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Nice FLOX1 Receiver

Product Information

Specifications:

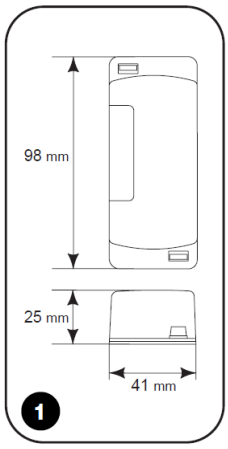
- Product Name: FLOR Receiver
- Product Family: FLOXR
- Power Supply: 12/24 V DC or AC
- Relay Outputs: 2 (Normally Open Contacts)

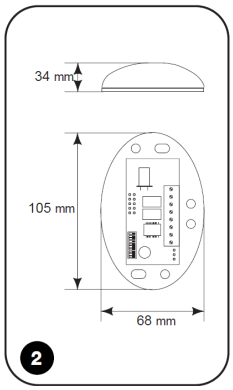
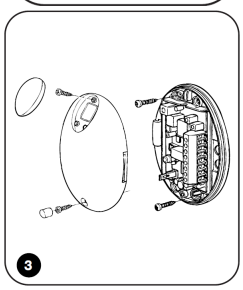
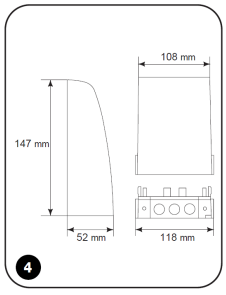
Product description

The FLO series radio control device is a radio system working at a frequency of 433.92 Mhz which remote controls door opening devices, gate opening devices and similar pieces of equipment.
The system works by transmitting and receiving a digital code featuring 1024 combinations for each transmitter button.

The available receivers are:

tab.1

Version	Power input	Connections	Format	Outputs	Fixing
FLOX1	12/24 V ac/dc	Term. board	Universal (fig.1) 	1	Adhesive or screws
FLOX2	12/24 V ac/dc	Term. board	Universal (fig.1)	2	Adhesive or screws

FLOXB2	12/24 V ac/dc	Term. board	Box (IP53) (fig. 2-3)  	2	Adhesive or screws
FLOXI	24 V ac/dc	Nice slot	Slot	1	Slot on Nice control unit
FLOXI2	24 V ac/dc	Nice slot	Slot	2	Slot on Nice control unit
FLOXM	12/24 V ac/dc	Term. board	Modular (fig.4)	Up to 4	Screws
FLOXM220	230 Vac	Term. board	Modular (fig.4) 	Up to 4	Screws

The available transmitters are:
tab.2

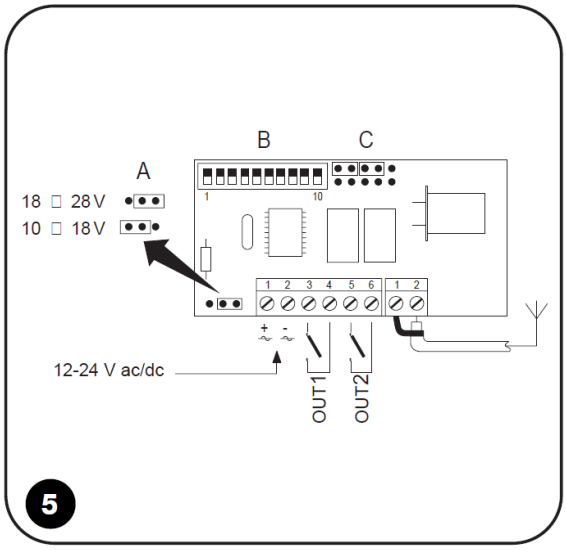
Version	**Power input**	**Buttons**

FLO1	12V alkaline battery	1
FLO2	12V alkaline battery	2
FLO4	12V alkaline battery	4
VERY VE	2 3V lithium batteries	2

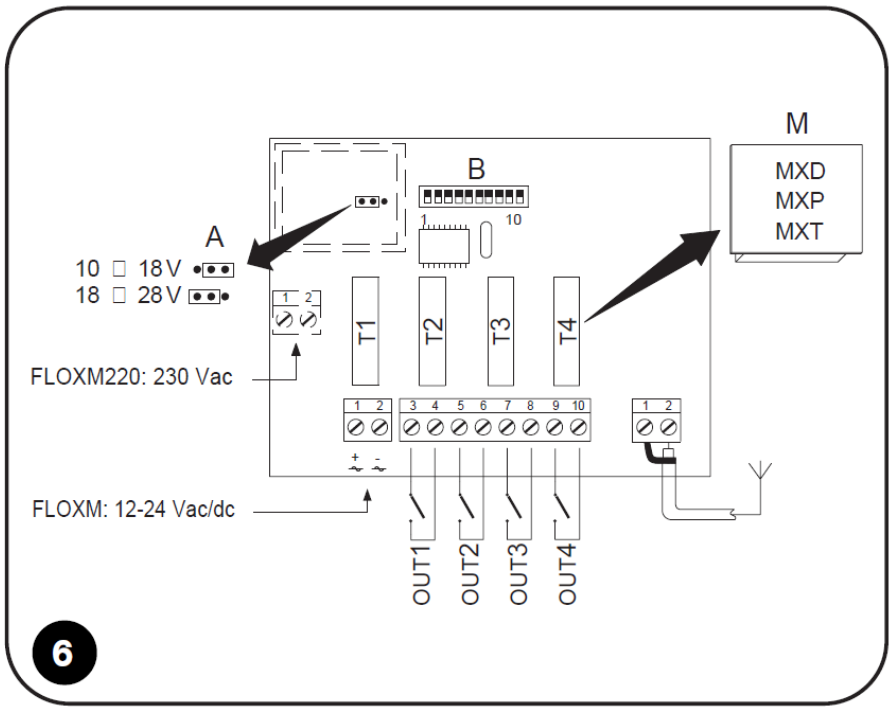
Installation:

Receivers

The FLOX1, FLOX2, FLOXB2 and FLOXM receivers can be powered by 24V ac/dc or 12V ac/dc. The power input mode can be selected by means of a jumper with tab (ref. A fig.5 and 6).



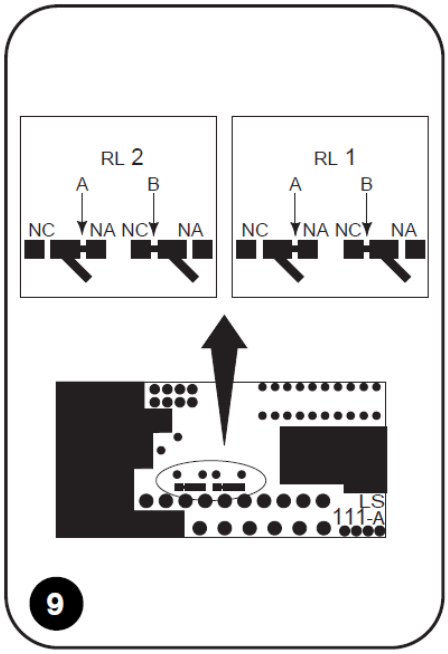
Make sure the power input mode is correct before powering the receiver.
In all the versions, the receiver outputs are normally open (N.O.) pure contacts provided by the relays on the board. In the FLOXM and FLOXM220 versions, the outputs are provided through the plug-in relay units (ref. M fig.6); there are three kinds of relay unit:



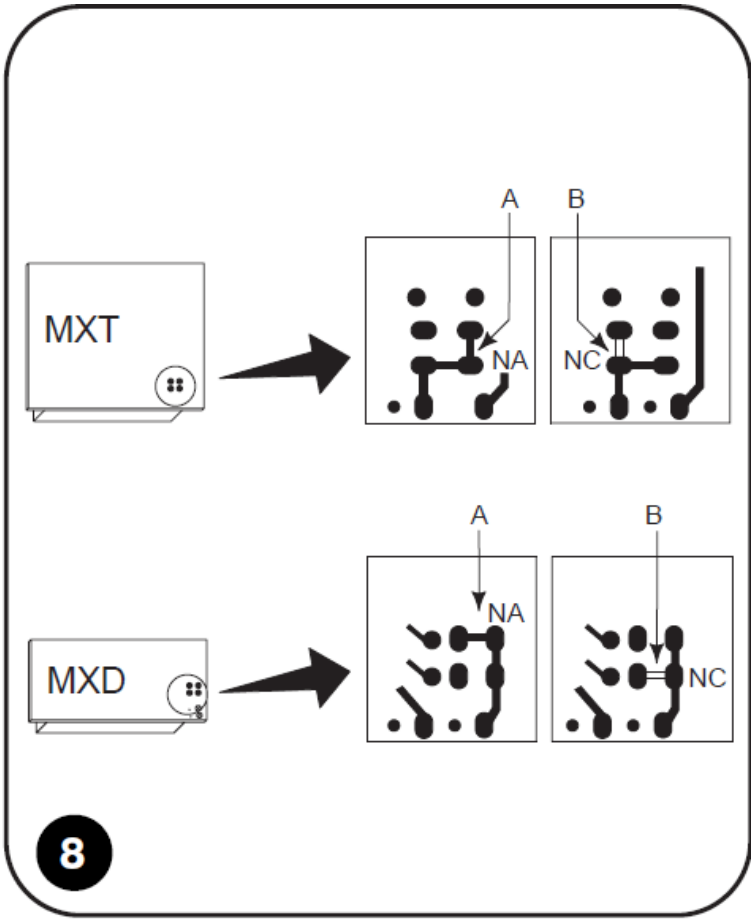
- MXD: this output is impulsive, that is, it remains active as long as the command signal remains.
- MXP: this output is step-by-step, that is, each command signal switches the status of the relay contact.
- MXT: this output is timed, that is, after being activated it remains so for a period of time that can be adjusted from 3 seconds to about 5 minutes (use a maximum of 2 MXT units).

If a normally closed “NC” type of contact is needed, for versions FLOX1, FLOX2, FLOXB2, FLOXI and FLOXI2 proceed as follows

1. Disconnect the receiver (FLOX1, FLOX2, FLOXB2) if powered or remove the board from the slot (FLOXI and FLOXI2).
2. Open the receiver box and remove the board with care (FLOX1, FLOX2, FLOXB2).
3. On the solder side of the receiver: cut the copper section at point A and then connect the bump contacts with a spot of solder in point B (fig.9)

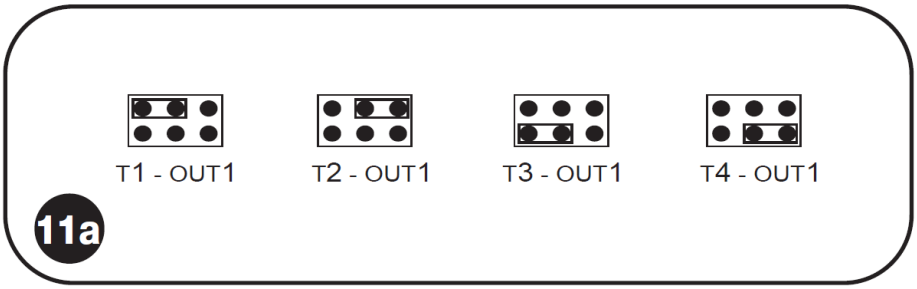


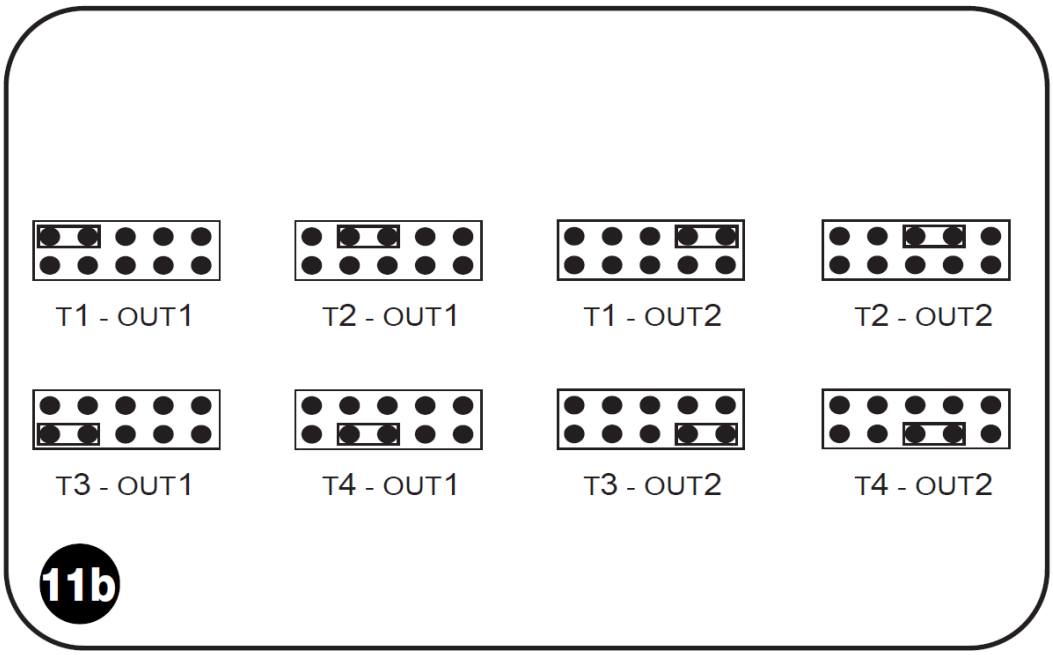
In the FLOXM and FLOXM220 versions, proceed as described in points 2 and 3 on the solder side of the relay units (fig.8).



If more than one receiver is installed close to each other, make sure they are over 50 cm apart in order to prevent interference. Associating transmitter buttons with receiver output: The FLOXM and FLOXM220 receivers feature 4 slots for the relay units, each one of which corresponds to a button on the transmitter (fig.6). For the FLOX1, FLOXI,

FLOX2, FLOXI2 and FLOXB2 receivers, each output relay is associated with a certain button by inserting a selection jumper (ref. C fig.5): for the FLOX1 and FLOXI receivers, refer to figure 11a; for the FLOX2, FLOXI2 and FLOXB2 receivers, refer to figure 11b.





Entering the code: set the 10 dip switches (ref. B fig.5 and 6) to ON – OFF in order to create the required combination.

Installation: Aerial

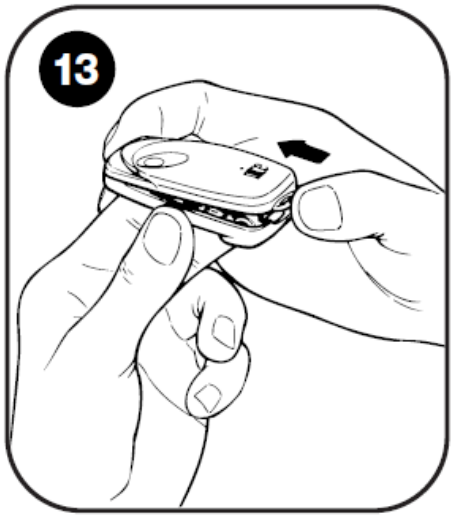
To guarantee optimum performance, each FLO receiver must be installed with its own ABF or ABFKIT aerial. The aerial must be installed as high as possible; if there are metal structures or reinforced concrete walls nearby, install the aerial on top of them. If the cable supplied with the aerial is too short, use a coaxial cable with an impedance of 52 ohms (e.g.: RG58 with low dispersion); the total length of the cable must not exceed 10 m. Connect the aerial to the relative terminal (fig.5 and 6) by connecting the central part (core) to terminal 2 and the braid to terminal 1.

If the aerial must be installed where there is not a good earth level (e.g.: masonry structures), terminal 1 of the aerial can be earthed to obtain a wider range of action; this

is clearly advantageous if the quality of the earth connection is good and it is located in the immediate vicinity. Good results can be obtained, however, by using an 18 cm long piece of wire, mounted horizontally and connected to terminal 2 of the aerial input, as an aerial.

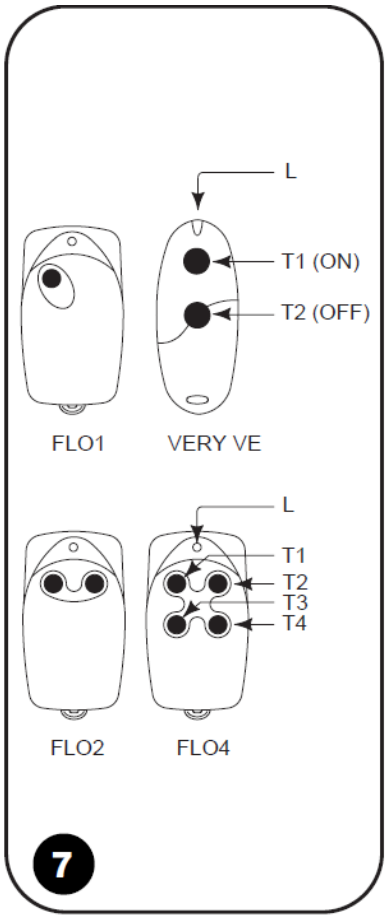
Installation: Transmitters

Entering the code for the FLO series: Open the transmitter (fig.13) and move the 10 dip switches in order to obtain the same combination as the receiver.

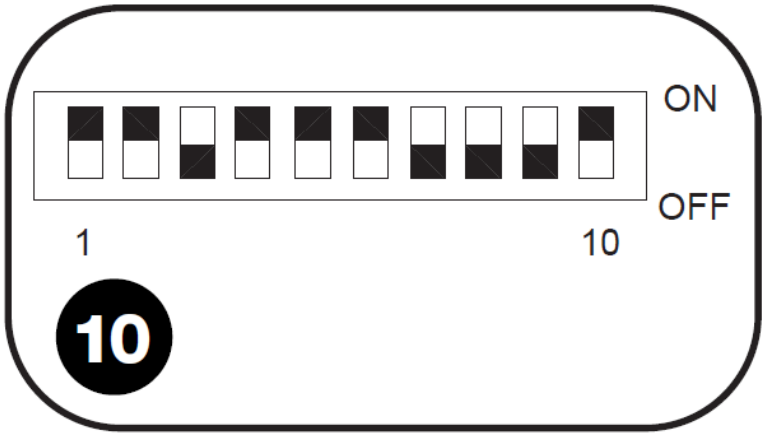


Entering the code for the VERY VE series: Enter the code with the two transmitter buttons as follows:

1. Press down both buttons on the transmitter until the LED lights up (ref. L fig.7), then start entering the code sequence within 5 seconds.
2. Press button T1 if dip switch 1 on the receiver is ON, otherwise button T2 if this dip switch is OFF (fig.7).



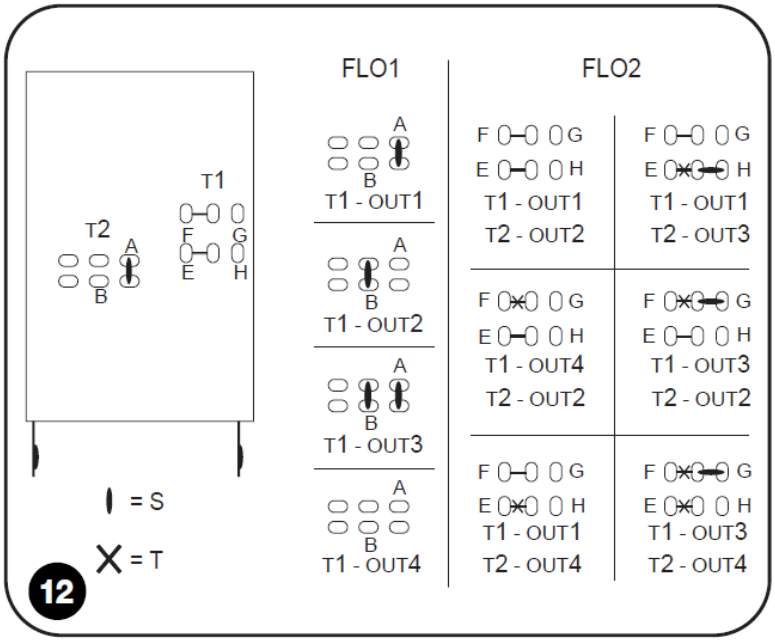
3. Repeat point 2 for all the 10 dip switches of the receiver. The example shown in fig. 10 is obtained with the sequence T1-T1-T2-T1-T1-T1-T2-T2-T2-T1.



4. After the 10th dip switch is entered the LED will start flashing rapidly for 5 seconds. If no button is pressed while the LED flashes, the code will be memorised, otherwise the operation will be cancelled.

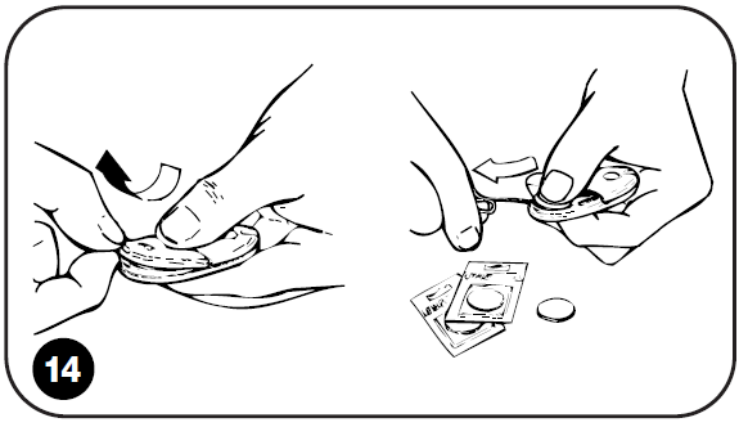
If there is more than one VERY VE's to programme, it may be easier to use the relative CVU programming unit; this can even set up two different codes for the two buttons. Selecting the transmitter buttons. If necessary, the "value" of the buttons in the transmitters can be modified, that is, for example, by pressing button T1 to transmit the button T2 code. For transmitters FLO1 and FLO2 this can be done by cutting point "T" and applying a spot of solder at point "S", as shown in fig. 12. The FLO4 transmitter

cannot be modified. With the VERY VE transmitters selection can only be made by using the relative CVU programming unit.



Maintenance

The receiver is maintenance-free. In the transmitters, instead, if there is a considerable loss of range or if the LED on the VERY VE (ref. L fig.7) transmitters lights up discontinuously, replace the battery. To do this, open the transmitter as shown in figs. 13, 14.



Disposal

This product is made from various kinds of material, some of which can be recycled while others must be disposed of. Find out about recycling or disposal systems in compliance with current by-laws.
Some electronic components may contain polluting substances: do not dump them.

Technical features

Receivers

- Reception frequency : 433.92 MHz
- Power input : 24V or 12V ac/dc ± 10%
  230 Vac ± 10% for FLOXM220
- Sensitivity : < 0.5µV (range 100-150m with ABF- ABFKIT aerial)
- Stand-by/active channel consumption : 15 mA / 35 mA
- Decoding : digital (1024 combinations)
- N° outputs : from 1 to 4 depending on the versions
- Relay contact : max. 0.5A 48V ac/dc.
- Excite / de-excite time : 250mS / 300 mS
- Operating temperature : -10°C +55°C

Transmitters

- Transmission frequency : 433.92 MHz
- Irradiated power : 100 µW
- Carrier frequency tolerance : ± 100 KHz
- Coding : digital (1024 combinations)
- N° buttons : 1, 2 or 4 depending on version
- Operating temperature : -10°C + 55°C
- Dimensions / weight FLO series : 69 x 39 x 15.5 / 31g
- Dimensions / weight VERY VE : 65 x 30 x 10 / 14g

DISPOSAL OF THE PRODUCT


As indicated by the symbol on the left, disposal of this product in domestic waste is strictly prohibited.

CE CONFORMITY DECLARATION

Note – The contents of this declaration correspond to those of the last revision available of the official document, deposited at the registered offices of Nice S.p.a., before printing

of this manual. The text herein has been re-edited for editorial purposes.

- Number: 201/FLOX Revision: 1

Nice S.p.a. – via Pezza Alta, 13, Z.I. Rustignè, 31046 Oderzo (TV) Italy, declare that all products of the FLOX line (FLOX1, FLOX2, FLOXB2, FLOXI, FLOXI2, FLOXM, FLOXM220) conform to the essential requisites specified in the R&TTE 1999/5/EC Directive for the use the devices have been manufactured for. The products are in Class 1.
Oderzo, 2th July 2007

FAQ

What is the power supply requirement for the FLOR Receiver?

The FLOR Receiver can be powered with 12/24 V DC or AC.

How many relay outputs does the FLOR Receiver have?

The FLOR Receiver has 2 relay outputs with normally open contacts.

Documents / Resources

	FLOR FLOX1 Receiver [pdf] Instruction Manual FLOX1, FLOX2, FLOXI, FLOXB2, FLOXI2, FLOXM, FLOXM220, FLOX1 Receiver, FLOX1, Receiver

References

- User Manual

FLOX1, FLOX1 Receiver, FLOX2, FLOXB2, FLOXI, FLOXI2, FLOXM, FLOXM220, Nice,
Nice Receiver

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