

Installation instructions

KNX SA 2/4/6/8M230.x AP



Keep for future use!
Valid from 1st May 2017

General information



Fig. 1 KNX SA 8M230.16 AP

The KNX SA 2/4/6/8M230.x AP sun shading actuator is a device for the central operation of up to eight sun shading drives 230 V AC (the following uses the sun shading actuator for eight motors with 16 push button inputs as an example).

The device is operated using a KNX bus system. The drives and the motor control unit are supplied via a 230 V AC control line.

Intended use

The KNX SA 2/4/6/8M230.x AP was developed to control sun shading products. The approval of the manufacturer must be obtained for any use of the device other than its intended purpose specified in these instructions.

Safety instructions



WARNING

The electrical installation must be performed by a certified electrician in accordance with the electrical installation regulations published by the Association of German Electrical Engineers (VDE 0100) or the standards and legal requirements of the country in which the device is being installed. The electrician must observe the installation instructions included with the supplied electrical devices.



WARNING

If hazard-free operation cannot be assumed, the device may not be started or must be deactivated. This assumption is justified if:

- the housing or the connecting lines show signs of damage,
- the device is no longer working.



WARNING

It is important to comply with the following points in the interest of personal safety.

- Children may not play with the operating elements of the control unit or the remote control. Store remote controls out of reach of children.
- Make sure that no persons or objects are in the range of movement of the driven parts (blinds, external venetian blinds, etc.).
- Disconnect the device from the operating voltage if cleaning or other maintenance work must be performed.

Function of the sun shading actuator

You will find a detailed description of the software functions for the KNX sun shading actuators in the manual (art. no. 2014 787). You can download the manual and the product database of the sun shading actuator from www.warema.com.

Installation

Insert a slotted screwdriver (recommendation: 3.0 - 4.0 mm blade) into a cover opening (Fig. 3) and carefully pry open the hinged cover. Repeat the procedure for the second opening of the cover. After both latches have been unlatched, the cover can be removed. Open the second cover in the same way. Alternatively, the AP model may also be mounted on a DIN rail (TH 35-15 in accordance with EN 60715: 2001).

Electrical connection

An on-site overload current protection device (fuse) and a disconnecting and isolating switch to switch off the entire system must be provided.

The electrical connection is made as shown in the wiring diagram on the reverse side (Fig. 4), the connection to the KNX bus system and the drives is made using spring terminals, the connecting lines are designed as screw terminals.



WARNING

All terminals and connections under current must be covered completely against touching by the latched cover. It should not be possible to open the latched cover without using tools.

Commissioning

After the installation has been completed and the operating voltages have been applied, the connected drives can be checked via Bluetooth using an app.

You will find a detailed description on the further commissioning in the KNX manual (art. no. 2014 787).

Local operation

You will find the app for operating the KNX sun shading actuator in the Apple AppStore and in the Google Play Store.

Download this on your smartphone.

After starting the app, the surrounding area is scanned for WAREMA sun shading actuators. Available actuators are shown and can be operated.

Operation via app has the same priority as manual operation via group objects. The operating behaviour is as follows:

Brief push of the button = Stop/step move command
Long push of the button = Up/Down move command.

A detailed description of the operation is integrated in the app and can also be found in the associated KNX manual (art. no. 2014 788).

NOTICE The communication between the smartphone and the KNX devices is established via Bluetooth. This function can be switched off using the ETS (in default mode, the function is always "On").

During parameterization, change the default password in accordance with your specifications and memorize your password in order to prevent operation by unauthorized persons.



WARNING

Never randomly press the keys on the app without having a line of sight to the sun shading system.

Programming

You can perform programming either in the app or directly on the device.

There is a Prog button for programming and a display LED both in the app and on the keypad (see Fig. 2).

The procedure here is basically the same:

- Press the programming button in the app or on the device (Fig. 2) to put the device into programming mode. The red LED lights up when programming mode is active. Programming is performed using the ETS on the PC. This software ends the programming mode automatically. The red LED goes out.
- If the programming mode is to be ended earlier, press the programming button again. The red LED goes out.

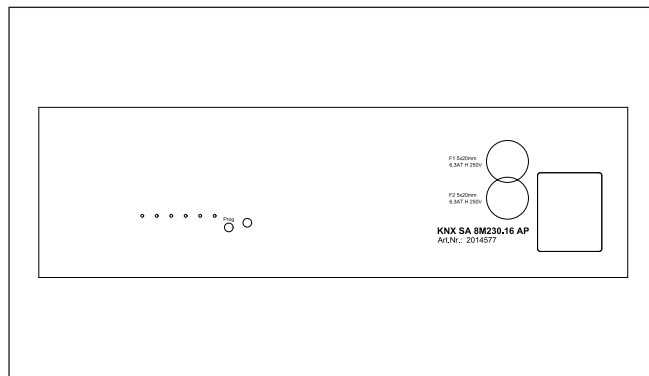


Fig. 2 View of the keypad

Maintenance

There are no parts inside the device that require maintenance. In the event of a malfunction, the built-in miniature fuses should only be changed by a certified electrician.


Liability

Failure to comply with the product information in these instructions and any use of the device other than its intended use may result in the manufacturer refusing to honour warranty claims for product damage. In this case, liability for consequential damage to persons or property will also be excluded. Observe the information in the operating instructions for your sun shading system. The automatic or manual operation of the sun shading system while iced over as well as using the sun shading system during severe weather may cause damage and must be prevented by the user through suitable precautions.

Disposal

After use, the device must be disposed of according to legal regulations or turned in to your local recycling centre.

Technical data

KNX SA 2/4/6/8M230.x AP	min.	typ.	max.	Unit
Operating voltage	198	230	253	V AC
Mains frequency	50	50	60	Hz
Power consumption in standby mode	0.7	1.3	2.3	W
Output per drive*				
Switching capacity 230 V AC/cos φ =0.6			500	VA
*The total power per fuse must not exceed 1000 VA.				
Interface KNX	TP 1			
Current consumption KNX	3.5		13	mA
Voltage		29		V DC
Inputs on local operating elements (sunblind push buttons, 1-pin) and signal inputs				
Voltage, active	8	24	36	V DC
Current, active	0.5	1	1.5	mA
Voltage, inactive	-0.5	0	1	V DC
Bluetooth transceiver				
Transmission frequency	2.402		2.480	GHz
Transmission power			0	dBm
Input sensitivity			-90	dBm
Operating range (environment without interference)		5		m
Conformity	 can be viewed at www.warema.com			
This device complies with the EMC directives for use in residential and commercial areas.				
Ambient conditions				
Operating temperature	0		50	°C
Storage temperature	0		70	°C
Humidity (not condensing)	10	40	85	%F _{rel}
Connection				
Connecting line	Screw terminals			
KNX bus system, drives, push button inputs	Spring terminals			
Wire cross sections				
Connecting line	max. 2.5 mm ²			
KNX bus system	0.6 - 0.8 mm Ø			
Motor outputs, push button inputs	max. 1.5 mm ²			
Housing	Degree of protection			
Surface-mounted housing	IP30			
Safety class (PE is looped through)	I			
Miscellaneous				
Automatic operation	Type 1			
Software class	A			
Location of use	clean ambient conditions			
Article numbers				
KNX SA 2M230.4 AP				2014 569
KNX SA 4M230.8 AP				2014 571
KNX SA 6M230.12 AP				2014 575
KNX SA 8M230.16 AP				2014 577
WAREMA Renkhoff SE Hans-Wilhelm-Renkhoff Strasse 2 97828 Marktheidenfeld, Germany				

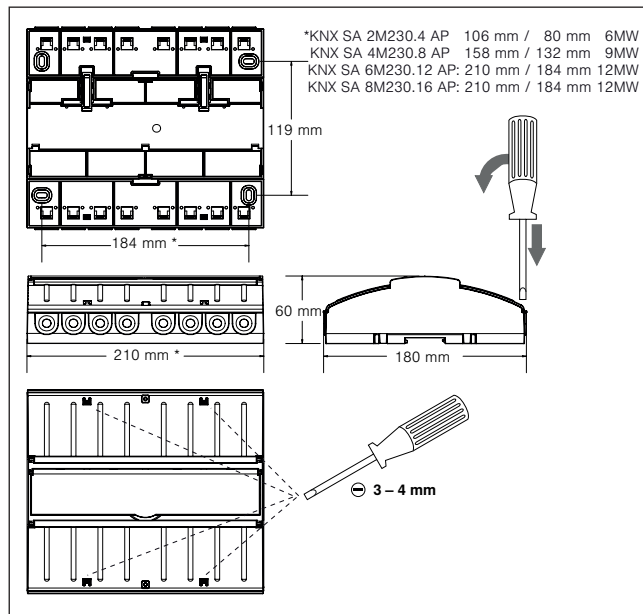


Fig. 3 Dimensions

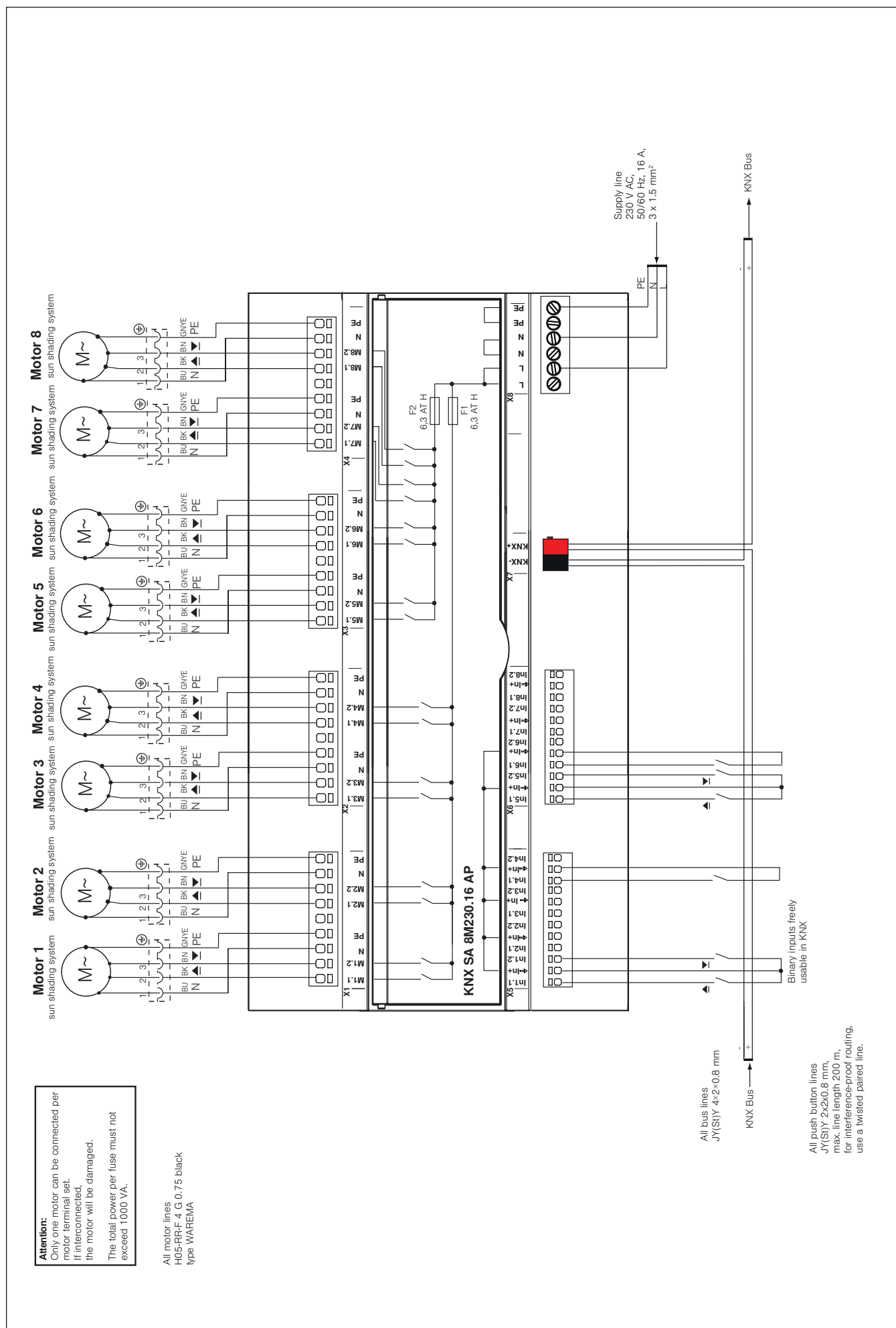


Fig. 4 Connection example KNX SA 8M230.16 AP