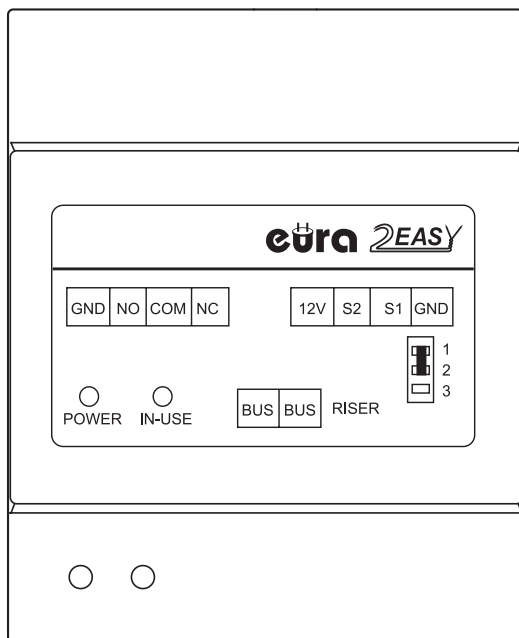




RELAY ACTUATOR MODULE

VXA-70A5

FOR 2-WIRE VIDEO DOORPHONE



User Manual

INITIAL REMARKS

Before assembling, wiring and setting up of device the user should carefully read given manual. In case of any troubles with understanding the content the user should contact the producer. Unassisted assembling and start of the device can be done only with the use of proper tools. However, it is highly advised to set up a device by qualified personnel. The producer is not responsible for damages made during incorrect set-up or maintenance or in case of any unassisted repairs or modifications.

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1. EURA 2 EASY SYSTEM DESCRIPTION

2-wire Eura 2 Easy system is a complete Video doorphone system designed to handle one or more apartments, where the minimum wiring with one centralized power supply drastically simplify and reduces installation time. With only 2 wires throughout the whole installation between each system components and one power supply, the system allows to connect up to 128 indoor monitor units and 4 outdoor video doorphone stations. By means of FM video modulation and ASK data transmission technology, system provides better protection against interference and, therefore, guarantees best quality at all points of the installation.

System main features:

- with only 2 wires (no polarity) throughout the whole installation, the 2-wire system is a simplified installation system with minimum wiring and powerful features,
- centralized power supply for the entire system - with advanced power management, the whole system uses only one power supply,
- use Plug-in connectors and DIP switchers for rapid installation,
- multi Monitors for one apartment/house in same User Code, and automatically switching the video, what is more, all types of two wires monitors and door stations are compatible with each other,
- except for traditional dual talking, it offers a selective intercom (point to point) as a unique advantage for room-room talking,
- connection of external units up to 150 meters from the monitors.

The system can be upgraded to use 2 independent electromagnetic-locks. It is possible to connect additional outdoor video doorphone and an additional chime bell, as well as to connect additional module to control lighting or other devices triggered by a relay.

In addition, there is the possibility of controlling the system remotely by mobile phone. This requires a special VXA-48A5 telephone module or VXA-62A5 GSM module, which is connected to the 2-wire Eura 2 Easy system.

The purpose for those modules is to redirect calls from the outdoor video doorphone to the specified user telephone numbers. Detailed descriptions of the modules are subject for separate manuals.

2. DEVICE CHARACTERISTICS

VXA-70A5 is a special module fully compatible with the 2-wire Eura 2 Easy system, extending the functionality of the system with the possibility of operating a second electric-lock / gate or lighting control. The module also allows handling of high-current electric-lock and releasing the lock by pressing the exit button (when leaving the place).

3. DEVICE CONSTRUCTION

Fig. 1 presents elements of VXA-70A5. Ports, LED indicators and DIP switch settings are described in tab. 1.

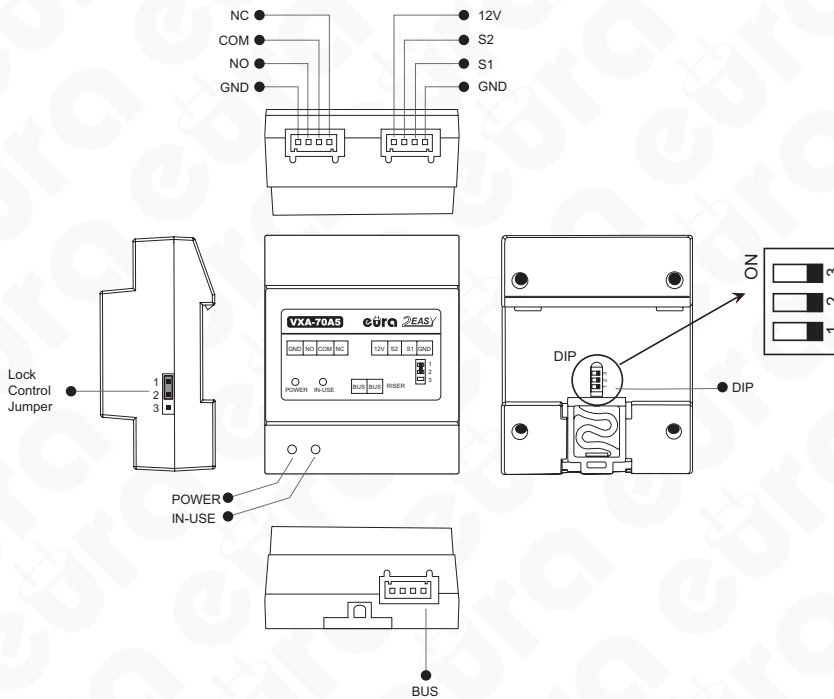


Fig. 1. Construction of VXA-69A5

	Item	Description
Interface	+12V+	12V power output - can be used to power the lock
	S2	Used to set electric-lock release time or how long the light should be turn on.
	S1	Exit button contact - short this contact and the GND to unlock or control light
	GND	The common Ground of the other 3 contacts: S1, S2 and +12V
	NC	The normally-closed contact to COM
	COM	The common contact of the unlock/light relay
	NO	The normally-open contact to COM
Port	BUS	Connect to the Eura 2 Easy bus line, no polarity
Jumper	Lock Control Jumper	To select the lock type (see chapter 8).
DIP switches	DIP	Used for setting the address of the VXA-70A5 (see chapter 7)
LED indicators	POWER	Working indicator, it will light up when plugged in power supply
	IN-USE	Unlock/light indicator, it will light up when unlock (or turn on the light)

Tab. 1

4. INSTALLATION

Fig. 2 shows installation of VXA-70A5 on DIN Rail (this module can be mounted on the wall too).

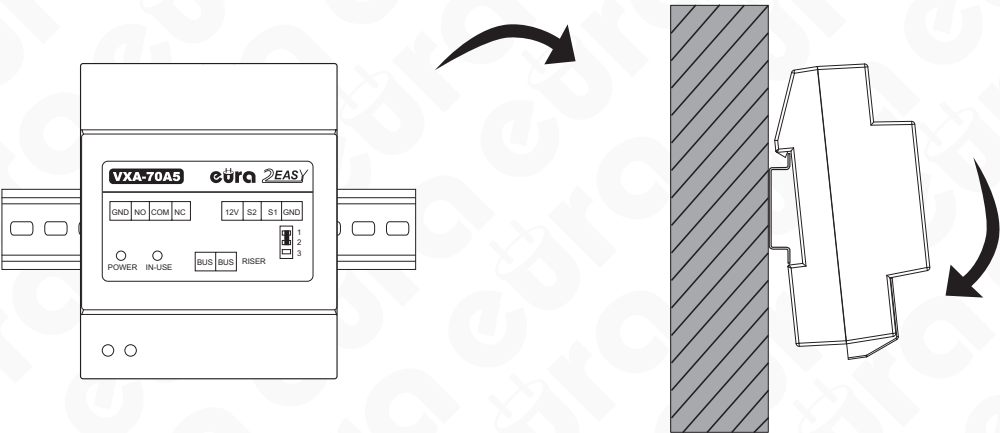


Fig. 2. VXA-70A5 installation

5. SETTING THE VXA-70A5 MODULE

The VXA-70A5 in default is set to run the additional electric-lock. It is possible to change the mode of operation of the module to light control mode. To switch the module between modes, turn off the power to the VXA-70A5 and perform the following procedure:

- 1. Set the DIP switch to the following positions: DIP1=ON, DIP2=ON, DIP3=OFF,
- 2. Short the terminals S1 and GND,
- 3. Turn on the module power,
- 4. Four times change the position of the DIP1 switch.

The IN-USE LED will indicate the selected mode of operation of the module:

- 1 blink: Lighting control mode,
- 2 blinks: Additional electric-lock control mode.

When the settings are complete (no action for 5 seconds), the module will automatically restart. Then set the DIP switches according to the selected module operating mode (table 2 or table 4).

NOTE









The setting state is valid within 5 seconds, more than five seconds without any operation, it will exit the setting mode automatically (additional after first run, if there will be no action the device will stay in default mode - additional electric-lock standard setting).

6. UNLOCK TIME

In order to determine the electric-lock release time, the S2 and GND must be shorted for 3 seconds in the first 5 seconds, until the IN-USE LED lights up. Then shorten the S1 and GND contacts for 3 seconds until the IN-USE LED is on. The last step is to short the S2 and GND for the time in seconds, corresponding to the delay time (max. 30 seconds). The blinking IN-USE LED blinks once per second. Removing the shorted connection will save the settings and exit the settings.

7. DIP SWITCH SETTING FOR LOCK

The DIP switch on the back of the module housing is designed to set the address. Table 2 show a list of settings for the individual components of the kit.

DIP	
Description	Applies to outdoor video door-phone 1 & electric-lock 1
	
	Applies to outdoor video door-phone 1 & electric-lock 2
	
	Applies to outdoor video door-phone 2 & electric-lock 1
	
	Applies to outdoor video door-phone 2 & electric-lock 2
	
	Applies to outdoor video door-phone 3 & electric-lock 1
	
	Applies to outdoor video door-phone 1 & electric-lock 2
	
	Applies to outdoor video door-phone 4 & electric-lock 1
	
	Applies to outdoor video door-phone 4 & electric-lock 2

Tab. 2

8. LOCK CONTROL JUMPER

The lock control jumper is located on the right side of the module housing. Its position should be adjusted to the maximum current consumption of the electric-bolt for which the set will be extended (see table 3).

Jumper	Max. Power Consumption	Power supply type
<div>1 2 3</div> <div></div>	<450 mA	Internal
<div>1 2 3</div> <div></div>	<450 mA	Internal

Tab. 3

The VXA-70A5 can supply a max. current consumption not exceeding 450 mA. If you use a electric-bolt with higher current consumption, use an external power supply and connect it as shown in fig. 4.

9. WIRING DIAGRAM

9.1. WIRING DIAGRAM FOR ADDITIONAL ELECTRIC-LOCK (WITHOUT ADDITIONAL SOURCE)

Fig. 3 show the diagram of connecting an additional electric-bolt, powered by the VXA-70A5 module. Please note that the jumper setting in position 1-2 (see table 3) and that the system device addresses are set via the DIP-switch (see table 2).

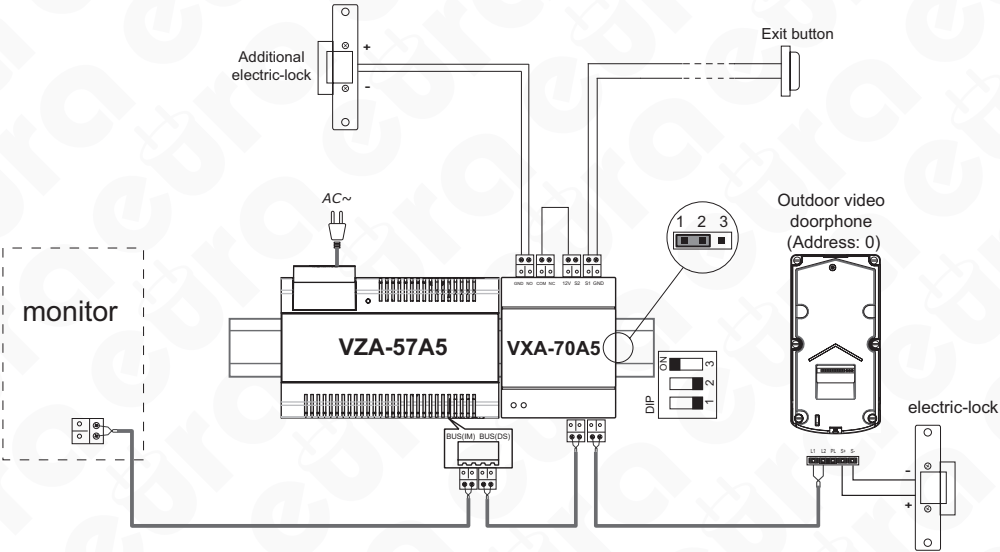


Fig. 3. Wiring diagram

9.2. WIRING DIAGRAM FOR ADDITIONAL ELECTRIC-LOCK (EXTERNAL POWER SOURCE)

The diagram for connecting an additional electric-lock connected to an external power source is shown in fig. 4. Please note that the jumper setting is in position 2-3 (see table 3) and that the system device addresses are set via the DIP switch (see table 2).

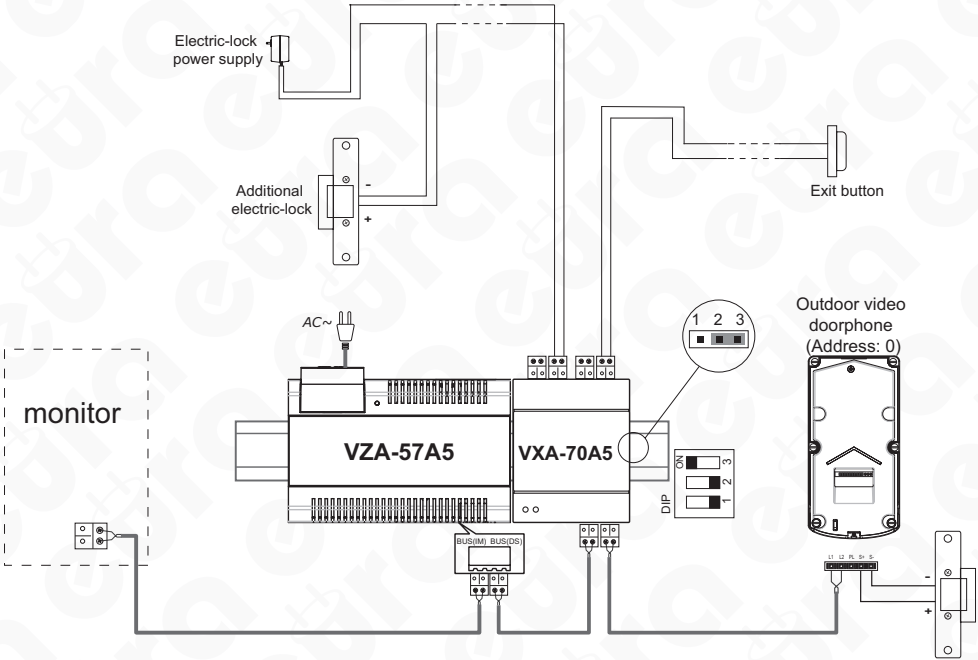










Fig. 4. Wiring diagram

10. LIGHT WORKING TIME

In order to determine the lighting time, the S2 and GND must be shorted for 3 seconds in the first 5 seconds, until the IN-USE LED lights up. Then shorted the S1 and GND contacts for 3 seconds until the IN-USE LED is on. The last step is to short the S2 and GND for a time in seconds, where 1 second corresponds to 30 seconds of illumination (up to 30 seconds - 15 minutes) - the blinking IN-USE LED blinks once per second. Removing the shorted connection will save the settings and exit the settings.

11. DIP SWITCH SETTING FOR LIGHT CONTROLLING

The DIP switch on the back of the module housing is designed to set the address. A list of lighting control settings for each VXA-70A5 module is provided in tab. 4.

DIP	Descriptions
<div>ON</div> <div></div> <div>1 2 3</div>	Set to the first VXA-70A5
<div>ON</div> <div></div> <div>1 2 3</div>	Set to the second VXA-70A5
<div>ON</div> <div></div> <div>1 2 3</div>	Set to the third VXA-70A5
<div>ON</div> <div></div> <div>1 2 3</div>	Set to the fourth VXA-70A5
<div>ON</div> <div></div> <div>1 2 3</div>	Set to the fifth VXA-70A5
<div>ON</div> <div></div> <div>1 2 3</div>	Set to the sixth VXA-70A5
<div>ON</div> <div></div> <div>1 2 3</div>	Set to the seventh VXA-70A5
<div>ON</div> <div></div> <div>1 2 3</div>	Set to the eight VXA-70A5

Tab. 4

12. WIRING DIAGRAM TO CONNECT LIGHT

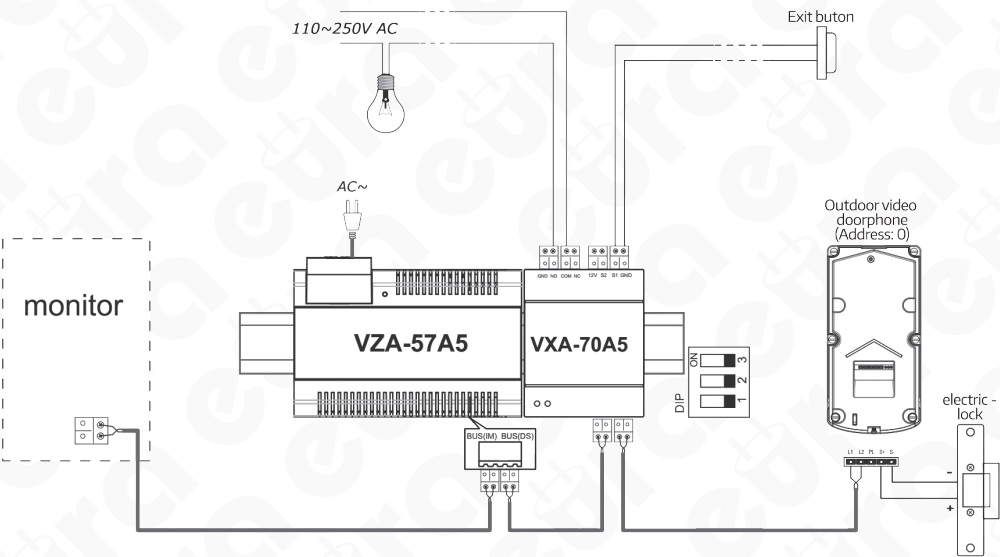


Fig. 5. Wiring diagram

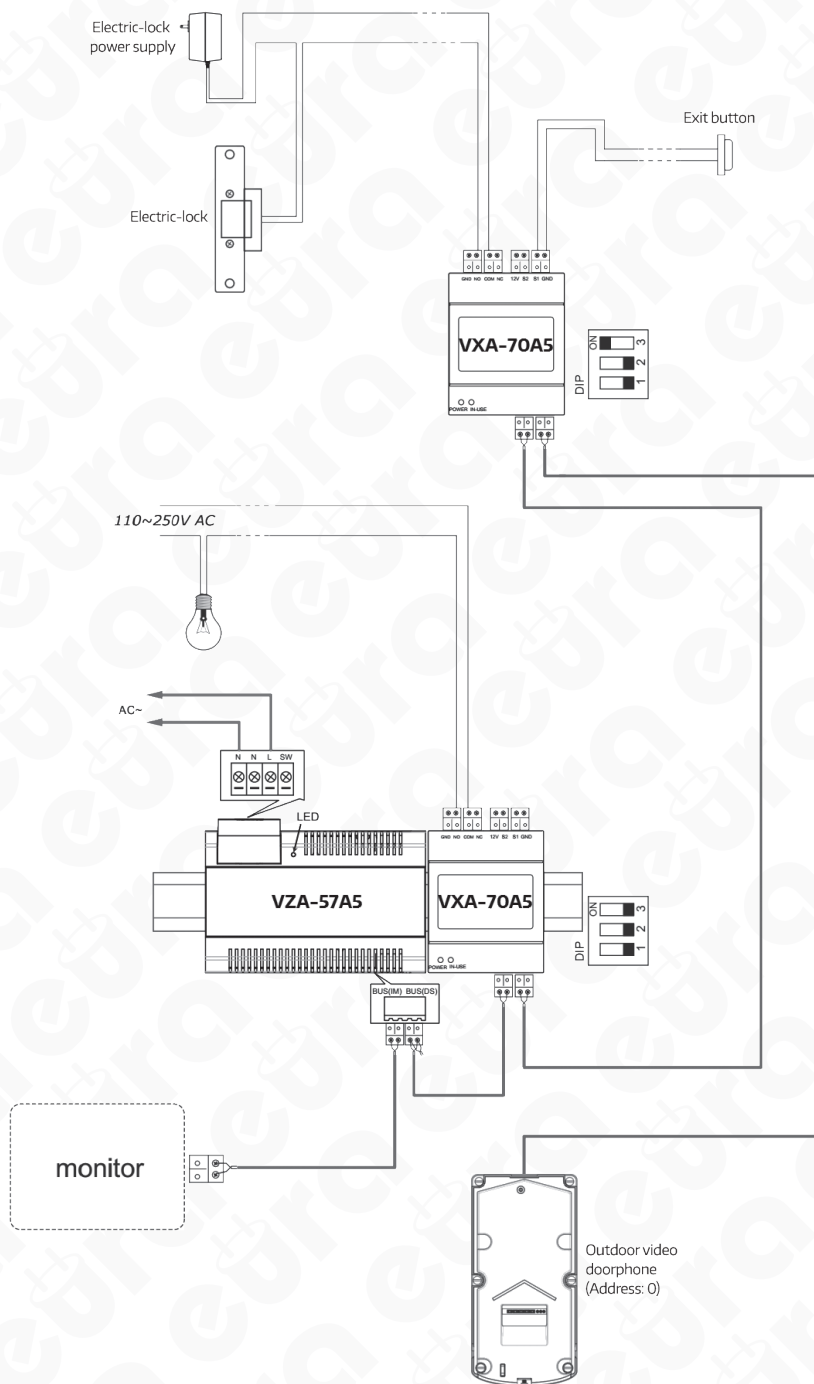


Fig. 6. Wiring diagram

13. TECHNICAL DATA

Power supply	24V DC
Electric-lock power supply	12V DC, 450mA
Power consumption (standby / working)	0,38W / 1,08W
Rated Input Current	7A
Working temperature	-10°C...+40°C
Wiring	2 (non-polarity)
Waterproof rating	IP20
Dimensions (H x W x D)	89 x 71 x 45 (mm)

EU Conformity Declaration of this device is available on
<http://www.eura-tech.eu> website



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