Multi-function R30E sensor Instructions

Version 1.2

Picture
R30E has following functions:

① Run light: showing whether sensor is working normally. Run light should be flashing;
② Infrared: accept the commands from remote, could exchange program, adjust volume;
③ Temperature: for measuring external environment temperature and show on led screen;
④ Moisture: for measuring external environment humidity and show on led screen;
⑤ Brightness: for measuring external environment brightness and then adjust the led screen brightness automatically; normally Led screen brightness will be high in the daytime and dim in the evening;
⑥ Integrates HUB75E ports;
⑦ Integrates GPS antenna port;
⑧ Integrate synchronizing program modem and its antenna;
⑨ Can connect the R30E with led control card via 20pin cable please check the connections pictures for reference;
⑩ 1 meter wire for brightness sensor
  1.5meter wire for temperature sensor
  1.1meter wire for humidity sensor
  0.5 meter wire for infrared sensor
  These wires could be modified according to customer requests;
⑪ R30E can work with all types of Xixun led control card;
⑫ Customer could select sensor type according to own requests, like only temperature, only humidity or only brightness and so on;
⑬ R30E doesn't need separate power supplier;
Sensor cables

Humidity cable  Light cable  Infrared cable  Temperature cable

Synchronizing program modem and its antenna
Dimension
If the Led modules do not use HUB75 standard type, then please install the R30E with a D10 PCB, which will be fixed and easy to be installed.

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**Notifications**

1. Please be waterproof
2. Try not to touch the IC and pins so that to avoid the electrostatic damage.
Working condition

<table>
<thead>
<tr>
<th>Humidity precision</th>
<th>±4.5（%RH）</th>
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</thead>
<tbody>
<tr>
<td>Humidity range</td>
<td>0–100(%RH)</td>
</tr>
<tr>
<td>Temperature precision</td>
<td>±0.5℃</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-55℃--+125℃</td>
</tr>
</tbody>
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