

DESCRIPTION

The transmitter transmits information of closed or open contact (present or not present voltage). It can be installed in DIN rail switchboards. Two main control modes are available:

1. State transmitter
2. Central function

Rotating knobs are used for setting of the transmitter.

Voltage (closed contacts) on inputs **A** and **B**, transmitting of the **RF** code and connection of the **EXT** external transmitter is indicated by LED on the front panel.

1. STATE TRANSMITTER

Information of input states are transmitted at every input change. the output relays of the receiver copy the transmitter inputs.

In the state transmitter mode (positions on the right hand side of the knob), use the **MODE** knob to set the number of transmission recurrence and to control two independent receivers, as the case may be.

Use the **N**, **S**, **L** and **F** positions to set transmission recurrence when controlling a single receiver.

N (none) . information of the input state change will be transmitted only once at the moment of the change (no recurrence).

S (short) . information of the input state change will be transmitted at the moment of the change and then two times with delay of 5 s.

L (long) . information of the input state change will be transmitted at the moment of the change and then two times with delay of 3 min.

F (full) . information of the input state change will be transmitted at the moment of the change and then repeated with maximum delay of 10 minutes . **default setting**.

In case two receivers are controlled by a single Tx Signal transmitter, the knob must be set to the appropriate position in the **2 REC** field. (When the initialization code is programmed to the first receiver, first set the **MODE** knob to any of **N**, **S**, **L** or **F** positions. Then set the final **2 REC** position and program the second receiver.)

DELAY and **NR. OF TX** knobs will typically remain in default setting **DELAY** = 0 and **NR. OF TX** = 1 (see CENTRAL FUNCTION).

1.1 COMMISSIONING

1.1.1 Programming of A + B inputs for two-channel receivers, A input for single-channel receivers

1. Set the **MODE** rotating knob to any of the **N**, **S**, **L** or **F** positions.
2. Connect supply voltage (fig. 2).
3. Prepare the selected receiver (chart 1).
4. Program the transmitter to the receiver memory (see operating manual of the appropriate receiver). Use the **INIT** button of the transmitter to transmit the initialization code (fig. 1).

1.1.2 Programming of B input for single-channel receivers

1. Set the rotating knob to any of **2 REC** positions.
2. Prepare the selected receiver.
3. Program the transmitter to the receiver memory (see operating manual of the appropriate receiver). Use the **INIT** button of the transmitter to transmit the initialization code (fig. 1).

The transmitter can ONLY be programmed in ON or OFF function. ON function = concurrent control, i.e. voltage on the transmitter input (closed contact) = closed relay on the receiver output; OFF function = inverted control, i.e. voltage on the transmitter input (closed contact) = open relay on the receiver output.

Notes:

Rx2 and Rx2 N receivers also provide fast programming function (EASY PROGRAMMING) . the A input is programmed to the A channel, the B input is programmed to the B channel. For Rx1 I and Rx1 LT receivers, the transmitter must be programmed in the ON/OFF function.

Inverted control cannot be used for Rx Light 1 (2, R), Rx1 LT, Rx LT R, Rx Time/Element (R), Rx Tango (R), Rx1 I, Rx R I, Rx Door and Rx Pulse receivers.

2. CENTRAL FUNCTION

Transmitter inputs work as common non-locking buttons, i.e. information is transmitted only upon pressing of the button connected to the input (after voltage has been supplied to the input). The transmission of in-

Fig. 1

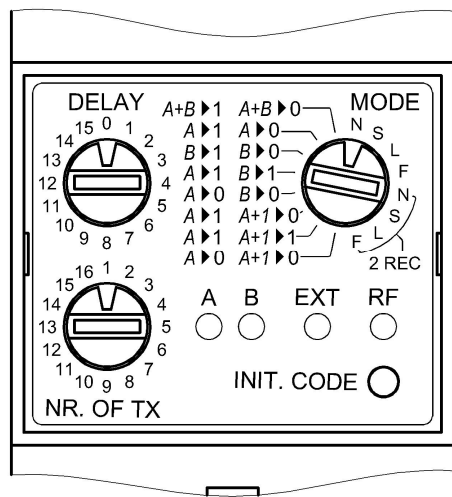
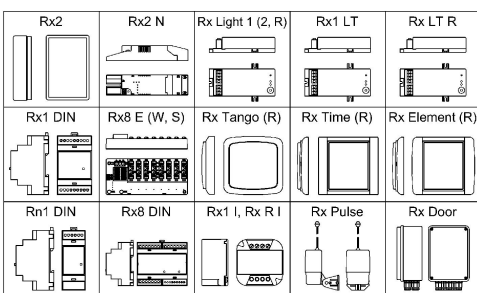


Chart 1



formation of pressing (connection of voltage) is not repeated. Typically, the central function is used for controlling lights, external Venetian blinds, etc.

Reaction of receiver outputs to transmitter inputs is specified by setting of the **MODE** knob in this mode (positions on the left-hand side of the knob) . reaction of receiver outputs to the transmitter **A** input (described by the column above the **A** LED) and to the transmitter **B** input (described by the column above the **B** LED).

A+B 1 A+B 0 . the transmitter **A** input will close both A and B channels of a two-channel receiver. The transmitter **B** input will open both channels.

A 1 A 0 . the transmitter **A** channel will close the A channel on the receiver. The transmitter **B** input will open the A channel on the receiver.

B 1 B 0 . the transmitter **A** channel will close the B channel on the receiver. The transmitter **B** input will open the B channel on the receiver.

A 1 B 1 . the transmitter **A** channel will close the A channel on the receiver, the **B** input will close the B channel.

A 0 B 0 . the transmitter **A** channel will open the A channel on the receiver, the **B** input will open the B channel.

A 1 A+1 0 . the transmitter **A** input will close the A channel on one of receivers, the **B** input will open the A channel on the other receiver.

A 1 A+1 1 . the transmitter **A** input will close the A channel on one of receivers, the **B** input will close the A channel on the other receiver.

A 0 A+1 0 . the transmitter **A** input will open the A channel on one of receivers, the **B** input will open the A channel on the other receiver

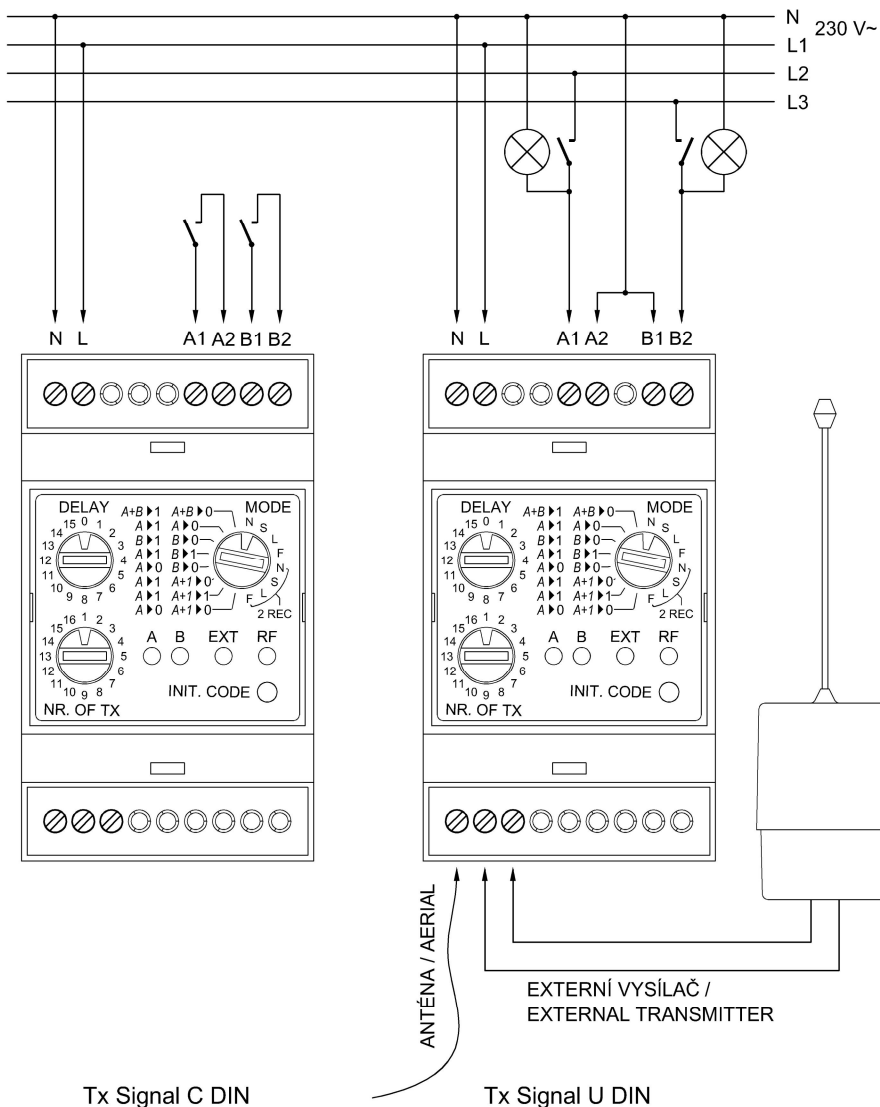
DELAY and **NR. OF TX** knobs are used only in case a single input signal should control multiple state transmitters. For most of applications, these knobs will remain in default setting (**DELAY** = 0, **NR. OF TX** = 1). The **DELAY** knob specifies delay of transmissions in order to avoid interference of individual transmitters. The **NR. OF TX** knob specifies total number of transmitters with common input signal.

2.1. COMMISSIONING

2.1.1 Programming of A + B inputs for two-channel receivers, programming for receivers controlled by the A input

1. Set the **MODE** rotating knob into any of the five positions **not marked** by **A+1**.

Fig. 2



Tx Signal C DIN

Tx Signal U DIN

2. Connect supply voltage (fig. 2).
3. Prepare the selected receiver (chart 1).
4. Select the function for the receiver according to the operating manual of the appropriate receiver.
5. Use the **INIT** button of the transmitter to transmit the initialization code (fig. 1).

2.1.2 Programming for receivers controlled by the B input

1. Set the **MODE** rotating knob into any of the three positions **marked** by **A+1**.
2. Prepare the selected receiver (chart 1).
3. Select the function for the receiver according to the operating manual of the appropriate receiver
4. Use the **INIT** button of the transmitter to transmit the initialization code (fig. 1).

Notes:

The transmitter initialization codes are programmed to the receiver memory in two-button control mode.

The fast programming function (EASY PROGRAMMING) can also be used.

When using Rx Light R, Rx LT R, Rx R I, Rx Tango R, Rx Time/Element R blind control receivers or the Rx Door receiver, use the **MODE A 1 A 0** knob position. The A input will open the blind, the B input will close the blind.

The Rx Pulse receiver can be controlled by both A and B inputs.

WARNING!

Only qualified person can connect (disconnect) the transmitter to (from) the supply voltage and mains.



Power conductors must be separated from aerial and, if external transmitter is used, from connecting cables of the external transmitter!

For Tx Signal C DIN design, input terminals A1, A2, B1, B2 are galvanic-connected with terminals of the aerial and the external transmitter!

In case of problems with operating range, connect Tx Ext external transmitter (fig. 2) or Tx GP + GP 433 aerial (not included).

For examples of setting and programming, see www.enika.cz/aplikace.

Hereby, ENIKA.CZ s.r.o. declares that the Tx Signal C DIN, Tx Signal U DIN, Tx Signal V DIN is in compliance with the basic requirements and other relevant provisions of the Directive 1999/5/ES.

Technická data / Technical data	Tx Signal C DIN, U DIN, V DIN
Napájení / Power supply:	230 V ±10% / 50 Hz
Počet kanálů / Number of channels:	2
Vstup / Input - Tx Signal C DIN:	>5 k ↔ 0 ÷ 1 k 12 V, max. 5 mA DC
Vstup / Input - Tx Signal U DIN:	0 ÷ 30 ↔ 180 ÷ 250 V 50 Hz 48 k
Vstup / Input - Tx Signal V DIN:	0 ÷ 2,5 ↔ 9,5 ÷ 30 V AC/DC 2,2 k
Stupeň krytí / System of protection:	IP 20
Provozní teplota / Operating temperature:	-10 ÷ +55 °C (-10 ÷ +50 °C Tx Signal C DIN)
Připojovací svorky / Terminal block:	max. 2,5 mm ²
Provozní kmitočet / Frequency:	433,92 MHz
Počet kódů / Number of codes:	2 ²⁴ (+2 ³²)*
Zařízení lze provozovat na základě VO-R/10/03.2007-4 a za podmínek v něm uvedených.	
Na zařízení není dovoleno provádět dodatečné technické úpravy! / It is forbidden to do any technical modifications on the device! / *Při použití přijímače s ploucím kódem. Ten je možné ovládat pouze v režimu vysíláče stavu kontaktů v poloze S nebo L. / When a receiver with rolling code is used. This one can be controlled only when state transmitter mode in position S or L is used.	
 	

Prohlášení o shod

Výrobce: ENIKA.CZ s. r. o.
190 00 PRAHA 9, Pod Harfov 933/86
I O: 28218167

tímto prohlašuje, že výrobek

typové označení: Tx Signal C DIN (3299629900)
Tx Signal U DIN (3299629910)
Tx Signal V DIN (3299629920)


specifikace: ---
druh výrobku: p íjma dálkového ovládání

p íjmací frekvence: 433,92 MHz
v í výkon: 10 dBm

- je ve shod se základními požadavky NV 426/2000 Sb. v platném znění
- odpovídá základním požadavk m a dal-ím ustanovením evropské direktivy 1999/5/ES (R&TTE) (Sm řínce o radiových za ízeních a telekomunika ních koncových za ízeních a vzájemném uznávání jejich shody)
- spl íje požadavky t íchto norem a p edpis :
rádiové parametry: SN EN 300220-3:2000
EMC: SN EN 55022-07 ed.2+A1-08, SN EN 61000-3-2:06 ed.3,
SN EN 55024-99 +A1-02+A2-03+Z1-08,
SN EN 61000-3-3:97+Z1-02+A2-06+Z2-07
elektrická bezpečnost: SN EN 60 669-2-1 ed.3:2005 v návaznosti na
SN EN 60 669-1 ed.2:03+A1-03+1:05+2:05
1, 8, 8, 9, 8, 4, 10, 12, 13, 13.2, 13.3, 15, 15.2, 15.3, 16,
17, 20, 20.1, 21, 21.1, 21.2, 21.3, 22, 23, 24, 24.1.1, 26.

Toto prohlášení je vydáno na vyžádání odpov dnost výrobce.

V Nové Pace dne 24.04.2009


ing. Vladimír Milický,
ízení systému jakosti