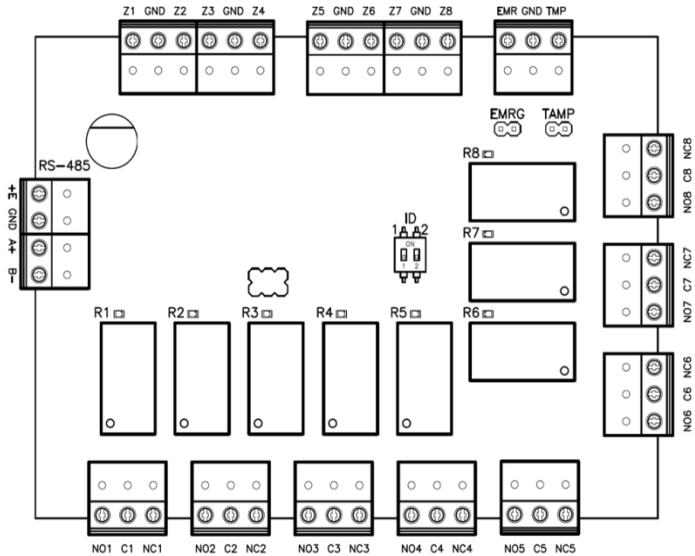


## U-Prox RM relay module

U-Prox RM relay module extends number of relays and outputs of U-Prox access control system control panels.

### Characteristics

- Voltage – 12V -10%/+20%
- Current consumption – 400 mA
- Dimensions – 122x88x20 mm



### Connection

Module's terminals

Terminals		
Terminal	Name	Purpose
Z1 ... Z8	Z1... Z8	Terminals for Loops
GND	GND	
NC1	normally closed	Relay contacts 1
NO1	normally open	
C1	Common	
NC2	normally closed	Relay contacts 2
NO2	normally open	
C2	Common	
NC3	normally closed	Relay contacts 3
NO3	normally open	
C3	Common	
NC4	normally closed	Relay contacts 4
NO4	normally open	

Terminals		
Terminal	Name	Purpose
C4	Common	
NC5	normally closed	Relay contacts 5
NO5	normally open	
C5	Common	
NC6	normally closed	Relay contacts 6
NO6	normally open	
C6	Common	
NC7	normally closed	Relay contacts 7
NO7	normally open	
C7	Common	
NC8	normally closed	Relay contacts 8
NO8	normally open	
C8	Common	
A+	RS-485 A+	Port RS485
B-	RS-485 B-	
GND	RS-485 GND	
E+		+12V power supply
EMR	EMRG	Emergency input
GND	Ground	TMP and EMR common ground
TMP	Tamper	Tamper switch input

## Zones

Zone loops supervised with 2 kOhm end-of-line resistors and have three states: Normal, Opened and Shorted. When all zone loops are in Normal state module waits for relay activation command. When one of zones opened, all relays, activated (de-energized) with previous command, de-activated. When zone shorted, it means the remote activation command and module activates corresponding relay. If zones not used, terminate them with 2 kOhm end-of-line resistors.

## Relays

Relay terminals supervise floor selection buttons' loops.

## TMP and EMR terminals

Connect module case tamper to 'TMP' terminal. Its loop is normally closed.

Connect emergency signal to 'EMR' terminal. Its loop is normally closed. When loop open, all relays de-energized automatically and restore floor selection buttons' loops.

## RS 485 connection

See RS-485 connection schema on Fig. 2.

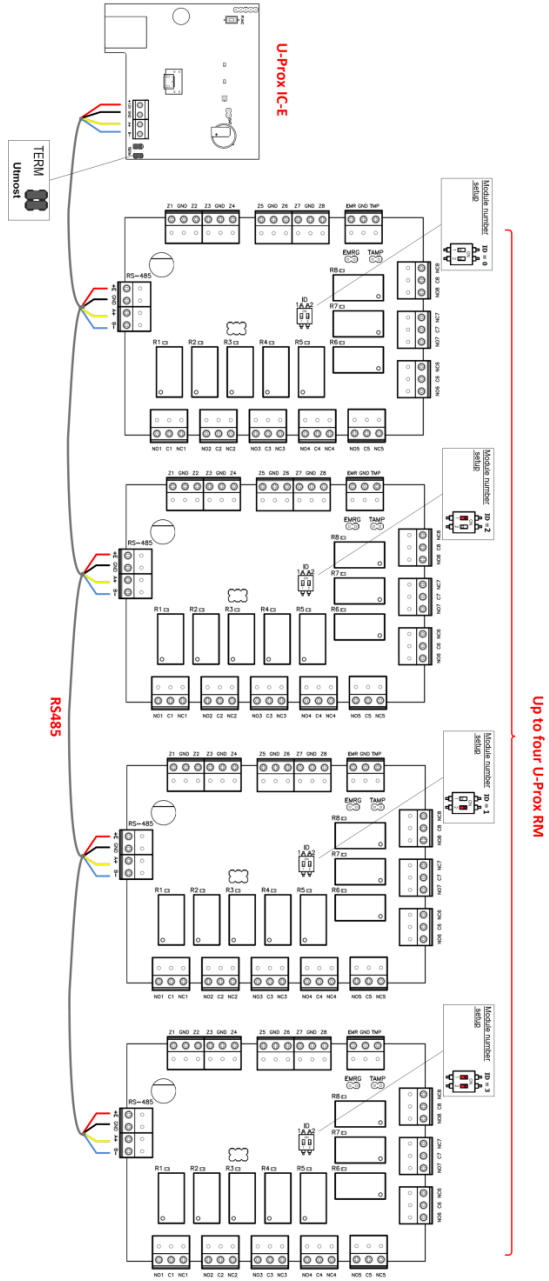


Figure 1. U-Prox RM modules connection schema



Be sure that all modules have different ID's on the bus. Define module ID as depicted in table below:

ID switch # 1 position	ID switch # 2 position	module ID
OFF	OFF	0
OFF	ON	1
ON	OFF	2
ON	ON	3

Pay attention to the fact that U-Prox RM relay module has no terminal resistors for RS-485 bus termination. That is why module cannot situate in utmost position on the bus.

### Power terminal

Use 'E+' terminal and 'GND' terminal from the RS-485 group to connect power wiring to the module. The power source must provide 400 mA current for each U-Prox RM module on the bus.

### Jumpers

Jumpers		
Jumper	Name	Purpose
EMRG	EMRG Disable	Emergency input disable
TMP	Tamper Disable	Tamper switch input disable

'EMRG' and 'TMP' jumpers are in parallel with 'EMR' and 'TMP' terminals respectively. Short them if you will not use corresponding terminal.

### LEDs

LED's		
R1 ... R8	Relay1... Relay8	Relay operation indication relays

R1 ... R8 light emitting diodes indicate the relay actuation. Diode lights when corresponding relay energized.

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Integrated Technical Vision Ltd. warrants that for a period of eighteen months from the date of purchase, the product shall be free of defect in materials and workmanship under normal use and that in fulfillment of any breach of such warranty, Integrated Technical Vision Ltd. shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not damages incurred in shipping or handling, or damages due to causes beyond the control of Integrated Technical Vision Ltd. such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment.

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