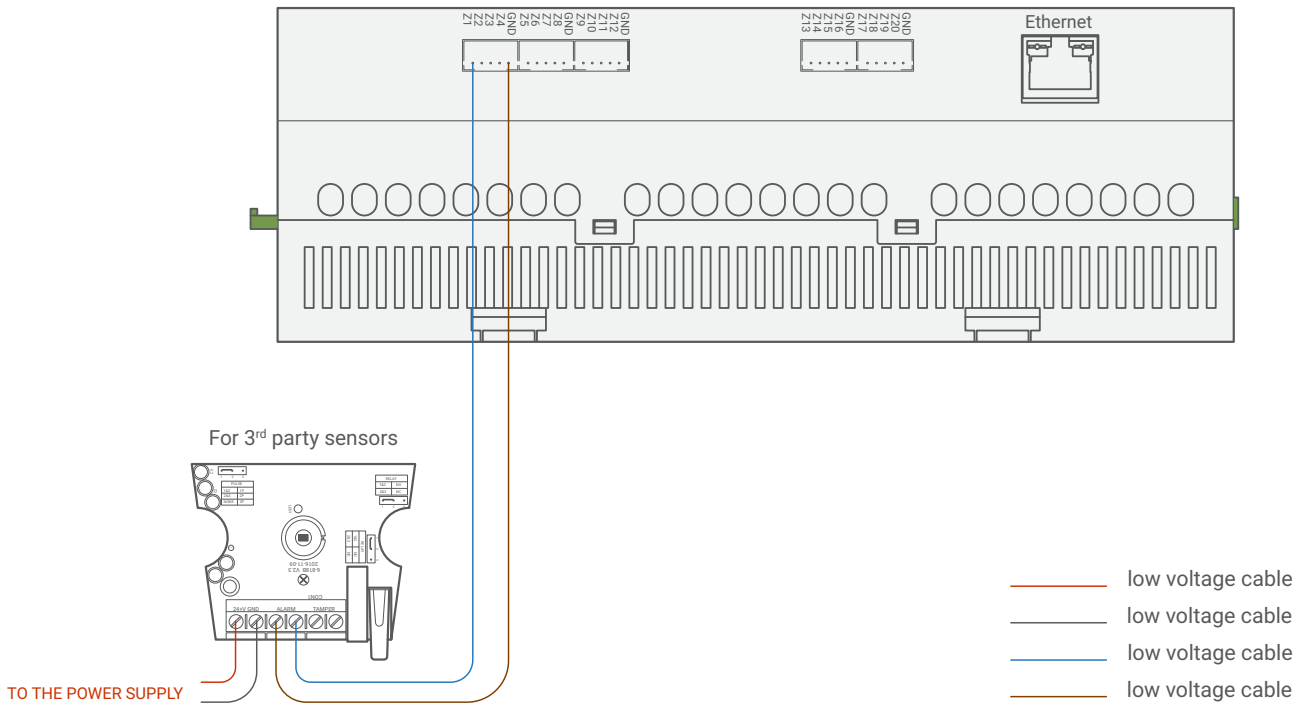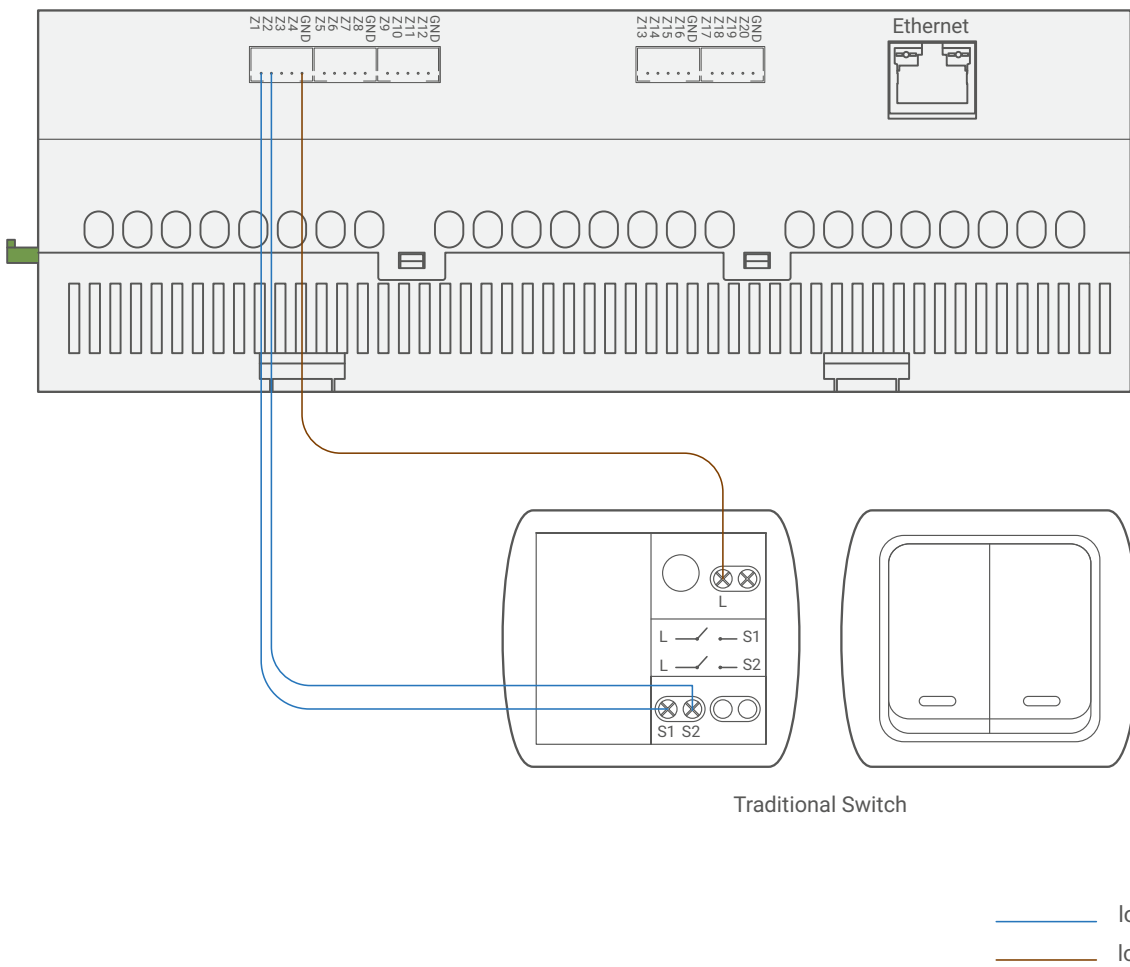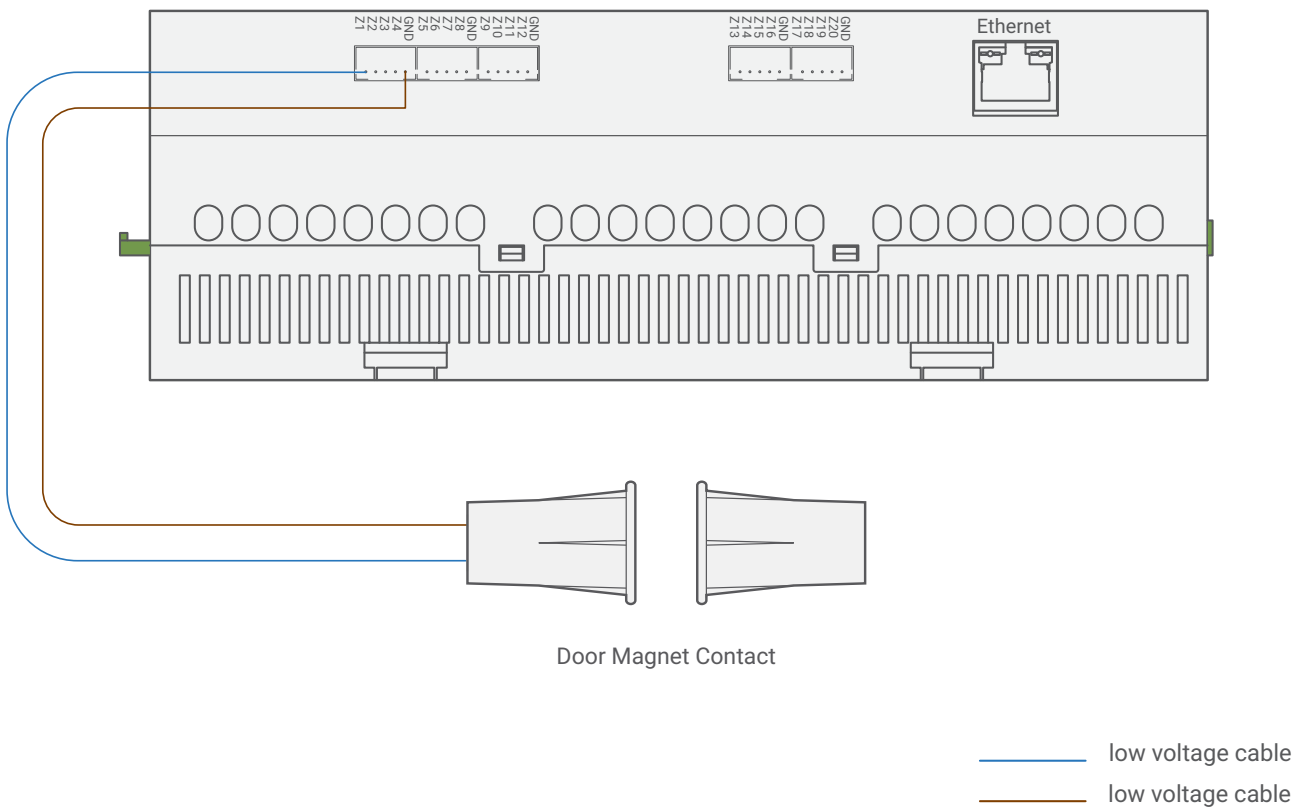▲ **Figure 2: FCU Connection Diagram**

TEXAS INTELLIGENT SYSTEM LLC
SUITE# 610. 860 NORTH DOROTHY DR
RICHARDSON
TX 75081.USA

TIS CONTROL LIMITED
RM 1502-p9 Easey CommBldg
253-261 Hennessy Rd Wanchai
Hong Kong

www.tiscontrol.com

ROOM CONTROL UNIT

20 INPUTS 20 OUTPUTS WITH IP PORT

Model: RCU-20R20Z-IP

Connect To N

220 ~ 110 Volt

Connect To L

MCB

O-OFF

I-ON

WARNING! HIGH VOLTAGE!

E1 E2

PRG

com 13 14 15 com 16 17 18   com 19 20 21 com 22 23 24   TIS-BUS
                                                          GND D- D+ +24V

To the TIS BUS Network <<<

Cat5e

2.5 mm Electric Cable
1.5 mm Electric Cable
1.5 mm Electric Cable

GND(white-orange)&(white-brown)

D-(white-green)&(white-blue)

Cat5e connection

D+(blue-green)

+24V(brown-orange)
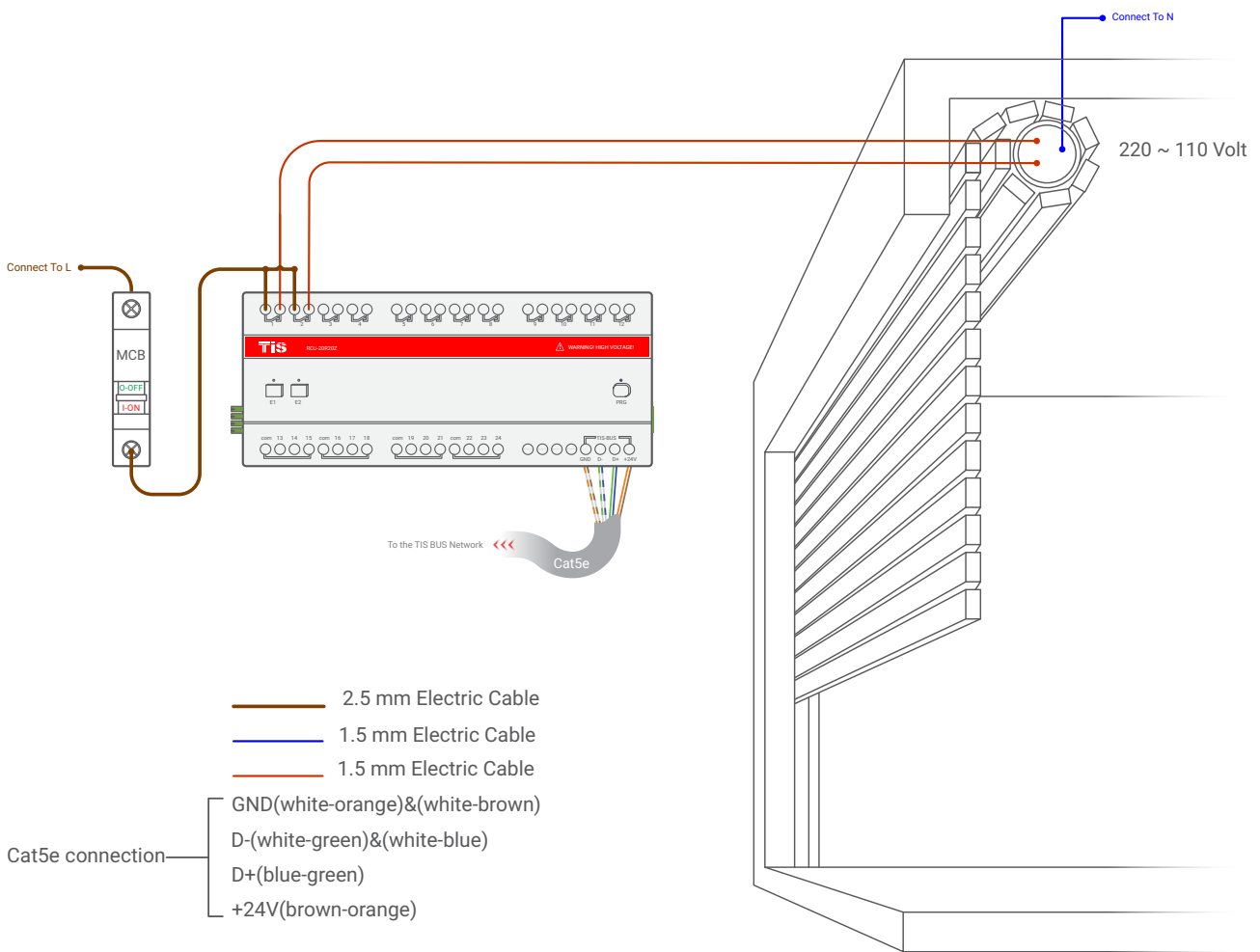
▲ **Figure 3: Motors Connection Diagram**

ROOM CONTROL UNIT

20 INPUTS 20 OUTPUTS WITH IP PORT

Model: RCU-20R20Z-IP

To the TIS BUS Network <<<
Cat5e

AC/DC ADAPTER
Input 110~220V AC
Output 12V DC

Connect To N
Connect To L

Electric Lock

—— low voltage cable
—— low voltage cable
—— 1.5 mm Electric Cable
—— 1.5 mm Electric Cable

Cat5e connection
- GND(white-orange)&(white-brown)
- D-(white-green)&(white-blue)
- D+(blue-green)
- +24V(brown-orange)

▲ **Figure 4: Electric Lock Connection Diagram**

www.tiscontrol.com

For 3rd party sensors

TO THE POWER SUPPLY

low voltage cable
low voltage cable
low voltage cable
low voltage cable

▲ **Figure 5: 3rd Party Sensor Connection Diagram**

ROOM CONTROL UNIT

20 INPUTS 20 OUTPUTS WITH IP PORT

Model: RCU-20R20Z-IP

Ethernet

Traditional Switch

———— low voltage cable
———— low voltage cable

▲   **Figure 6: Traditional Light Switch Connection Diagram**

Door Magnet Contact

——— low voltage cable
——— low voltage cable

▲   **Figure 7: Magnetic Door Contact Connection Diagram**

ROOM CONTROL UNIT

20 INPUTS 20 OUTPUTS WITH IP PORT

Model: RCU-20R20Z-IP
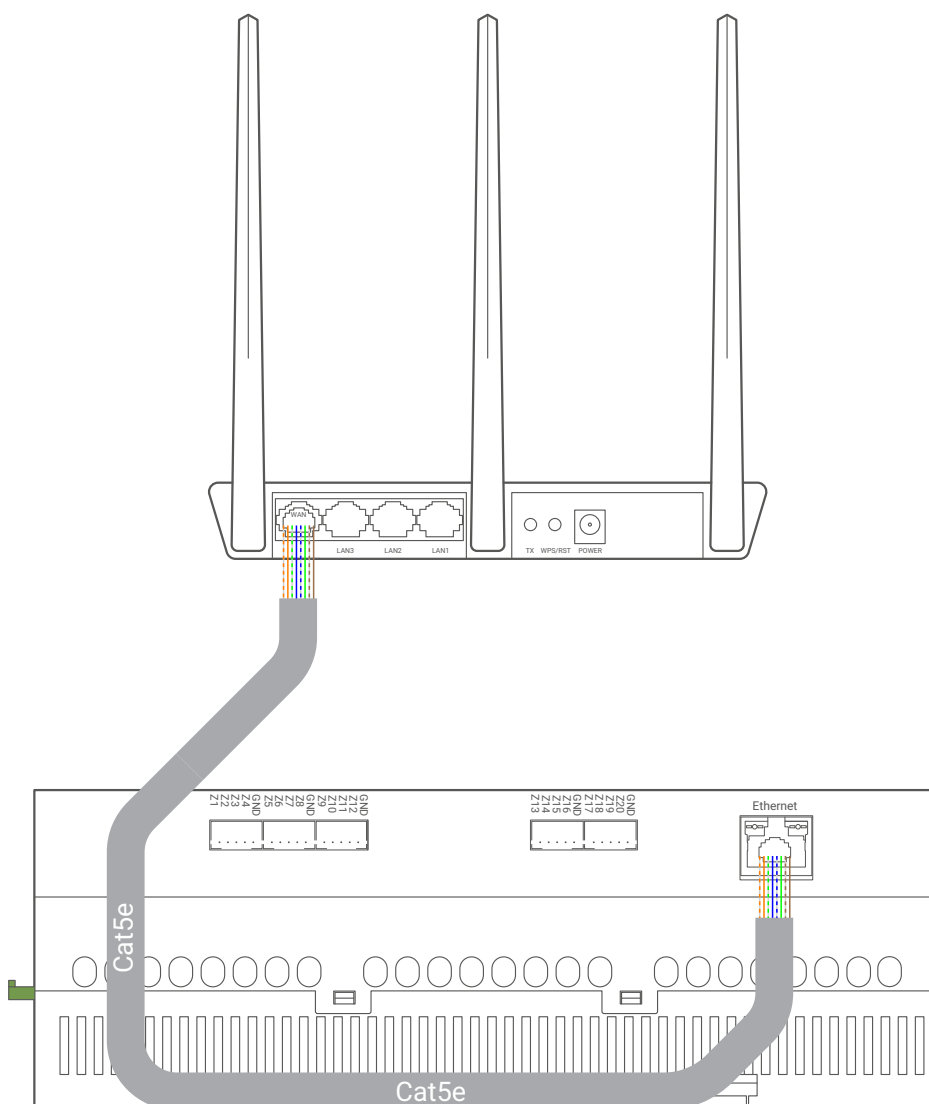
▲ Figure 8: Ethernet Router Connection Diagram

RCU-20R20Z   ⚠ WARNING! HIGH VOLTAGE!

E1   E2   PRG

com 13 14 15 com 16 17 18   com 19 20 21 com 22 23 24   TIS-BUS

GND D- D+ +24V

To the TIS BUS Network ‹‹‹   Cat5e

Cat5e connection
- GND(white-orange)&(white-brown)
- D-(white-green)&(white-blue)
- D+(blue-green)
- +24V(brown-orange)
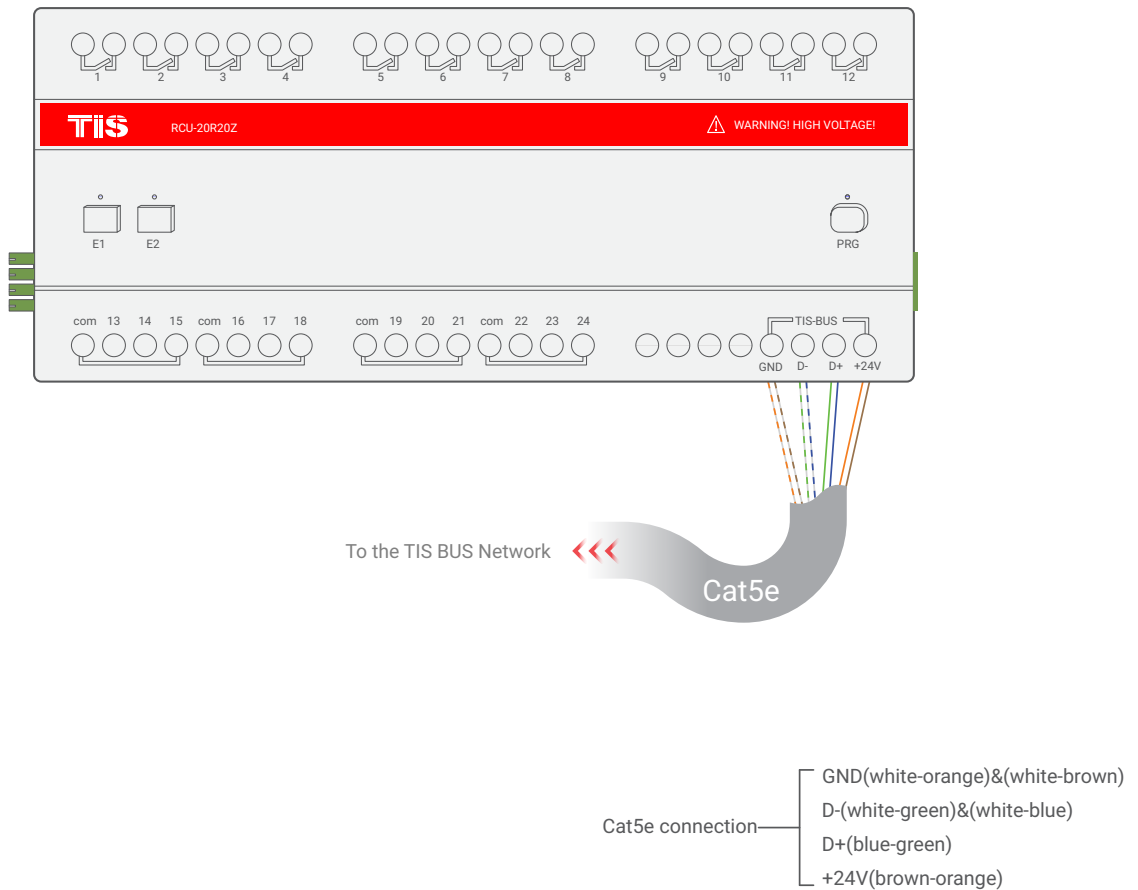
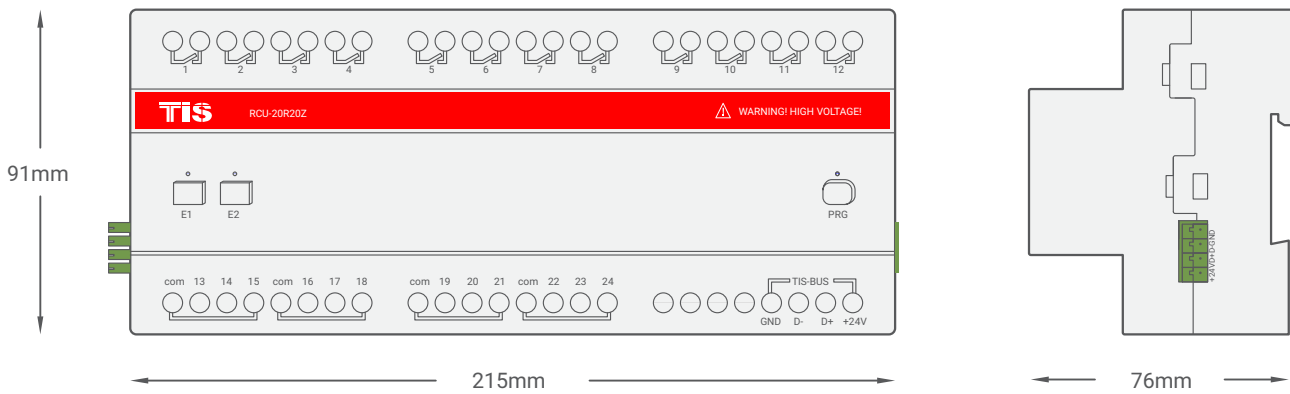▲   **Figure 9: Module's Bus Connection Color Coding**

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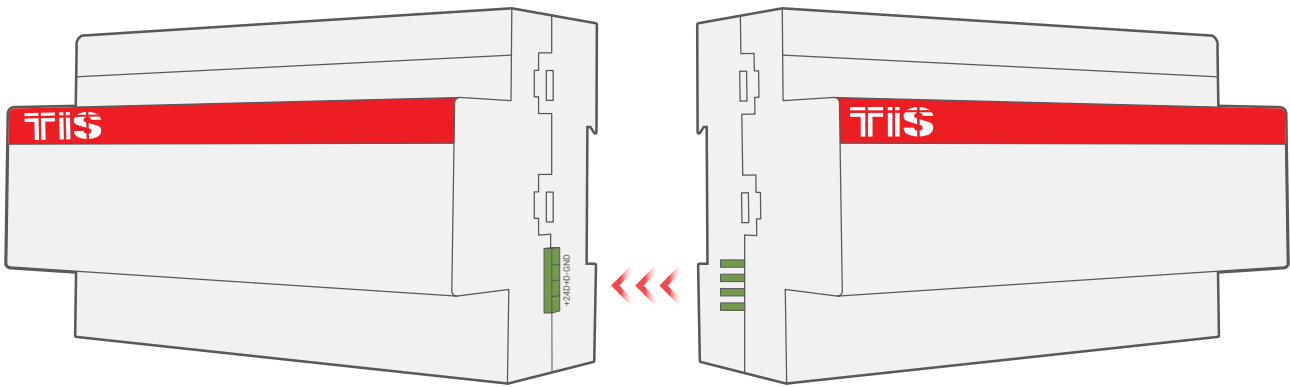
▲   **Figure 10: DIN-Rail Bus Module Configuration Diagram**

▲ Figure 11: Module's Dimension Diagram