

10 Installing the BTS3012 Sensors

About This Chapter

This task describes how to install the BTS3012 sensors. The sensors consist of the door control sensor, water sensor, smoke sensor, infrared sensor, and humidity and temperature sensor.

[10.1 Fixing the BTS3012 Sensors](#)

This task describes how to fix the BTS3012 sensors. The environment variables for detection vary, so different types of the BTS3012 sensors should be installed in different positions of the cabinet.

[10.2 Connecting the Sensors to the BTS3012 Cabinet](#)

This task describes how to connect the sensors to the BTS3012 cabinet. You must connect the sensors to the BTS3012 cabinet through the digital distribution frame (DDF) box.

10.1 Fixing the BTS3012 Sensors

This task describes how to fix the BTS3012 sensors. The environment variables for detection vary, so different types of the BTS3012 sensors should be installed in different positions of the cabinet.

Context



NOTE

- The door control sensor should be installed at the joint of the door and the doorframe.
- The water sensor should be placed horizontally in the equipment room where water tends to seep through.
- The smoke sensor should be installed in the center of the ceiling of the equipment room.
- The infrared sensor should be installed on the wall with a wide detection area. The sensor should be 1.5 m above the floor. The sensor should directly face the possible intrusions and there should not be obstacles within the detection coverage.
- The temperature and humidity sensor should be installed on the wall. The sensor should be 1.5 m above the floor.

Procedure

- Door Control Sensor
 1. Use a pencil to mark installation holes on the doorframe and on the door for the door control sensor.
 2. Use a punch drill to drill on the marked positions.
 3. Insert the plastic expansion tubes into the installation holes.
 4. Use screws to fix the angle piece of the door control sensor to the door and doorframe.
- Water Sensor
 1. Choose an indoor low-lying area or choose the area right below the BTS3012 cabinet. Clean the chosen area.
 2. Place the water sensor horizontally.
- Smoke Sensor
 1. Remove the base from the smoke sensor.
 2. Use a pencil to mark the installation holes of the base on the ceiling.
 3. Use a punch drill to drill on the marked positions.
 4. Insert the plastic expansion tubes into the installation holes.
 5. Use screws to fix the base to the ceiling.
 6. Install the smoke sensor.
- Infrared Sensor
 1. Remove the angle piece from the infrared sensor.
 2. Use a pencil to mark two holes for the angle piece on the wall.
 3. Use a punch drill to drill on the marked positions.
 4. Insert the plastic expansion tubes into the installation holes.
 5. Use screws to fix the angle piece of the infrared sensor to the wall.

6. Install the infrared sensor.
- Temperature and Humidity Sensor
 1. Remove the backplane from the temperature and humidity sensor.
 2. Use a pencil to mark three holes for the backplane on the wall.
 3. Use a punch drill to drill on the marked positions.
 4. Insert the plastic expansion tubes into the installation holes.
 5. Use screws to fix the backplane to the wall.
 6. Install the temperature and humidity sensor on the backplane.

----End

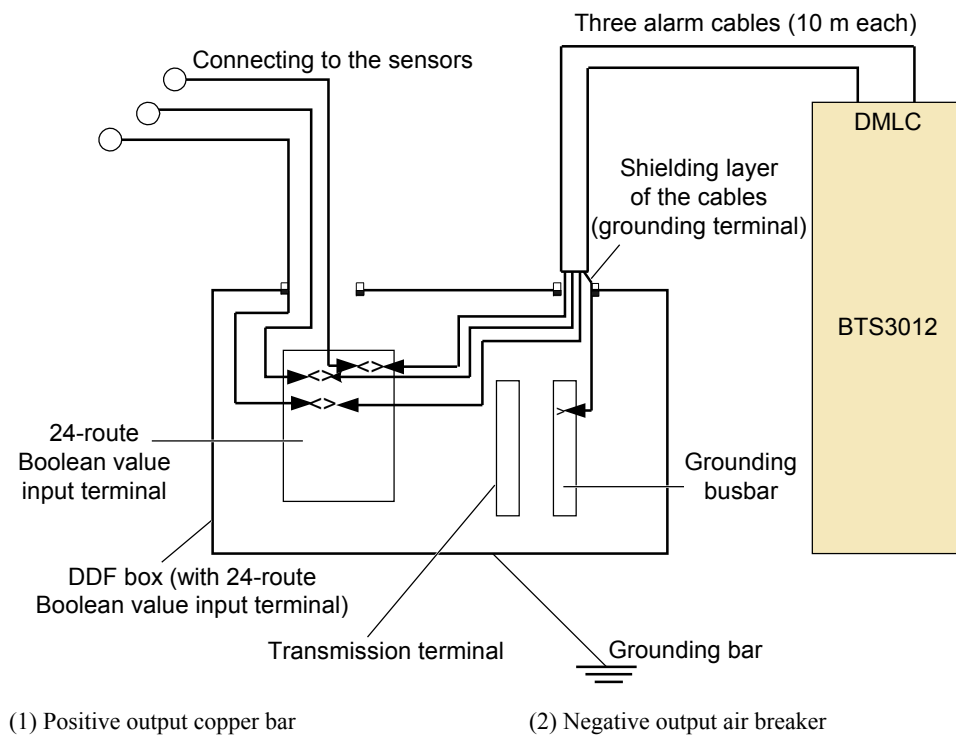
10.2 Connecting the Sensors to the BTS3012 Cabinet

This task describes how to connect the sensors to the BTS3012 cabinet. You must connect the sensors to the BTS3012 cabinet through the digital distribution frame (DDF) box.

Procedure

- Step 1** Connect the MD68 male connector of the Boolean value transfer cable to the IN port on the panel of the DEMU.
- Step 2** Use a dedicated monitoring signal cable to connect the AIN port on the DMLC to the DDF box, as shown in [Figure 10-1](#).

Figure 10-1 Connecting the DMLC to the DDF box



- Step 3** Connect the sensors to the DDF box. For detailed information about the wiring terminals of the sensors, see [BTS3012 Sensors](#).

**NOTE**

- Connect the grounding wires of the sensors to the grounding bar in the DDF box first.
- Each of the three alarm cables is 10 m long before delivery. Cut the extra part of the cables according to the actual situation.
- The DDF box can be used for the transmission cable.
- Tie the cables neatly after installing them in the DDF box.

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