Notes: Please DO NOT let the power cable too loose and fall into the diversion groove on position P3. This will disturb the installation of outer housing. More than this, it will cause drip-drops to flow into the heater along the power cables, to impact the performance of heater.

Step 4: Firstly push the two connectors with black cable into the wiring terminals of thermostat switch, then screw the thermostat switch onto the position P6, connect the RED power cable of heater to the positive terminal of sensor power supply. Then connect the BLACK power cable of heater to the cathode terminal of sensor power supply, in this way, the heater is installed completely.

Step 5: As shown in figure 4, stick the sponge sticker on the two side of flank surface of detector base (as the black part) and make it adpressed properly, trimly and without rumple, also ensure that the sponge block SB1 is stuffed into wiring output window properly, for anti-heat dissipation. Otherwise, it may affect lower limit temperature.

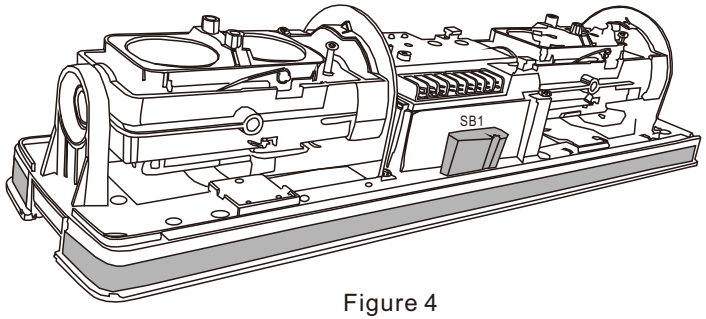


Figure 4

Step 6: Test: After heater installation, keep the heater powered up by quad beam sensor, short the two terminals of thermostat switch with test cable and keep for 1 to 2 minutes, the temperature of heater should rise up, that is to say the heater can work normally. After test, please uninstall the test cable and follow up the user manual of quad beam sensor to re-align and re-setup, to ensure the normal work of beam sensor, then install outer housing to complete all installation.

Security notice:

This heater AH24C is for the use of photoelectric quad beam sensors only, NOT for other uses. On the working status of heater, if you open outer housing of detector, please DO NOT touch metal radiator to avoid burning.

Heater AH24C

User Manual

For HIBS & AX Series

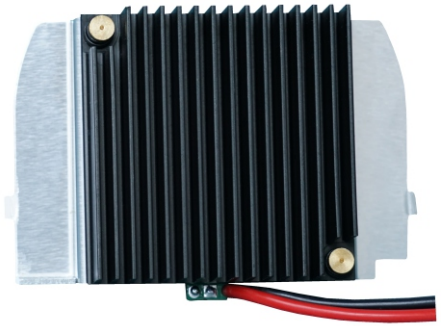
Photoelectric Quad Beam Sensors

Thank you so much for purchasing this heater AH24C for your quad beam sensor, before installing, please carefully read this user manual and strictly follow up the steps, to ensure proper installation and stable performance.

Heater AH24C For Photoelectric Quad Beam Sensor

The heater AH24C is specially designed for photoelectric quad beam sensors such as AX-80Q, AX-110Q, AX-160Q, AX-250Q and Honeywell HIBS-2080, HIBS-2110, HIBS-2160 HIBS-2250. Even though the ambient temperature is low to -37℃, the heater can also keep the temperature inside sensor above 0℃, to efficiently defrost and ensure the sensor to work in normal condition.

Features:



- High efficient heat exchange design
- Environment adaptive power control
- Constant temperature controlled by electronic switch pulse
- Triple temperature control and protection
- Easy to install and use

Technical Specifications:

- Power supply: 12 to 24V DC/0.7A (per piece)
- Power consumption: 7W on average (per piece)
- Working temperature range: -37 to +50 ℃
- Constant temperature range: 5 to +15 ℃

Notes:

The heater is specially designed for photoelectric quad beam sensors such as model AX-110, AX-160, AX-250 and Honeywell HIBS-2080, HIBS-2110, HIBS-2160, HIBS-2250.

If the heater is powered up directly by quad beam sensor, before installation, please compute, based on the total current max. 1.6A/set (transmitter, receiver and their heater included), the section area of power cable and select power supply with proper output power, to avoid that the sensors fail to work normally due to lower voltage supplied. It is recommended to use 18 to 24V to avoid impact on voltage dropping-down due to power cable consumption.

How to install the heater AH24C

Step 1: Open the outer housing of quad beam sensor, on the bottom of sensor, as shown in Figure 1, screw off the screw in the position P2, then keep the heater close to the semicircle base and aline slide track, then press lightly the arrowed positions and push the heater to the bottom. Neaten the power cables, push them into the cable slot in position P1 and tighten, to avoid wiring crossing.

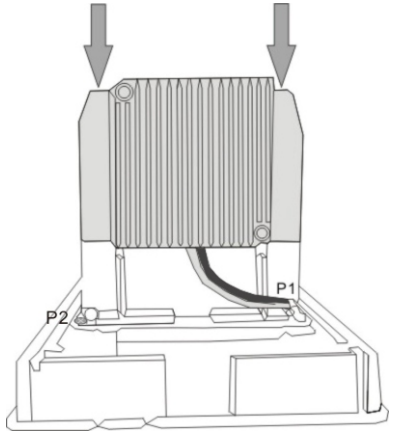


Figure 1

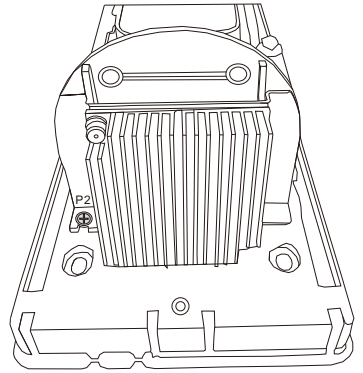


Figure 2

Step 2: As shown in figure 2, in the position P2, screw on the screw uninstalled to fix the heater.

Step 3: As shown in figure 3, please clean, if in need, the surface of position P4 and stick the cable clamp onto this position, neaten and tighten the power cables and press them into the cable slot in position P5.

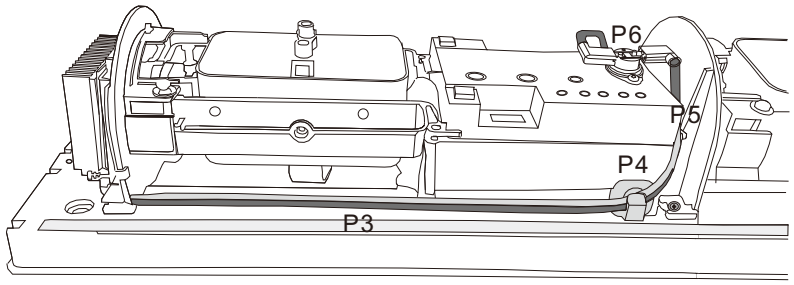


Figure 3