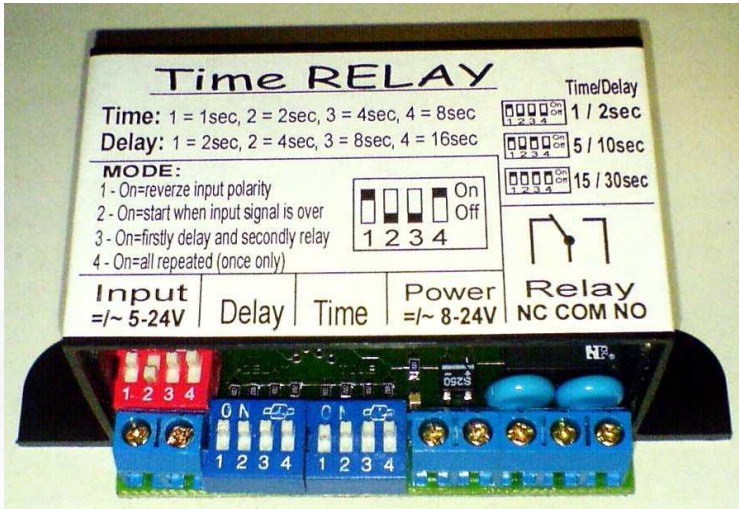




Time RELAY

Additional Time relay



User Guide



Description

Additional Time relay is designed as option for PBX Door phone (UDV). It is designed for more possibilities to control additional electrical locks etc..

The Time relay unit required AC or DC power supply in range 8 – 24V. The input reacts on AC (DC) voltage in range 5 – 24V. This input is galvanically isolated and you can make its setting to react on connected voltage or voltage disconnection. The relay contacts are galvanically isolated from further components. The relay contacts are marked as usually COM=common, NC= normally close and NO= normally open. The setting is done by DIP switch and you can set 4 independent modes (Mode). It is possible to set also the time of relay activation (Time) from 1sec to 15 sec and delay (Delay) from 1sec to 30sec. Activity is indicated by red LED. After power supply connection the red LED flashes a few times (autotest) and during operation lights when relay is active.

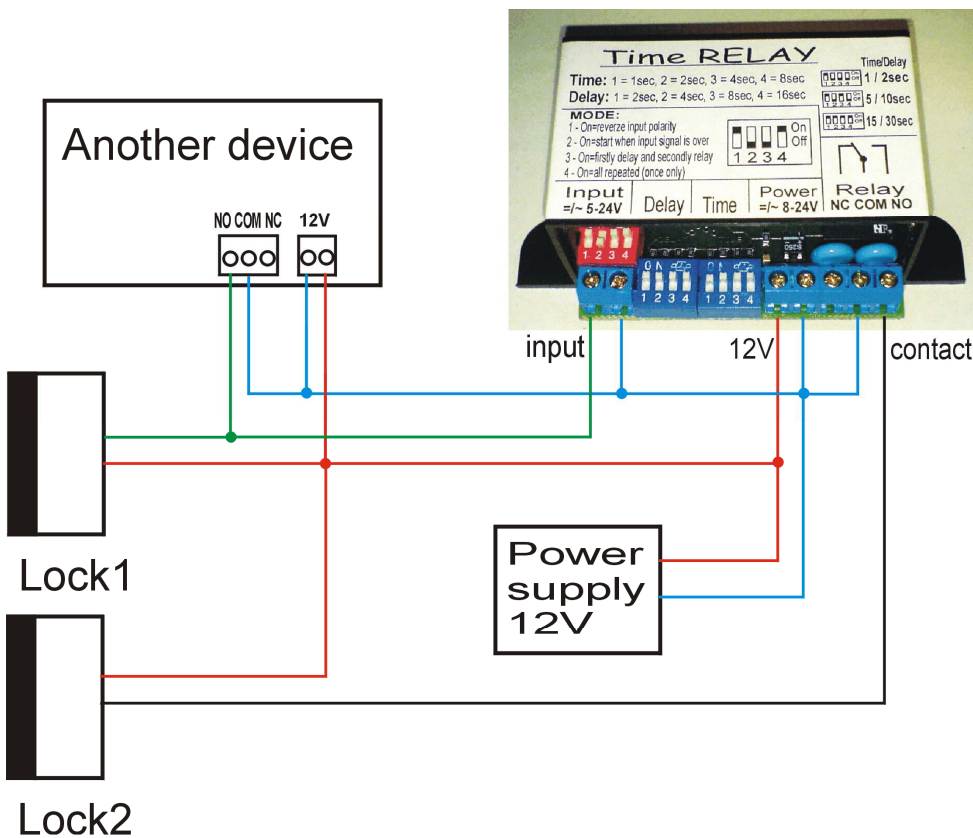
Connection

The connection must be performed without power supply !!!!! to avoid damage to the unit by wire manipulation.

Activation signal is voltage connection or disconnection.

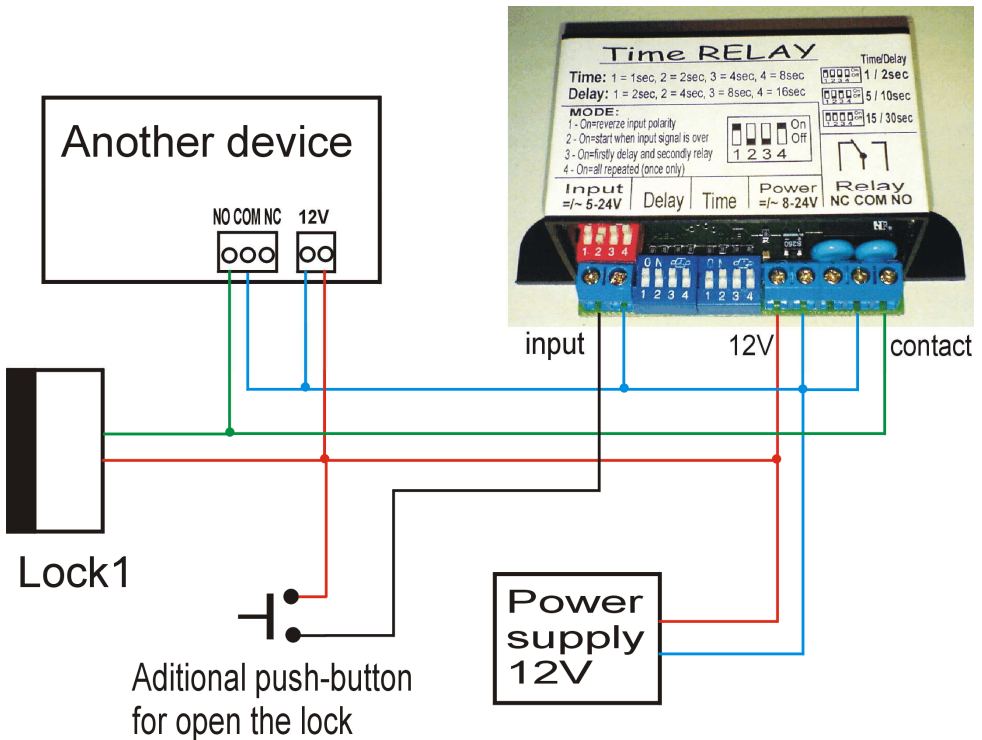
Typically from electrical lock screws controlled already from another device (door phone). You can use the same power supply as for PBX Door phone.

As an example in picture 1 is Time RELAY used for control electrical lock of second doors. By DIP switch MODE is set as follows: 1= Off (normal polarity), 2=On (activated after ending of first door opening – lock1), 3=On (is ordered before closing 2 lock delay), 4=Off (repetition is off). By DIP switch DELAY is set delay between opening first and second lock. By DIP switch TIME is set activation time of second lock.



Picture 1 : Example of next lock connection

The second example of Time relay usage is connection of control button to already existing lock. This button is usually install inside building at entry door and it is used by visitors when they are leaving the building. By DIP switch MODE is set that 1= Off (normal polarity), 2=On (activated after button releasing), 3=Off (delay is not used – open immediatelly), 4=Off (repetition is off). The DIP switch Delay has no sense at this moment. By DIP switch Time is set activation time of lock start by button pressing.



Picture 2 : Example of control button connection to already existing lock

Setting

Setting of modes and times is done by DIP switch. By RED is setting mode and by BLUE time .

Mode (MODE):

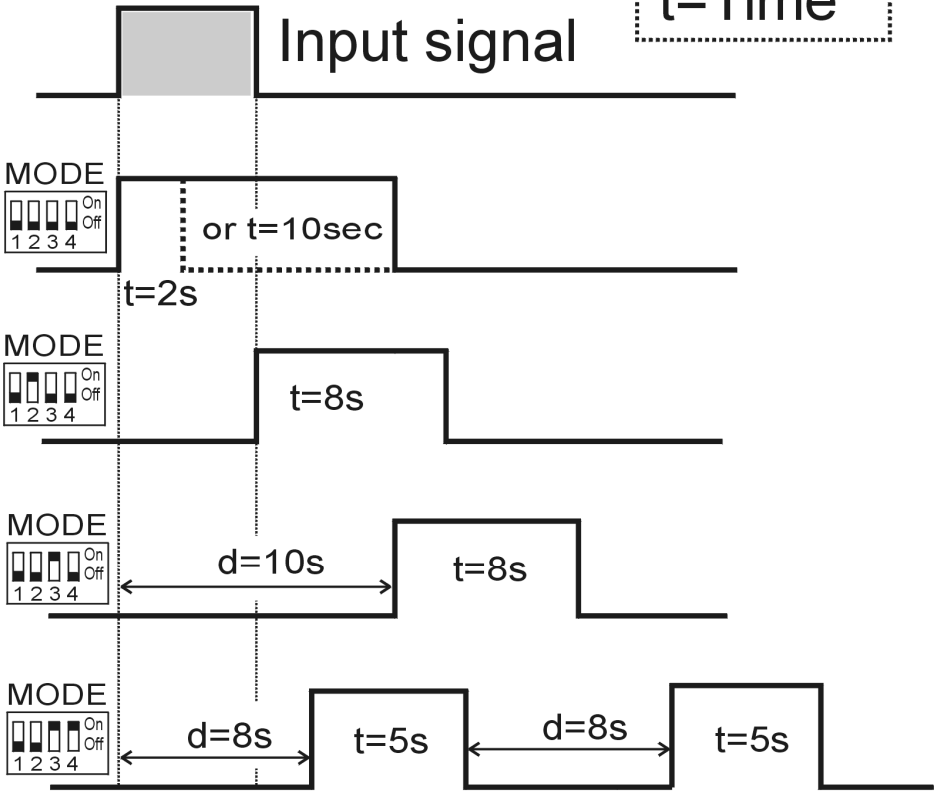
MODE



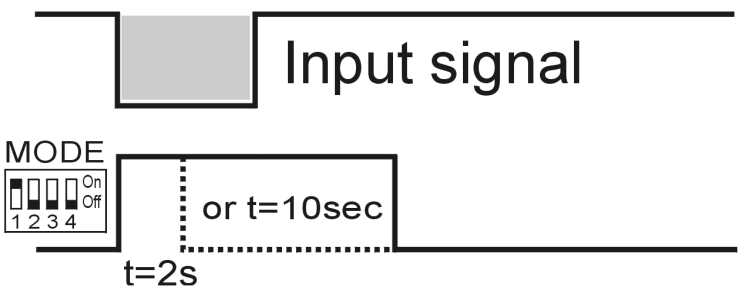
Switch	on	off
1	Reverse input polarity (activated by voltage connection)	normal input polarity (activated by voltage disconnection)
2	React on input change ending	React on input change beginning
3	Closing start after delay (DELAY)	Closing start immediately
4	Closing is 1x repeated (timeout between repetition is always delay time – DELAY)	Closing is done once only

Normal lock

d=Delay
t=Time

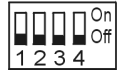


Inverze lock



Picture 3 Time drawing of contact closing in different modes

Time



Time setting (TIME):

switch	combination															
1		x		x		x		x		x		x		x		x
2			x	x			x	x			x	x			x	x
3					x	x	x	x					x	x	x	x
4									x	x	x	x	x	x	x	x
time [sec]	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

x – closed (on)

Delay



Time setting (DELAY):

switch	combination															
1		x		x		x		x		x		x		x		x
2			x	x			x	x			x	x			x	x
3					x	x	x	x					x	x	x	x
4									x	x	x	x	x	x	x	x
time [sec]	1	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30

x – closed (on)

Technical parametres

Input (control) voltage	5÷24V ≈/=
Input impedance	> 2kΩ
Power supply voltage	8÷24V ≈/=
Power supply current	max. 90mA
Contact	48V/1A 24V/2A
Setting closing time	1÷15sec
Setting delay time	1÷30sec
Dimension	65(89) x 46 x 32mm



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