Analogue Actuator, 4-fold, MDRC AA/S 4.1, 2CDG 120 005 R0011

The Analogue Actuator converts measured data received via the KNX to analogue output signals. The device features four outputs.
The analogue outputs can be used as current or voltage outputs with adjustable output signals. The number of analogue outputs can be increased to 8 using the Analogue Actuator Module AAM/S. The Analogue Actuator is a DIN rail device for installation in the distribution board. The connection to the KNX is established using a bus connection terminal. The device needs an external 24 V AC power supply.

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Technical Data

Power supply	Operating voltage Bus voltage Current consumption device / KNX Power consumption	24 V AC ± 10 % 21 … 30 V DC via KNX Max. 310 mA / < 10 mA typ. 150 mW
Outputs	4 analogue outputs A1…A4 Signal type Output signal load	Extendable with Analogue Actuator Module AAM/S to 8 outputs 0 ... 1 V DC 0 ... 20 mA 0 ... 10 V DC 4 ... 20 mA depending on parameterisation Voltage signal: ≥ 1 kΩ Current signal: ≤ 500 Ω
Output current	Voltage signal Current signal	Max. 10 mA per channel Max. 20 mA per channel
Operating and display elements	Device status display Output signal A1…A4 display Programming button and LED (red)	Status LED (3-colour: red, orange, green) Status LED (yellow) For assignment of the physical address
Connections	KNX Analogue outputs A1…A4 24 V AC power supply System connector, 6-pole	Bus connection terminal (black/red) 2 screw terminals per output/terminal Conductor cross-section: single-core: 0.50 – 4.0 mm² stranded: 0.34 – 4.0 mm² stranded: 0.14 – 2.5 mm² Connection for max. 1 analogue actuator module
Enclosure	IP 20, EN 60 529	
Ambient temperature range	Operation Storage Transport	– 5 °C ... + 45 °C – 25 °C ... + 70 °C – 25 °C ... + 70 °C
Humidity	Ambient/Storage/Transport	Max. 93 % rel. humidity, no condensation
Design	Modular installation device	
Housing, colour	Plastic housing, grey	
Installation	On 35 mm mounting rail	to DIN EN 50 022
Dimensions	90 x 72 x 69.5 mm (H x W x D)	
Mounting depth / width	70 mm / 4 modules at 18 mm	
Weight	approx. 180 g	
Mounting position	as required	
Approvals	KNX to EN 50 090-1, -2	
CE mark	in accordance with the EMC guideline and low voltage guideline	

Application program	Number communication objects	Max. number of group addresses	Max. number of associations
Analogue output 4-8f /1.3	58	200	200

Note:

The programming requires Software Tool ETS2 V1.3 or higher. If ETS3 is used a ".VD3" type file must be imported. The application program is available in the ETS2 / ETS3 at ABB/output/analogue output.

Detaild information about the application can be found in the product manual for the „Analogue Actuator AA/S 4.1, Analogue Actuator Module AAM/S 4.1". This manual can be free downloaded under www.ABB.de/KNX.

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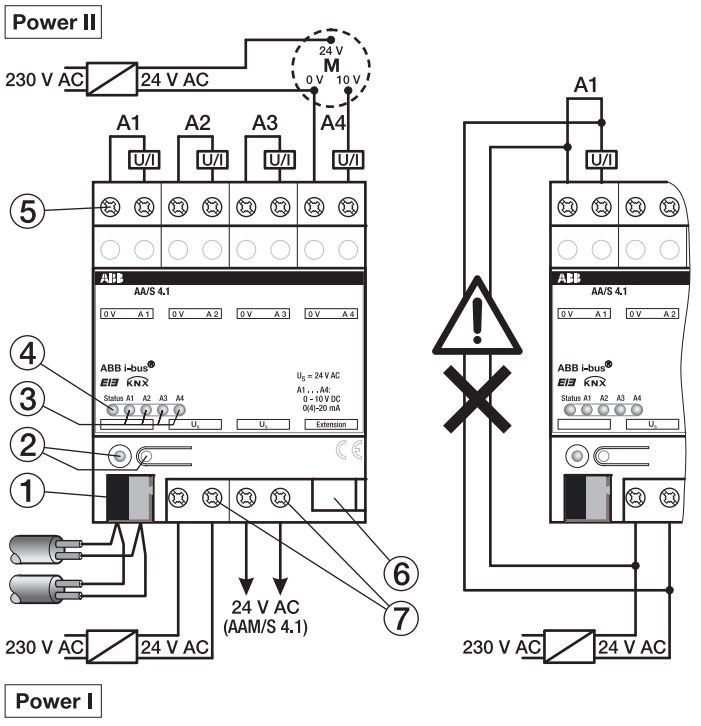
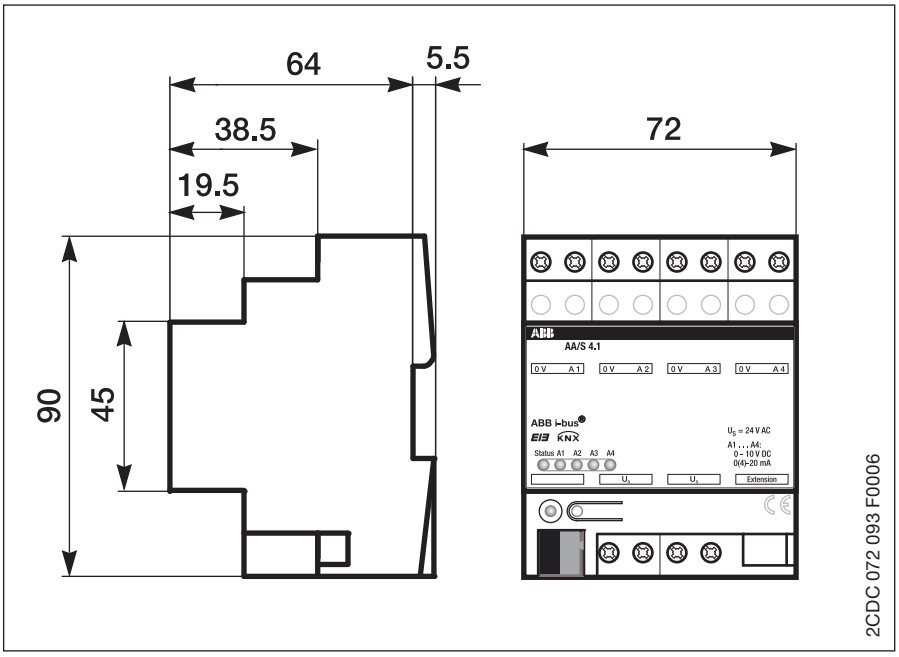
Wiring diagram



2CDC 072 009 F0009

1 Bus connecting terminal
2 Programming LED/button
3 Status LED output A1…A4
4 Status LED device
5 Connection terminals A1…A4
6 Connection for Analogue Actuator Module
7 Connection terminal 24 V AC

Dimension drawings



Installation

The connection to a max. of one Analogue Actuator Module is implemented via a 6-pole system connector (included with the Analogue Actuator Module).

- The 24 V AC supply voltage must not be used for supplying further components (e.g. motor drives for vantilation flaps) wich are controlled by the analogue outputs (risk of irreparable damage!).
- Do not connect electronic ballast's or electronic transformers with 1–10 V control input to the outputs!
- Do not connect external voltages to the outputs. Connected components must ensure safe separation from other voltages.
- The 0 V terminals must not be connected with the terminals of the same designation of an Analogue Actuator (risk of irreparable damage!).
- The 0 V terminals of outputs A1...A4 are internally connected.

Notes

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