

## Technical Sheet For Multifunctional Actuator, 24-Fold

LC-AMF2410



The worldwide STANDARD for home and building control

### CHARACTERISTICS

The device can set max. 24 ch switch outputs, 12 ch AC curtain outputs. 6 ch DC curtain outputs, 6 ch fan control outputs or 6 ch valve control outputs. The output requirements are configured via parameter.

- Switch output: connect some electrical loads, such as lighting, sockets. All channels have the function of general switch, staircase lighting, light flashing and switch delay, scene, operation hours counter, logic and force operation;
- Curtain output(AC/DC): connect with motor blinds, awnings, roller blinds, vertical blind, etc. With operating shutter and slat adjustment, automatic sun protection, scene and safety operating etc.;
- Fan control: support up to three level fan speed, with general operation, forced operation, Auto. operation and status response etc.;
- Valve control: connect with 2pipes or 4pipes system, support three valve control types: 3point, open and close, continuous, PWM and 2state-ON/OFF, and support disable/enable HEAT and COOL, valve status response, valve purge etc..

### PARAMETERS

Power	Bus voltage	21-30V DC, via the KNX bus
Supply	Bus current	<12mA
	Bus consumption	<360mW
	Capacitor charge current	<20mA
Output	U <sub>n</sub> rated voltage	230V AC(50/60Hz), 30V DC
	I <sub>n</sub> rated current capacity	10A/105uF(max.200W,if LED load)
	Inrush current	300A/2ms
	Max. switching current	20A/250V AC
	Mechanical endurance	>10 <sup>6</sup>
	Electrical endurance	>5 x10 <sup>4</sup>
Connection	KNX	Bus connection terminals(Red/Black)
	Outputs	Screw terminals, Wire Range
		Multi-core 0.2-2.5mm <sup>2</sup>
Single core 0.2-4.0mm <sup>2</sup>		
		Torque 0.8N-m

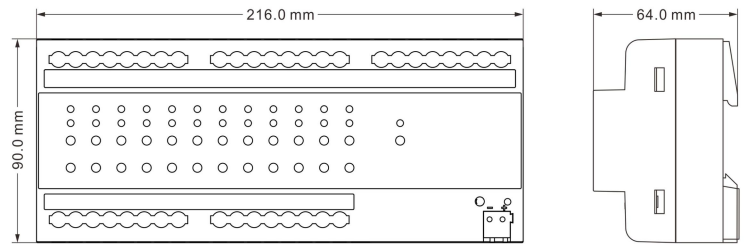
Operation and display	Programming button and Red LED	For assigning the physical address
	Green LED flashing	For displaying application layer running normally
Manual button	Switch output	
Output LED	Indicate the output states	
Man./Auto. button	Switch the Man. and Auto. mode	
Man./Auto. LED	Indicate the Man./Auto. mode state	

Temperature	Operation	-5 °C ... + 45 °C
	Storage	-25 °C ... + 55 °C
	Transport	- 25 °C ... + 70 °C

**Environment** Humidity <93%, except dewing

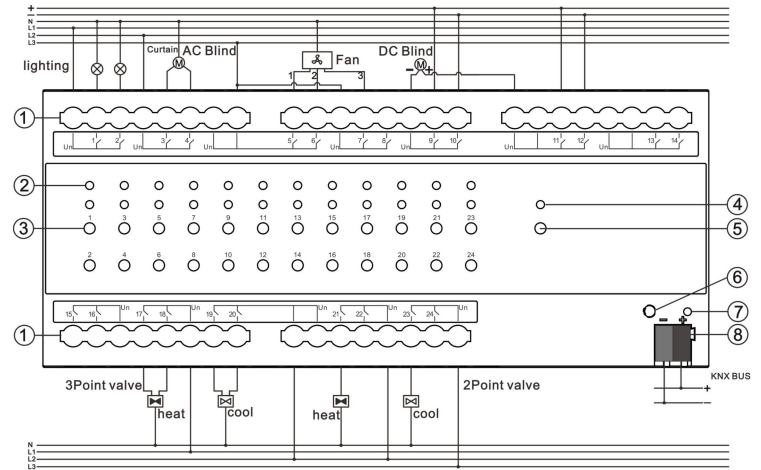
**Mounting** On 35mm mounting rail

### DIMENSIONS



Model	Dimension	Weight
LC-AMF2410	216×90×64mm(±0.5)	0.7kg

### DESCRIPTIONS



① **Output terminals:** the above icons show the wiring method for per control output.

②③ **Manual operation buttons and status indicating LED for outputs.**

The LED above the button indicates the corresponding output of state.

**Take four outputs as an example:**

**For switch,** the LED on is closed, off is open.

**For curtain AC/DC,** to move the curtain via a long operation, and slat adj./stop via a short operation. When curtain is running, the LED will flash; If both of blinds and slat arrive at min. or max. position, the LED will be on. (For curtain DC, the button and LED (3)&(4) are not used.)

**For fan control,** button&LED(1) are used to control and indicate for fan speed1; button&LED(2) are used for fan speed2; button& LED(3) are used for fan speed3. Via any button can switch off the fan in fan ON. And the button&LED(4) are not used.

**For valve control,** In 2pipes button&LED(1) are used to switch on/off and indicate for valve, and button&LED(2) are not used. In 4pipes button&LED(1) are used to switch on/off and indicate for heat valve and button&LED(3) is for cool valve, and button and LED(2)&(4) are not used.

④⑤ Man./Auto. operation switch button and status indicating LED

⑥⑦ Programming button and LED

⑧ KNX bus terminal

### INSTALLATION FIGURE

The devices are suitable for installation on the distribution boards with 35mm DIN rail which complies with DIN EN 60715 in order to facilitate quick installation of the device. Must ensure that the device operation, test, detecting, maintenance correctly.

### IMPORTANT INFORMATION

Installation and commissioning of the device may only be carried out by trained electricians. The relevant standards, directives, regulations and instructions must be observed when planning and implementing the electrical installation.

●Protect the device against moisture, dirt and damage during transport, storage and operation!

●Do not operate the device outside the specified technical data (e.g. temperature range)!

●The device may only be operated in closed enclosures (e.g. distribution boards). Should the device become soiled, it may be cleaned with a dry cloth. If this does not suffice, a cloth lightly moistened with soap solution may be used. On no account should caustic agents or solvents be used.