Use RFXCOM in Home Assistant

The RFXCOM integration is used to receive remotes, sensors and control devices but the integration does not support all protocols.
To control a device which are not implemented in the RFXCOM integration is explained in this document.

Contents

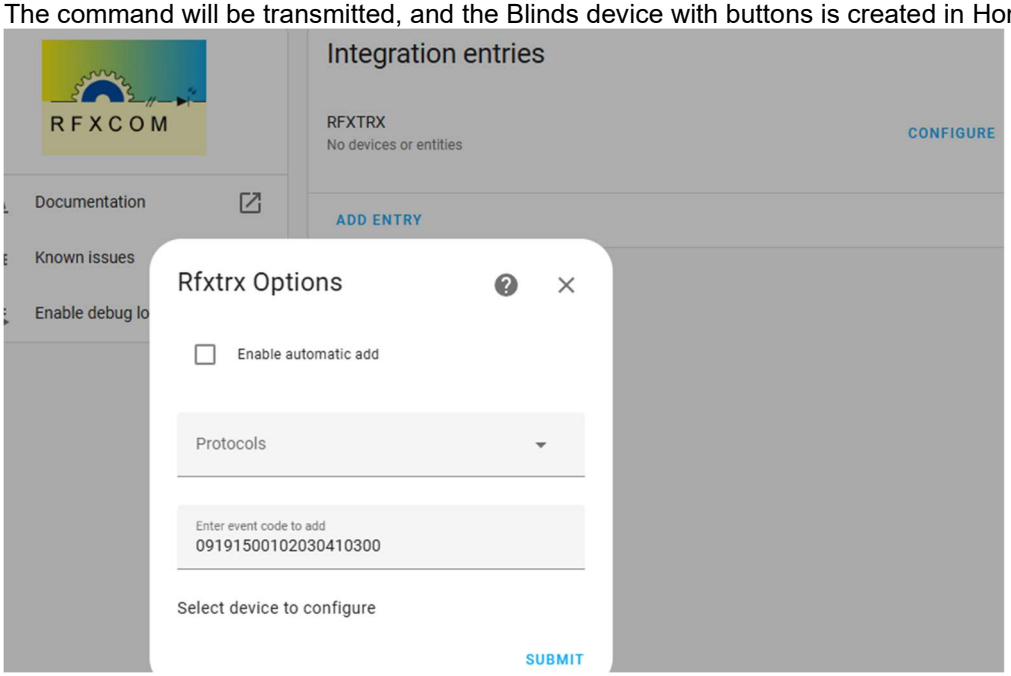
1. RFX433 Bi-directional blinds motors

It is possible to control the bi-directional Brel,Dooya,Motionblinds,mhz.de,Gaviota Elite and other Dooya compatible bi-directional motors with the RFX433XL and RFX-433EMC.
Note: the DD27xx remotes are not received because they use a different secret code.

1.1. Pair the motor using Home Assistant

Before you can use commands to control the motor you have to pair the RFX as an additional remote with the motor. This “remote”-code is only stored in the motor.
See the user guide of the motor how to add an additional remote in the motor.
(Note that the limits must be set before you can add an additional remote)
If the motor is already paired with an RFX it is not necessary to pair again with Home Assistant but start using up/down commands.

Transmit a pair command in the RFXCOM integration.
Click Configure and enter the Confirm/Pair Event code.
The command will be transmitted, and the Blinds device with buttons is created in Home Assistant.



1.1. Get the HA Event code using RFXmngr

```
==============================================
25-1-2025 01:33:39:518= Blinds command: 09 19 15 10 10 20 30 01 03 00
HA code:09191510102030010300
==============================================
Packettype     = BLINDS1
subtype        = T21 DDxxxx bi-directional
Sequence nbr   = 16
id1-4          = 1020300 decimal:16909056
Unit           = 1
Command        = Confirm/Pair
Signal level   = +10 dBm
```

1.2. Packet format for transmit commands

You can use a random ID (00 00 00 0 – FF FF FF F) and Unit (0 – F)

Example: Confirm/Pair with ID 10 20 30 4 Unit 1

```
09191500 10 20 30 41 03 00
-------- -- -- -- -- -- --
|        |  |  |  || |  |= always 00
|        |  |  |  || |==== command
|        |  |  |  ||====== unit code 0 to F
|        |  |  |  |======= ID4 0 to F (ID 0000001 to FFFFFFF)
|        |  |  |========== ID3 00 to FF
|        |  |============= ID2 00 to FF
|        |================ ID1 00 to FF
|========================= header always 09191500
```

Control commands:

Up	0x00
Down	0x01
Stop	0x02
P2 (confirm/pair)	0x03

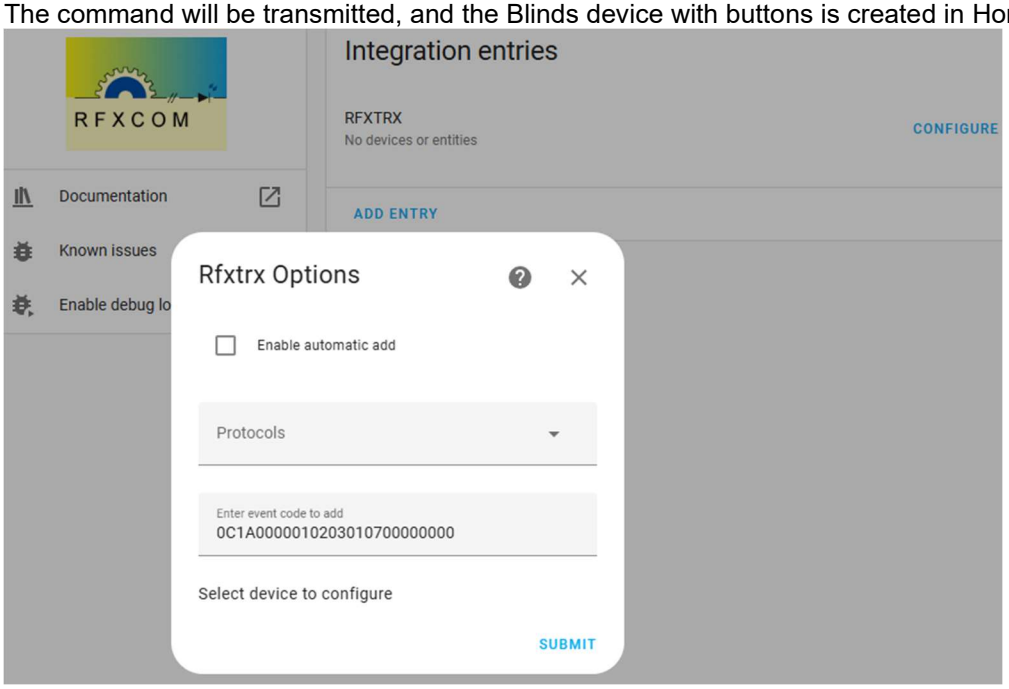
2. RFX433 Somfy RTS, ASA

It is possible to control up to 40 Somfy RTS or ASA motors with the RFXtrx433E, RFXtrx433XL, RFX433XL, RFX-433 and RFX-433EMC.

2.1. Pair the motor using Home Assistant

Before you can use commands to control the motor you have to pair the RFX as an additional remote with the motor. This “remote”-code is only stored in the motor.
See the user guide of the motor how to add an additional remote in the motor.
(Note that the limits must be set before you can add an additional remote)
If the motor is already paired with an RFX it is not necessary to pair again with Home Assistant but start using up/down commands.

Transmit a pair command in the RFXCOM integration.
Click Configure and enter the Confirm/Pair Event code.
The command will be transmitted, and the Blinds device with buttons is created in Home Assistant.



2.2. Get the HA Event code using RFXmngr

```
==============================================
25-1-2025 01:09:06:819= RFY command: 0C 1A 00 0C 01 02 03 01 07 00 00 00 00
HA code:0C1A00000102030107000000000
==============================================
Packettype    = RFY
subtype       = RFY
Sequence nbr  = 0
id1-3         = 010203 decimal:66051
Unit          = 1
Command       = program
rfu1          = 00
rfu2          = 00
rfu3          = 00
Signal level  = +10 dBm
```

2.1. Packet format for transmit commands

```
0C1A 00 00 010203 01 07 00000000
---- -- -- ------ -- -- --------
|    |  |  |      |  |  |= 8 x zero
|    |  |  |      |  |==== command
|    |  |  |      |======= unit code 0 to F
|    |  |  |==============  ID1-3 (00001 to FFFFF)
|    |  |=================  00
|    |====================  00=Somfy RTS, 03=ASA
|=========================  header always 0C1A
```

stop	0x00	0x00
up	0x01	0x01
down	0x03	0x03
Program	0x07	0x07
Up < 0.5 seconds (venetian US mode – Open)	0x0F	
Down < 0.5 seconds (venetian US mode – Close)	0x10	
Up > 2 seconds (venetian US mode – change angle +)	0x11	
Down > 2 seconds (venetian US mode – change angle -)	0x12	
Up < 0.5 seconds (venetian European mode – change angle +)	0x0F	
Down < 0.5 seconds (venetian European mode – change angle -)	0x10	
Up > 2 seconds (venetian European mode – Open)	0x11	
Down > 2 seconds (venetian European mode – Close)	0x12	
Enable sun+wind detector	0x13	0x13
Disable sun detector	0x14	0x14
stop + down >2 seconds (Confirm new mode US/EU)	0x15	
up + stop + down		0x15

3. RFX868 Orcon

Use RFXmngr to receive the Orcon remote. This will display the ID of the remote and we will use the same ID to control the Orcon.
This is supported by the RFX868XL, RFXusb-RFX868, RFX868XL, RFX-868

3.1. Get remote ID

Example of a received Orcon remote “High” command:

```
----------------------------------------------
25-1-2025 11:09:49:641= 11170C0A764077037082347D000000000000
Packettype    = FAN2
subtype       = Orcon
Sequence nbr  = 10
ID            = 764077 decimal:7749788
Destination ID= 82347D decimal:8533117
Command       = High
Signal level  = 7  -64dBm
```

3.2. Packet format for transmit commands

```
11170C00 764077 03 00 82347D 000000000000
-------- ------ -- -- ------ ------------
|        |      |  |  |      |= 12 x zero
|        |      |  |  |======== destination ID
|        |      |  |=========== 2 x zero
|        |      |============== control command
|        |====================== remote ID
|============================== header always 11170C00
```

Control commands:

Low	0x01
Medium	0x02
High	0x03
Timer1	0x04
Timer2	0x05
Timer3	0x06
Auto	0x07
Away	0x08

3.3. Action command

Use actions to transmit the commands with Home Assistant

```
...
actions:
  - action: rfxtrx.send
    data:
      event: 11170C04764077030082347D000000000000
```