SPECIFICATIONS

BRAND NAME: ZELLER
PRODUCT NAME: ZMIX24 - Actuator 24 Channel 16A
MODEL NO: ZA24/16A
Body Material: ABS
CERTIFICATION: RoHS
FIRE RESISTANCE LEVEL: UL94V-0
APPLICABLE TEMPERATURE: -25° ~ +60 °c

FEATURES

- 6 different configurable blocks: shutter channels (up to 12), individual outputs (up to 24) and 2 pipe fan coil control (up to 6)
- Outputs suitable for capacitive loads, maximum 140 µF
- Manual output operation with push button and LED status indicator
- 24 Master Light controls
- PID compressor sequence
- Output timing and protecting delay
- Total data saving on Z-BUSfailure
- Dimensions 64 x 90 x 212 mm (12 DIN units)
- DIN rail mounting according to IEC 60715 TH35, with fixing clamp
- Possibility of connecting different phases in adjacent outputs

Programming

• Manual Ch. Pairing Programming Each Channel to a Button on Wall Panels.
• Advanced Software Configuration & Programming

This device consists of two parts (2 x 12 channels relay) each one should be considered separately in search and programming with advanced software:

A) SB_RLY12C10A_DN(1)
B) SB_RLY12C10A_DN(2)

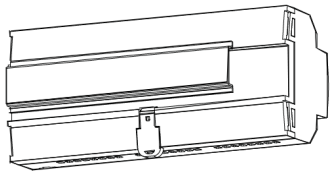


Figure 3: *Mounting ZMIX24 on DIN rail*

Multifunction actuator with 24 outputs (16A)

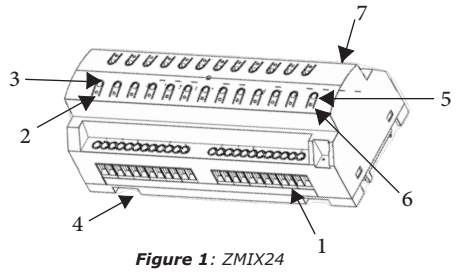


Figure 1*: ZMIX24*

1. Outputs
2. Output status LED
3. Output control button
4. Fixing clamp
5. Programming/Test button
6. Programming/Test LED
7. BUS connector

Control IO

Advanced RS485 Z-BUS serial port links (both train & screw link types)

Upgrade IO

3*2 pin header port (to connect to special programming board)

Internal protection

protecting Delay 0~60 min
startup delay 0~25 sec
BUS Rv. polarity Protection
BUS Short Circuit Protection

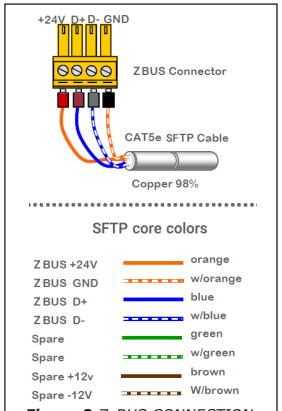
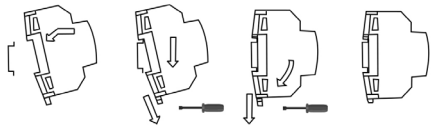
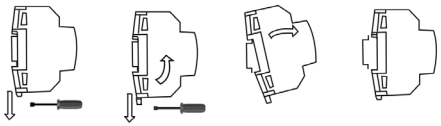


Figure 2*:Z-BUS CONNECTION*

Attaching ZMIX24 to



Removing ZMIX24 From



WIRING DIAGRAMS

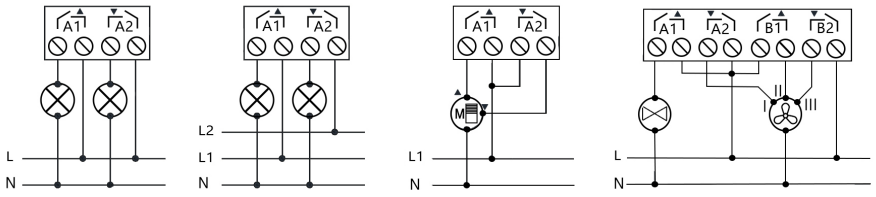


Figure 4: *Wiring example (from left to right): 2 loads, 2 loads connected to different phases, shutter and fan coil*

⚠ In order to ensure the expected status of the relays, please check that the device is connected to the Z-BUS before turning on the power circuit.

GENERAL SPECIFICATIONS

Concept		Description
Type of device		Electric operation control device
Z-BUS Supply	Voltage (typical)	24 VDC SELV
	Voltage range	15 ~ 32 VDC
	Maximum consumption	24 VDC (typical) - 15mA-360mW
	Connection type	Z-BUS Phoenix Connector 3.81 mm (4pin) for cat5e cable
External power supply		Required
Operation temperature		0 ~ +55 °C
Storage temperature		-25 ~ +60 °C
Operation humidity		5 ~ 95%
Storage humidity		5 ~ 95%
Complementary characteristics		Class B
Protection class / Overvoltage category		II / III (4000 V)
Operation type		Continuous operation
Electrical stress period		Long
Degree of protection / Pollution degree		IP20 / 2 (clean environment)
Installation		Independent device to be mounted inside electrical panels with DIN rail (IEC 60715)
Minimum clearances		Not required
Response on Z-BUS failure		Data saving according to parameterization
Response on Z-BUS restart		Data recovery according to parameterization
Operation indicator	Continues	The programming LED indicates
	Blinking	Normal mode
Weight		630 gr
PCB CTI index		175 V
Housing material / Ball pressure test temperature		PC FR V0 halogen free / 75 °C (housing) - 125 °C (connectors)

OUTPUTS SPECIFICATIONS AND CONNECTIONS

Concept		Description
number of outputs		24
Output type / Disconnection type		Potential-free outputs through bistable relays with tungsten pre-contact / Micro-disconnection
Rated current per output		AC 16A @ 250 VAC (4000 VA)
Maximum load per output	Resistive	4000 W
	Inductive	1500 VA
Maximum inrush current		750 A/10 ms 165 A/20 ms
Connections in adjacent outputs		Possibility of connecting different phases. It is not allowed to connect power supplies of different order, SELV with NO SELV, in the same block.
Maximum total load		384 A Total load of all channels
Short-circuit protection		No
Overload protection		No
Connection method		Screw terminal block (0.5 Nm max.)
Cable cross-section		1.5 ~ 4 mm² (IEC) / 26 ~ 10 AWG (UL)
Outputs per common		1
Maximum response time		20 ms
Mechanical lifetime (min. cycles)		3 000 000 (Lifetime values could change depending on the load type)
Relays type		Latching relay

SAFETY INSTRUCTIONS AND ADDITIONAL NOTES

• Installation should only be performed by qualified professionals according to the laws and regulations applicable in each country.
• Do not connect the mains voltage nor any other external voltage to any point of the Z-BUS; it would represent a risk for the entire Z-BUS system. The facility must have enough insulation between the mains (or auxiliary) voltage and the Z-BUS or the wires of other accessories, in case of being installed.
• Once the device is installed (in the panel or box), it must not be accessible from outside.
• Keep the device away from water (condensation over the device included) and do not cover it with clothes, paper or any other material while in use.