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# SAE-816

## Switch Actuator Extension 8x16A 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-816 extension module has 8 channels (A to H) to drive 230 V AC electrical loads up to 16A. Each channel can be configured as a switching actuator or a shutter actuator.

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

In ETS, select the following extension type:

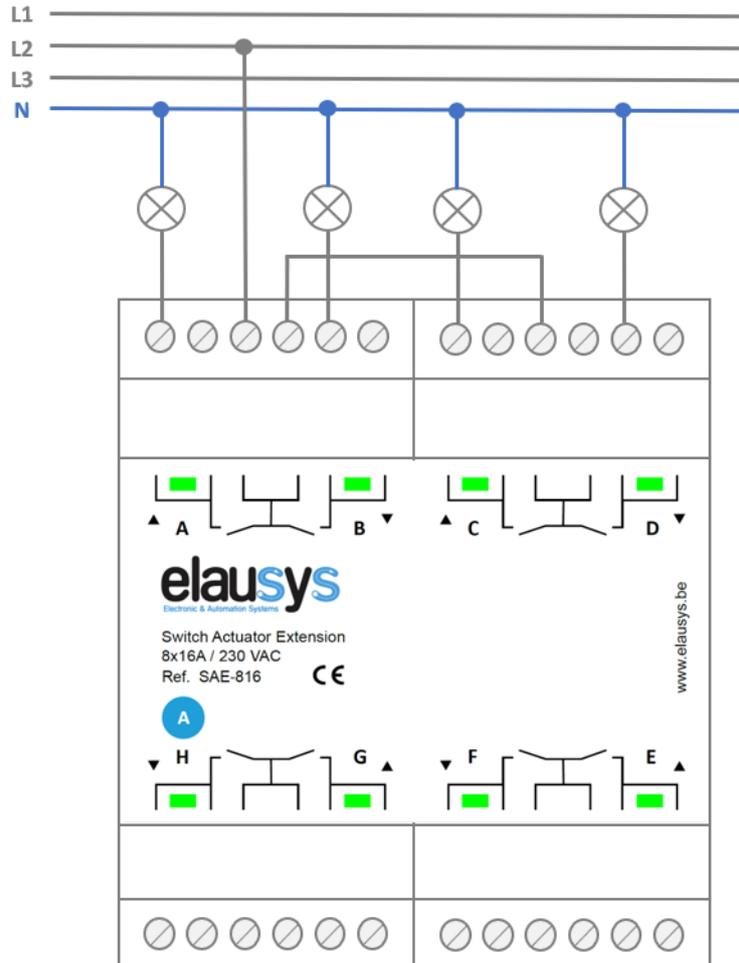
#### **Switch Actuator 8-fold**

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

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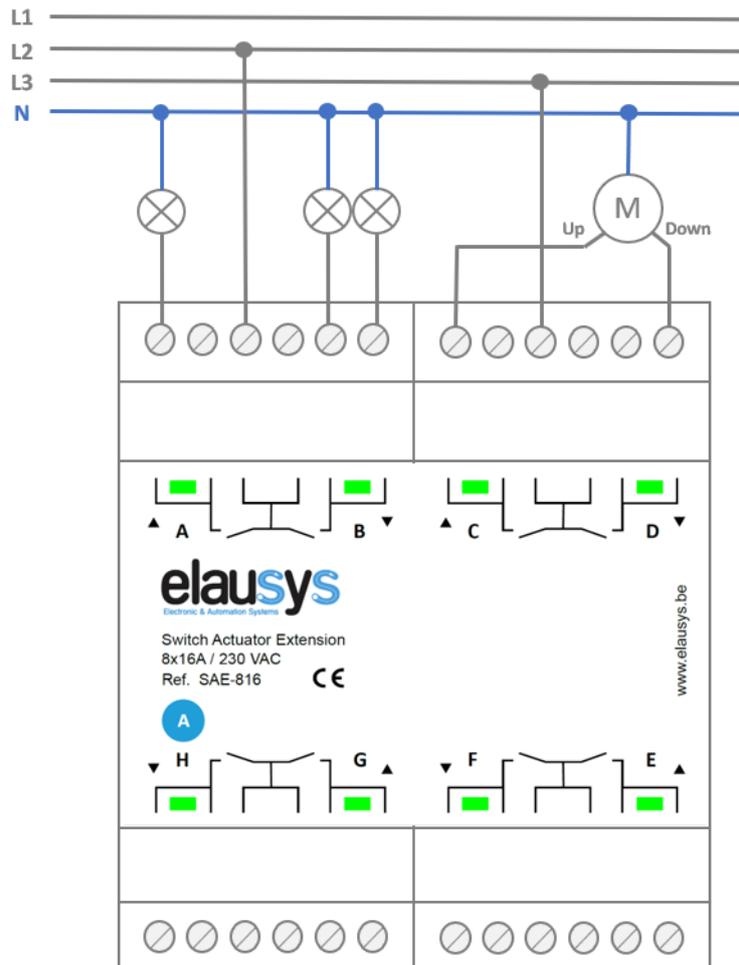
## 2. CONNECTION

Each connection to the relay output has two terminals that allows to connect two loads directly on the same output without having to group wires in a single terminal. The main phase is common for two consecutive channels and two terminals are also available to bridge the main phase to the next group of channels. See example below where 4 lights are driven from the same main phase.



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In the second example below, the main phase L2 is supplying channels A and B. A single light is connected to channel A and two lights are driven together by channel 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 one of the two main phase terminals. One of the two terminal of the "Up" channel is connected to the motor phase for upward direction, one of the two terminal of the "Down" channel is connected to the motor phase for downward direction. See the example below of channels C and D 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)	4SU
Switching outputs	8
Output rated voltage	230 VAC
Rated resistive load	16 A
Output life expectancy (mechanical)	5.000.000
Max. total current of the actuator	32A
Screw terminal section	2,5mm <sup>2</sup>
Torque screw terminal	0,5Nm
Max. extension modules	8
Max. number of channels	72
Available application software	ETS4 (limited functions) / ETS5 (full functions)