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SAE-2410

Switch Actuator Extension 24x10A Datasheet

1. DESCRIPTION

The Universal KNX Actuator System is a fully modular actuator system where extension modules can be plugged-in to extend the number of channels as needed. Up to 72 channels can be combined for switching, shutter or blind, heating, dimming, analog 0-10V or LED drivers with various size and power.

Up to 8 extension modules can be added to the master actuator. Depending on the extension type, you are able to drive **up to 72 outputs** with the actuator system using a **single KNX interface**.

The SAE-2410 extension module has 24 channels (A to X) to drive 230 V AC electrical loads. Each channel can be configured as a switching actuator or a shutter actuator.

Each channel can drive resistive electrical loads of 500W or inductive loads of 250W (motors).

CAUTION : A single voltage must be used for all outputs (230VAC or Low voltage). No voltage mix on the same extension !

Extension modules are mounted on the right side of the master actuator, on the same DIN-rail using the provided side connector.

A maximum of 1 module SAE-2410 can be used on a master actuator. Other types of extensions can be combined.

In ETS, select the following extension type:

Switch Actuator 24-fold

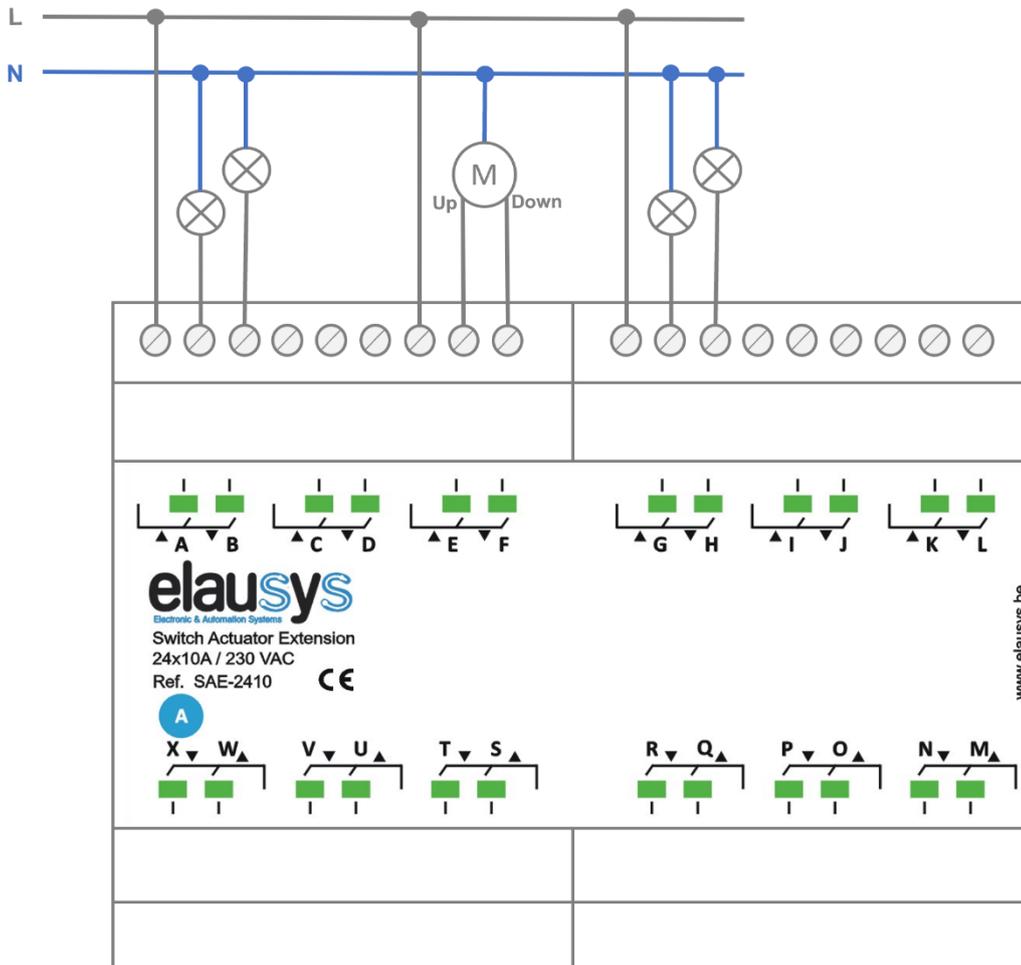
See MSA-810 User Manual for detailed features of each channel for this type of extension.

Note that this extension uses three extensions in the ETS configuration to configure the 24 channels, the first extension is used for the first 8 channels (A-H), the second for channels (I-P) and the third one for the last 8 channels (Q-X).

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2. CONNECTION

For each group of two relay outputs there is a common terminal for power supply. The first terminal is to connect the main phase from the circuit breaker distribution, the second and third terminals are to connect the loads. See below the example of two lights connected to channel A and B. When connecting a shutter/blind, two consecutive channels must be used (Up and down), the main phase from the circuit breaker is connected to the first terminal of each channel, the second terminal of the "Up" channel is connected to the motor phase for upward direction, the third terminal, for the "Down" channel, is connected to the motor phase for downward direction. See the example below of channels E and F used to drive a shutter/blind motor.



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3. TECHNICAL DATA

DESCRIPTION	VALUES
Power supply	Internally from master actuator
Operating temperature	0 to + 45°C
Enclosure	IP20
Dimensions (Space Units)	6SU
Switching outputs	24
Output rated voltage	230 VAC CAUTION : A single voltage must be used for all outputs (230VAC or Low voltage). No voltage mix on the same extension !
Rated resistive load	500W
Rated inductive load (motors,...)	250W
Output life expectancy (mechanical)	10.000.000
Max. total current of the actuator	25A
Screw terminal section	2,5mm ²
Torque screw terminal	0,5Nm
Max. extension modules	8
Max. SAE-x10 extensions	Max. 40 channels 10A (Combined on MSA-810 / SAE-410 / SAE-810 / SAE-1210 / SAE-2410)
Max. number of channels	72
Available application software	ETS5