letter of agreement

Serial port configuration:

The baud rate is 115200BPS, 8 bits of data, 1 stop bit, and status changes to send data.

Data format sent by radar module:

<start code + status code + jog gear code + delay gear + check>

Start code: 0xaa

Status code 0x00: the object is stationary; 0x01: the object is approaching; 0x02: the object is leaving.

Inching gear code: There is a sensitivity gear, ranging from 0x01 to 0x0a (usually only the first five gears are used).

Check code = start code + status code + gear code

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Start code | status code |  jog gear code | Delay gear | check | description |
| AA | 00 | 05 | 00 | AF | The object is stationary, the jog gear is 5, and the delay is 2S |
| AA | 01 | 05 | 00 | B0 | The object is approaching, the jog gear is 5, and the delay is 2S |
| AA | 01 | 01 | 00 | AC | The object is approaching, the jog gear is 1, and the delay is 2S |

Radar module receiving:

<Start code + jog gear + delay gear + check>

Start code: 0xcc

Inching gear position: 0x01~0x0a (indicating gears 1 to 10, corresponding to the sensitivity of presence detection)

Delay file: The delay time of the inching state is (delay file\*15s, this function is temporarily not used in the serial port version).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Start code | jog gear code | Delay gear | check | description |
| CC | 01 | 00 | CD | jog gear is 1, delay 2S |
| CC | 02 | 00 | CE | jog gear is 2, delay 2S |
| CC | 03 | 00 | CF | jog gear is 3, delay 2S |
| CC | 04 | 00 | D0 | jog gear is 4, delay 2S |
| CC | 05 | 00 | D1 | jog gear is 5, delay 2S |