



Synchronised
Solar Shading

Warema SMI KNX Sun Shading Actuator

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The Warema SMI KNX Sun Shading actuator can be used to control up to 16 SMI or SMI LoVo sun shading drives in a maximum of 16 groups, independently of each other.



Adjustable

With the WAREMA KNX actuators SA SMI you can individually control up to 16 SMI sun shading drives in up to 16 groups and prevent consumption of a standby current. Appropriate parameters are already pre-programmed and make setup easier for you.

User-oriented

During dwell time, your sun shading system remains in the position that you have set. The settings are not overridden by a control mode.

Straightforward

Easy commissioning of KNX Sun shading actuators thanks to the unique manual override operation via Bluetooth LE.

Product Properties

ETS Adjustment Options:

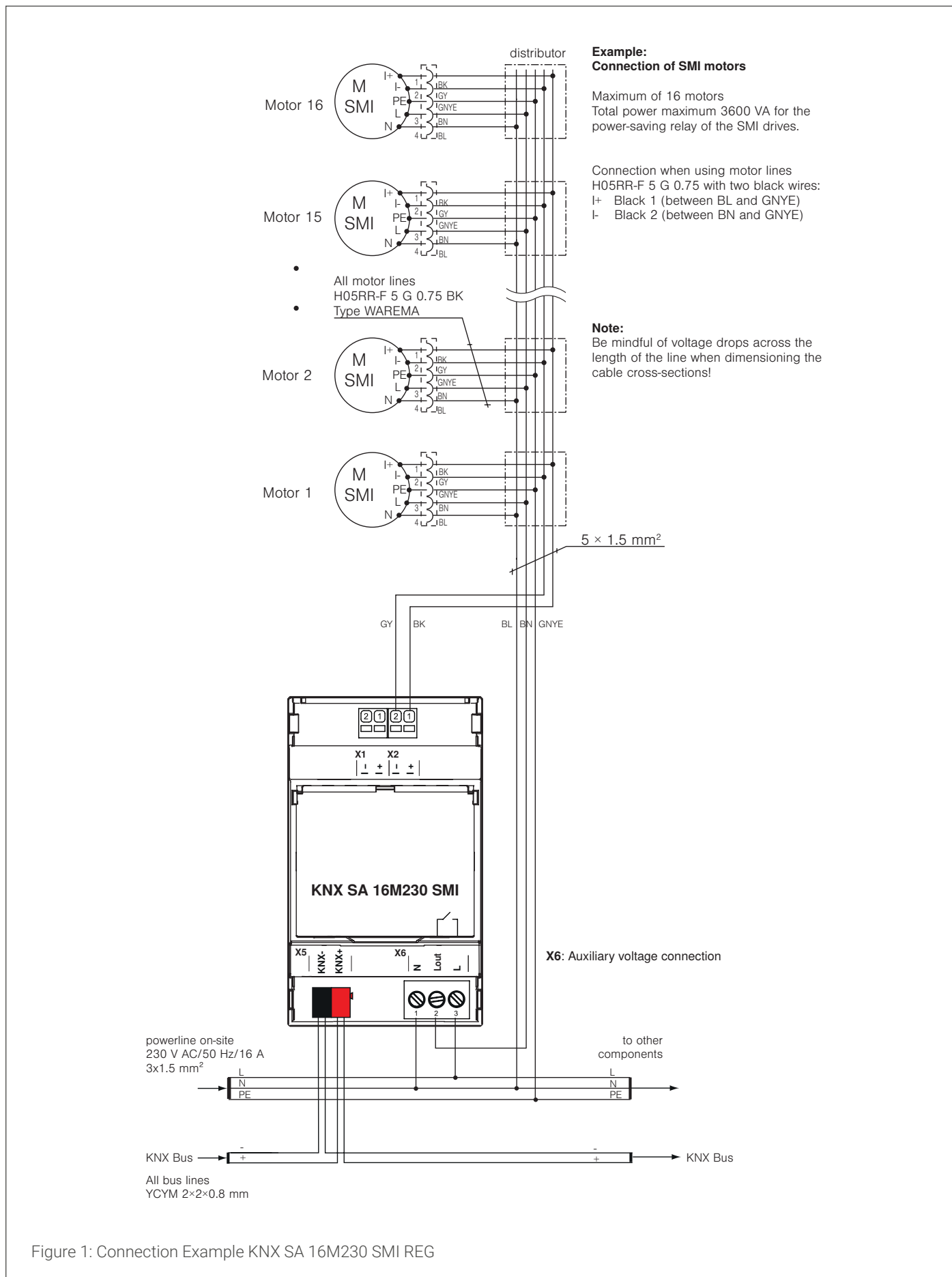
- Preselection of group type for various sun shading products with preset basic parameters
- Status of position height of the sun shading product, slat angle, dwell time active, error object and status of upper limit position
- 3 global safety objects of different priorities with cyclical monitoring and an additional safety object per group
- Individual allocation of the reaction to safety objects during or after alarm
- Activation/deactivation of the automatic inputs with parameterisable automatic return function
- Limitation of manual operation possible with automatic objects (e.g. Cut-Off function)
- 8 scene objects per output

Smartphone App Functions Via Bluetooth Interface

- Emergency/manual operation (SMI Broadcast, group, individual motors)
- SMI motor search,
- SMI motor allocation (commissioning/exchange of a motor without ETS)
- Actuation of the KNX programming button
- Status display of binary inputs
- Bluetooth code can be changed via ETS
- Bluetooth code can be deactivated via ETS
- Functions of the ETS DCA app:
 - SMI motor search
 - SMI motor allocation
 - SMI error list readable
- Emergency/manual operation (SMI Broadcast, group, individual motors)
- Synchronisation of ETS project and actuator (for SMI commissioning via smartphone app)
- Status display of binary inputs

SMI drives can be switched off via integrated relay, prevents long-term standby current consumption. Emergency/manual operation using push buttons.

Wiring Diagram



Technical Data				
KNX SA 16M230 SMI REG KNX SA 16MDC SMI LoVo REG	Min.	Typ.	Max.	Unit
Auxiliary Power Supply 230 V As SMI Interface				
Operating Voltage	198	230	253	V AC
Mains Frequency		50		Hz
SMI Power Consumption Deactivated		-		W with 230 V AC
SMI Power Consumption Activated		1.3		W with 230 V AC
Power-Saving Relay Switching Capacity for SMI Drives			3600	VA
SMI Outputs				
Number of SMI Interfaces			1	Pc
Number of Motors			16	Pc
Number of Groups			16	Pc
Bluetooth Transceiver				
Transmission Frequency		2.4		GHz
Transmission Power			0	dBm
Input Sensitivity			-90	dBm
Operating Range (environment without interference)		5		m
KNX Interface				TP 1
Current Consumption KNX			5	mA
Current Consumption KNX at Device Start		18		mA
Voltage 30			V	DC
Conformity	CE Available at www.warema.de/ce			
This device meets the EMC directives for use in residential and commercial areas.				
WAREMA Renkhoff SE declares herewith that this radio system type KNX SA 16M230 SMI REG and KNX SA 16MDC SMI LoVo REG is in compliance with the guideline 2014/53/EU.				
Ambient Conditions				
Operating Temperature	0		50	°C
Storage Temperature	-25		70	°C
Humidity (not condensing)	10	40	85	%H _{rel}
Degree of Soiling				2
Connections				
Supply 230 V AC Screw Terminals				Screw Terminals
SMI Interface Spring Terminals				Spring Terminals
KNX Bus System Spring Terminals				Spring Terminals

Technical Data		
Connection terminals		
Supply 230 V AC		max. 2.5 mm ²
Stripping Length		6.5 mm
Torque		0.5 - 0.6 Nm
SMI Interface		max. 1.5 mm ²
Stripping Length		8 mm
KNX Bus System		0.6 - 0.8 mm
Stripping Length		6 mm
Housing		
Degree of Protection		IP30
Safety Class		II
Overvoltage Category		III
Input/output Insulation Voltage		4 kV AC / 1 min
Article Numbers		
KNX SA 16M230 SMI	REG 2022211	
KNX SA 16MDC SMI	2022489	
LoVo REG		
WAREMA Renkhoff SE Hans-Wilhelm-Renkhoff-Strasse 2 97828 Marktheidenfeld Germany		

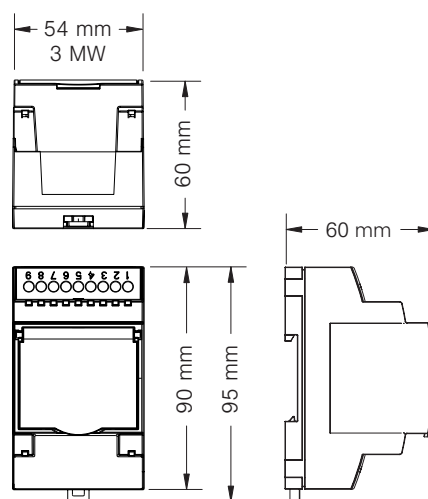
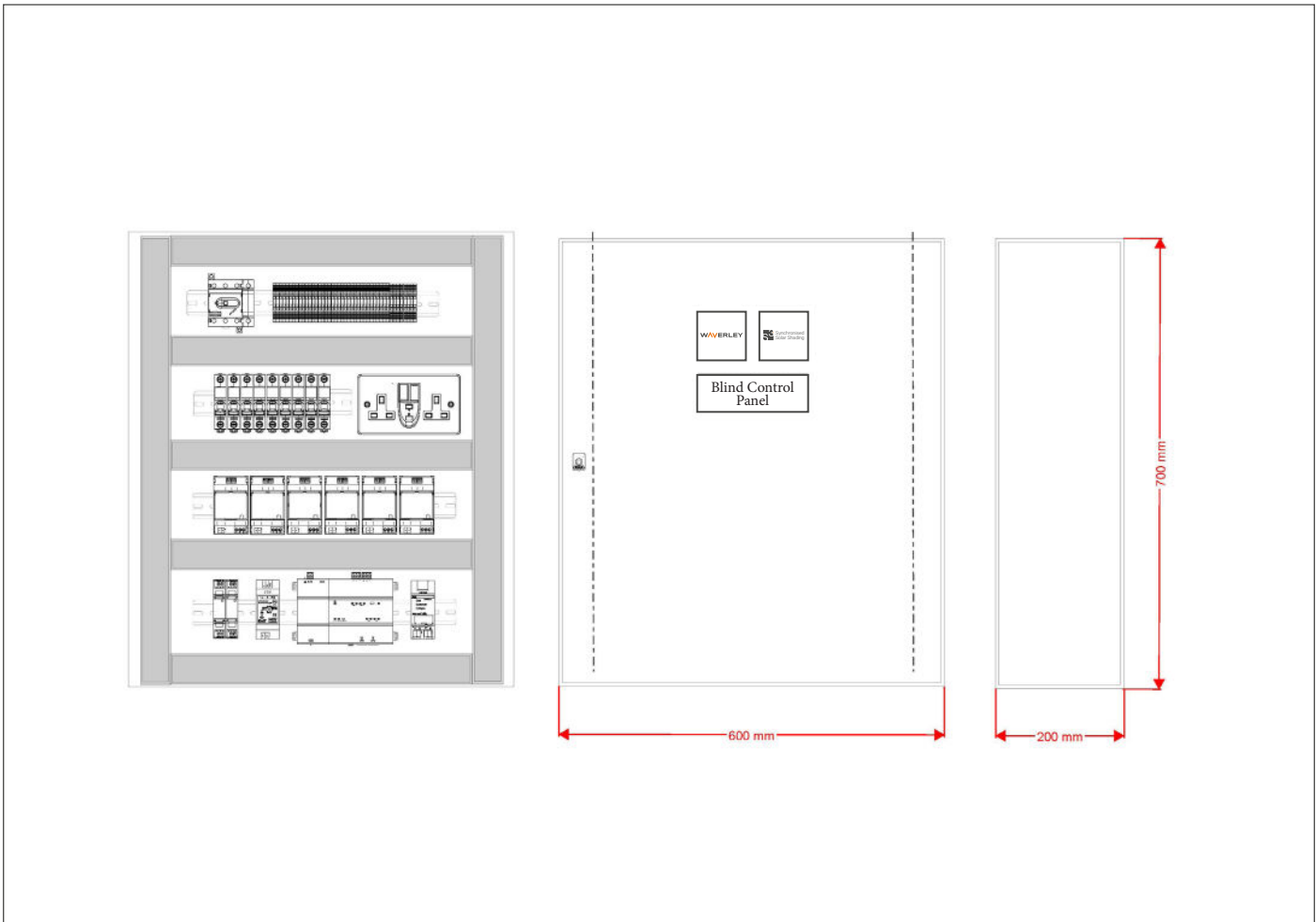


Figure 1: Dimensions of 3 MW DIN Rail-mounted Housing for KNX SA 16M230 SMI REG and KNX SA 16MDC SMI LoVo REG.



The Warema KNX actuator forms the hub of the blind control within our system. This device links 16 SMI drives to the KNX network within the system and give the ability to get two way communication from our blinds.

This device is key to our wiring strategy and helps reduce the requirement of traditional systems making the installation far more sustainable. It also gives the ability to centralise the controllers making future maintenance and upgrades simple ad cost effective.

