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|  | Datasheet | Doc.Ref : SAE-410_DS |
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SAE-410

Switch Actuator Extension 4x10A 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-410 extension module has 4 channels (A to D) to drive 230 V AC electrical loads up to 10A. 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:

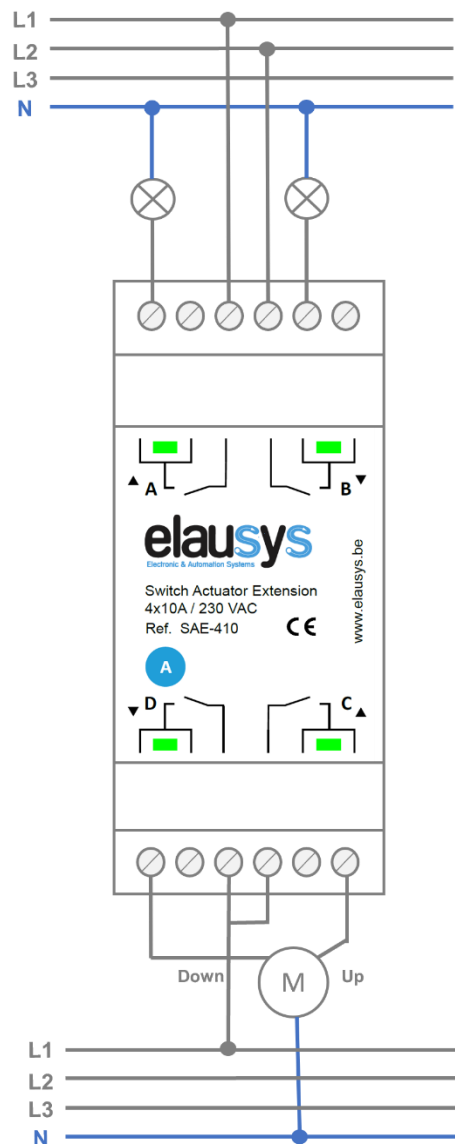
Switch Actuator 4-fold


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

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2. CONNECTION

For each relay output there is a free potential contact, the first terminal is to connect the main phase from the circuit breaker distribution, a group of two terminals is available to connect the load and to facilitate the connexion of multiple wires. 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 second 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) | 2SU |
| Switching outputs | 4 |
| Output rated voltage | 230 VAC |
| Rated resistive load | 10 A |
| Output life expectancy (mechanical) | 10.000.000 |
| Max. total current of the actuator | 20A |
| 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 | ETS4 (limited functions) / ETS5 (full functions) |