Send Command Components

Packet header: FD FC FB FA

Length of data in frame (two bytes)

Intra-frame data (command value two bytes + parameter value *N bytes)

End of packet: 04 03 02 01

Receive Command Component

Packet header: FD FC FB FA

Length of data in frame (two bytes)

Return value (two bytes) 00 for success, others for failure

In-frame data (return command value two bytes + return value *N bytes)

End of packet: 04 03 02 01

Command Value:

Command type	Command value (two bytes)	Command data*N
Module open command mode	0xFF	2-byte upper version, default 01
Module close command mode	0xFE	None
Read version number	0x00	None
Reboot module	0x68	None
Read module configuration parameters	0x08	(2-byte parameter name) * N See Table 2 for parameter names
Set-up module configuration parameters	0x07	(2-byte parameter name + 4-byte parameter value) * N See Table 2 for parameter name parameter value

Table 1

Parameter Name:

Command type	Parameter name (two bytes)	Parameter value (4 bytes)
Minimum detection distance door	0x00	Range 0x00-0x0F
Maximum detection distance door	0x01	Range 0x00-0x0F
Delay time	0x04	Range 0x00-0x0F
Trigger threshold	0x10-0x1F	Range 0-65536
Maintain threshold	0x20-0x2F	Range 0-65536

Table 2

Command commands and parameter values are preceded by a small field

Example: Restart module command 68, command value 0x68 0x00

Example:

Query the value of trigger threshold 00,

Send: FD FC FB FA 04 00 08 00 10 00 04 03 02 01

Return: FD FC FB FA 08 00 08 01 00 00 40 9C 00 00 04 03 02 01

Parse:

Packet header FD FC FB FA Parameter data length 08 00

Return command value 08 01 Parameter value 40 9C 00 00

End of packet 04 03 02 01

The value of the trigger threshold is read in hexadecimal, the small field is in front, 9C 40, so the value is 60000.

Sample Commands

Open command mode FD FC FB FA 04 00 FF 00 01 00 04 03 02 01

Response: FD FC FB FA 08 00 FF 01 00 00 02 00 20 00 04 03 02 01

Close command mode FD FC FB FA 02 00 FE 00 04 03 02 01

Response: FD FC FB FA 04 00 FE 01 00 00 04 03 02 01

Read version number FD FC FB FA 02 00 00 00 04 03 02 01

Response: FD FC FB FA 0C 00 00 01 00 00 06 00 76 31 2E 35 2E 34 04 03 02 01

Restart the module FD FC FB FA 02 00 68 00 04 03 02 01

Read module parameters (minimum distance) FD FC FB FA 04 00 08 00 00 00 04 03 02 01

Response: FD FC FB FA 08 00 08 01 00 00 00 00 00 00 04 03 02 01

Set module parameters (minimum distance 00) FD FC FB FA 08 00 07 00 00 00 **00 00 00 00** 04 03 02 01

Response successful: FD FC FB FA 04 00 07 01 00 00 04 03 02 01

Read module parameters (max distance) FD FC FB FA 04 00 08 00 01 00 04 03 02 01

Response: FD FC FB FA 08 00 08 01 00 00 0C 00 00 00 04 03 02 01

Set module parameters (max. distance 12) FD FC FB FA 08 00 07 00 01 00 **0C 00 00 00** 04 03 02 01

Response successful: FD FC FB FA 04 00 07 01 00 00 04 03 02 01

*Read module parameters (delay time) FD FC FB FA 04 00 08 00 04 00 04 03 02 01

Response: FD FC FB FA 08 00 08 01 00 00 1E 00 00 00 04 03 02 01

Set the module parameters (delay time) FD FC FB FA 08 00 07 00 04 00 **1A 00 00 00** 04 03 02 01

Response successful: FD FC FB FA 04 00 07 01 00 00 04 03 02 01

Read module parameters (hold threshold 00) FD FC FB FA 04 00 08 00 20 00 04 03 02 01

Response: FD FC FB FA 08 00 08 01 00 00 40 9C 00 00 04 03 02 01

Set module parameters (hold threshold 00) FD FC FB FA 08 00 07 00 20 00 **50 C3 00 00** 04 03 02 01

Response successful: FD FC FB FA 04 00 07 01 00 00 04 03 02 01

Read module parameters (trigger threshold 00) FD FC FB FA 04 00 08 00 10 00 04 03 02 01

Response: FD FC FB FA 08 00 08 01 00 00 40 9C 00 00 04 03 02 01

Set module parameters (trigger threshold 00) FD FC FB FA 08 00 07 00 10 00 **50 9C 00 00** 04 03 02 01

Response successful: FD FC FB FA 04 00 07 01 00 00 04 03 02 01

Read module parameters (trigger threshold 00-05)

FD FC FB FA 0E 00 08 00 10 00 11 00 12 00 13 00 14 00 15 00 04 03 02 01

Response successful: FD FC FB FA 1C 00 08 01 00 00 60 EA 00 00 30 75 00 00 B8 0B 00 00 D0 07 00 00 F4 01

00 00 90 01 00 00 04 03 02 01

Set module parameters (trigger threshold 00-05)

FD FC FB FA 24 00 07 00 10 00 60 EA 00 00 11 00 30 75 00 00 12 00 B8 0B 00 00

13 00 D0 07 00

00 14 00 F4 01 00 00 15 00 90 01 04 03 02 01

Response successful: FD FC FB FA 04 00 07 01 00 00 04 03 02 01