GRIESSER

KNX®

Controls from Griesser.
Griesser KNX

GRIESSER

KNX

Information about the sensor system and accessories can be found in the “Sensors, operation and accessories” brochure.

- Controls between 1 and 32 groups
- Master operation
- Automatic sun control for several façades
- Wind, rain, temperature and frost function
- Clock with power reserve
- Time programs
- Automatic locks
- Motor control with test button
- Error diagnosis
- KNX BUS system

GRIESSER KNX – AT A GLANCE

The Griesser KNX solar shading control offers sophisticated, end-to-end functionality in a comprehensive system suitable for smaller to very large buildings. With proven functions, such as sun tracking and horizon restrictions, even the highest demands placed on a solar shading control are met.

The best possible precision sun shading can be achieved using product settings that are dovetailed to Griesser facade products. The settings can be adapted to suit other products as well at the customer's request.
Existing systems can be easily expanded at any time to take care of future needs.

Griesser controls – automatically good.

Griesser iPad control

Enables simple and intuitive operation of the blinds that is also possible without an Internet connection. The App is available free of charge for downloading from the App Store.

Remoto® hand-held transmitter

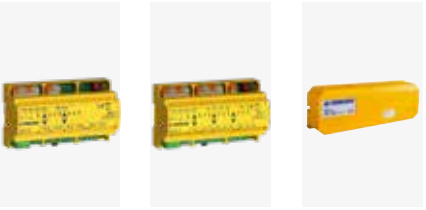
Several motor controls with radio receivers can be operated at the same time with the hand-held transmitter.

Weather centre

The weather centre center provides the highest level of functionality. From simple control functions to extensive sun protection automation systems, everything can be easily and quickly adjusted.

Motor controls

The motor controls can be used for practically all motors available with 2 or 3 limit switches. Thanks to sophisticated end position detection, all façade products can be optimally controlled with the motor controls. The motor controls can be mounted in switch cabinets or decentrally in wall ducts or intermediate floors or ceilings.



Touch panel

The control panel is connected to the solar shading central unit. These units allow operation of a system from a single location. The panel is available in a flush-mount or surface-mount version.

User terminal

The user terminal is a software program which can be installed on a PC. The PC is connected to the solar shading central unit via an interface. The user terminal allows a system to be operated from a PC.

Terminal Server

The terminal server links the Griesser LINK with the ethernet/TCP-IP. It enables remote access to the solar shading central which makes it possible to remotely control the Griesser blinds control device.

Weather centre unit for residential construction, 1 to 8 sectors

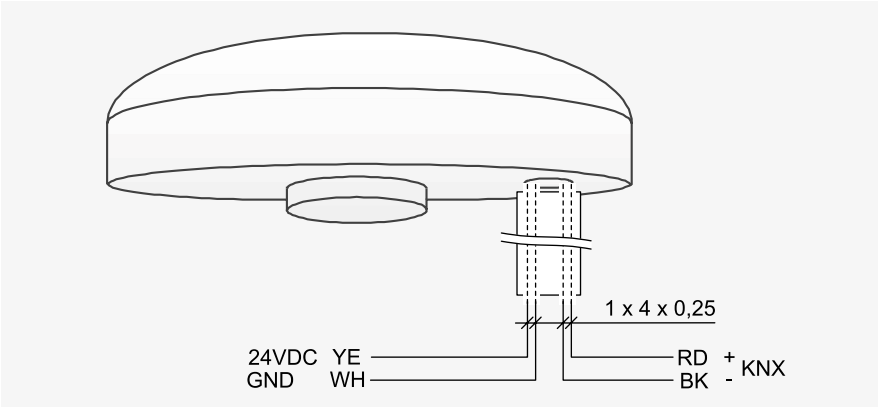
- Control of up to 8 sectors
- Including 2 sectors for conventional motor control units
- Automatic shading with sun tracking shadow edge positioning
- Energy utilisation function and global radiation assessment
- Product protection (automatic wind, rain and frost monitoring)
- Up to 8 timer programs with twilight function
- Logic function
- Blocking functions
- Simulation mode and diagnostics
- KNX Griesser object
- Configuration with ETS
- BUS monitoring
- Remote maintenance using the KNX gateway

The EMX-8 weather centre unit combines the core and the sensors of the Griesser KNX control in a single unit. The central unit offers flexible and extensive options for the solar shading automation of small to large systems, especially in residential construction. The advantage lies in the central configuration and administration of all important automatic programs using ETS. This makes it easy to set interdependencies dealing with automatic timing or shading.
Programming and commissioning are quick, secure and simple due to the communication with the motor control via the Griesser object.

The Griesser object links the central unit with all motor controls via a group address.

PURPOSE
Weather centre unit for up to 8 sectors.
Shading programs utilising differentstrategies.
Automatic programs for product protection (wind, rain, frost).
Energy utilisation function and global radiation assessment.
Automatic daylight-savings/standard time switching.
8 timer programs for Mon. - Fri. and Sat./Sun. with twilight function.
Logic programs for the processing of external inputs.
Blocking functions with various priorities.
Reception and evaluation of sensor data via KNX BUS.
Transmission of internal sensors as well as time of day and date via KNX-BUS.
Simulation mode for the support of commissioning and for fault diagnosis.
Commands go from the central unit to the motor control via one Griesser object per system.
Configuration is performed with the ETS.

EMX-8



TECHNICAL DATA

Device

Device type	EMX-8
Housing material	PC Makrolon
Dimensions	Ø 130 x 63.5 mm
Installation	wall, sensor mast
Type of protection	IP 54, EN 50491
Operating environment	-30 until +60°C
Weight	215 g

Connections

Supply voltage

Voltage	18 V ... 30 V AC/DC, 50/60 Hz
Current consumption	120 mA @ 24 V
Electric circuit	SELV
KNX BUS	in accordance with KNX Standard
Cable	connection cable, Ø 4.5 mm with 4 x 0.25 mm² fine-stranded conductors, 5 m, extendable to max. 100 m

Griesser Link

Electric circuit	PELV

Brightness sensor

Recording range	horizontal 360°, 4 brightness sensors
Measuring range	0 ... 100 kLux, including twilight

Wind sensor

Measuring range	ca. 7 – 100 km/h

Precipitation sensor

Temperature control	5°C dry , 40°C wet
Switching delay	dry => wet: at once
	wet => dry: 3.5 minutes

Temperature sensor

Measuring range	typically –30 to +60°C
Resistance	PT 1000 DIN EN 60751

Global radiation sensors

Measuring range	0 ... 1300 W/m²

CONTROL VIA THE E-BOX MYHOMEBOX

iPad

Partner ergo3 www.ergo3.ch

Sun protection control center for 1 to 32 groups

- Controls between 1 and 32 groups
- Automatic sun control with solar tracking
- Horizon limitation (FMX-32IH)
- Product protection (automatic wind, rain and frost function)
- Automatic temperature function
- Clock with maximum 8 time programs
- Year calendar
- Input for DCF-77
- Locking functions
- Simulation mode
- Diffuse-light analysis
- KNX Griesser product
- Configuration with Griesser FlexTool and ETS
- BUS monitoring
- Remote maintenance

FMX-8IH

The sun protection control center is the heart of the Griesser KNX control. The flexible concept enables individual controls to be fitted to form an extensive sun protection automation system in large systems. The benefit of this is that all key automatic programs can be managed centrally, enabling the dependences between automatic timers, automatic temperature functions and automatic sun control to be easily set up. Communication with the motor control via the KNX Griesser product makes for quick, reliable and easy programming and commissioning.
The Griesser object links the central unit with all motor controls via a group address.

PURPOSE

Sun protection control center for up to 32 groups (3 different types of control center: FMX-8IH, FMX-16IH, FMX-32IH).

Shading programs with various strategies and adaptive delay times to reduce movements.

Automatic programs for product protection (wind, rain, frost, fire).

Automatic programs for shading, temperature, heat, operation and shock.

Automatic switching between summer time/winter time.

8 timer programs with daily and weekly automatic settings and an astro function. The timer programs can be selected per sector. Within the 8 automated timer programs, 50 timed commands can be managed.

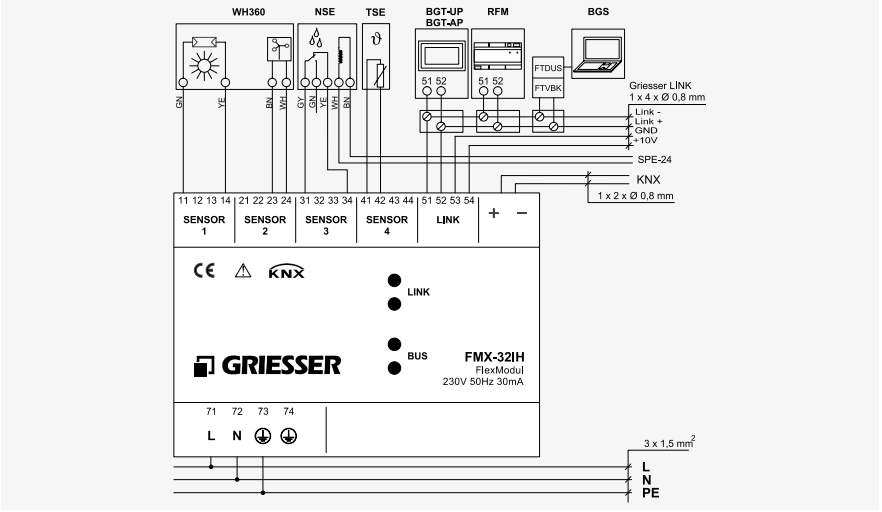
Input programs for processing external inputs like venetian blind push buttons or potential-free contacts in external systems which are integrated for individual control.

Operating terminal for convenient operation, visualization and maintenance of the system.

Output program for producing output signals on the KNX BUS for signaling other systems.

Locking functions can be coordinated using 14 priority levels.

Connection diagram



FMX-32IH

- Sensor inputs can be extended to 12 inputs.
- 8 sensor values can be sent on the BUS or received by the BUS.
- Clock with power reserve of 48 hours.
- Simulation mode to support commissioning and for error diagnosis.
- Commands from control center to motor control using one Griesser product per system.
- Horizon limitation for consideration of shading on the façade of adjacent buildings.
- Annual calendar for overriding the timer programs during freely selectable periods.
- Diffuse-light analysis optimizes shading during direct and diffuse light conditions.
- Configuration is performed using the Griesser FlexTool and ETS.

TECHNICAL DATA

Device

Device type	FMX-8IH, FMX-16IH, FMX-32IH
Housing design	REG 6TE, DIN 43880
Housing material	Impact-resistant and flame-retardant plastic, yellow
Dimensions	161 x 91 x 63 mm
Installation	In switch cabinet on top-hat rail 35 mm (EN 50022) or equivalent
Type of protection	IP 20, EN 60529
Operating environment	Dry rooms, 0–50°C, level of pollution 2
CE conformity	In compliance with the EMC Directive, Low Voltage Directive and RoHS Directive
Weight	260 g

Connections

Mains

Voltage	230 V AC ±10%, 50 Hz
Current consumption	Typically 30 mA
Connection	Screw terminals, 4-pin
Cable	3 conductors (L, N, PE), 1.5 mm², single stranded or finely stranded

Sensors

Number	4
Connection	Pluggable screw terminals, 4-pin
Electric circuit	PELV
Cable	2 or 3 conductors, 0.34–0.63 mm², single stranded or finely stranded, twisted (at least 5 twists per meter) In order to ensure the expandability of the system, we recommend providing a 3 x 4 cable on the sensor pole for the connection to the central unit.

KNX BUS

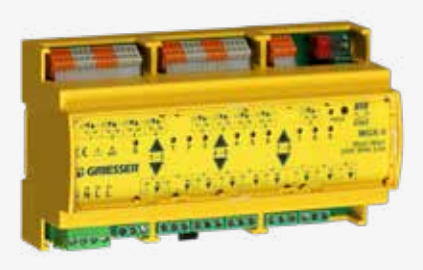
Connection	Plug terminals, red/black, 2x 4-pin
Cable	2 conductors, Ø 0.5–0.8 mm, single stranded, installation according to KNX standard

Griesser LINK

Electric circuit	PELV
Cable	4 conductors, Ø 0.8 mm, twisted (at least 5 twists per meter), length of cable max. 200 m

Motor control for 9 motors

- Connects up to 9 motors
- Configuration with ETS plug-in
- Shading with 4 positions
- BUS monitoring
- Limited operation
- Positioning with height and angle commands
- Motors with 2 limit switches
- End position detection
- Façade product can be positioned in any way
- Operated by motor
- Priorities
- Operating connections/binary inputs
- Feedback of current states
- Sequences
- Test button on device
- Signalization of safety and automatic lock
- KNX Griesser product



MGX-9

The elaborate and robust 9-way motor control is used for shading with façade products like venetian blinds, rolling shutters, awnings and façade awnings and boasts all the necessary features to do so.
Thanks to sophisticated end position detection, the system is moved into the shading position and the room is only in shade for a short period.
Measuring and analyzing the operating time enables the façade product to be moved into the exact position. The aging process and fluctuations in temperature are thereby automatically taken into account.
The automatic solar tracking control, which features 4 preset operating positions – privacy, shading below, shading above and transparency –, offers a high level of comfort in the workplace and at home.
“Limited operation” also guarantees optimum product protection if it’s windy or frosty. The façade product can still be operated in a reduced, secure area.
Standard pushbuttons or control cables can be directly connected to the binary inputs on the device. The connection input statuses affect the motors or they can be sent on the BUS as KNX products.

PURPOSE
Test button to control function and direction of rotation.
Recognition of the motor limit switch for automatic measurement of operating time and rooms only being in shade for a short period before the system is moved into the shading position.
Limited operation for safety or shading commands.
Binary input for KNX command or can be used directly as a local pushbutton.
Status feedback via the KNX BUS and as an indicator per channel (LED).
Easy and secure connection of the solar shading central unit to the motor controls via the 6-byte Griesser object for all commands and functions.
Special communication products for connecting to external systems or control systems.
Detailed diagnosis, troubleshooting and visualization of internal statuses via ETS plug-in.
16 sequence positions can be stored per channel.
Signalization on local pushbutton with LED for locking functions.

TECHNICAL DATA

Device

Device type	MGX-9
Housing design	REG 9TE, DIN 43880
Housing material	Impact-resistant and flame-retardant plastic, yellow
Dimensions	161 x 91 x 63 mm
Installation	In switch cabinet on top hat rail 35 mm (EN 50022) or equivalent
Type of protection	IP 10, EN 60529
Operating environment	Dry rooms, 0–50°C, level of pollution 2
CE conformity	In compliance with the EMC Directive, Low Voltage Directive and RoHS Directive
Weight	560 g

Local operation

Number	9
Binary inputs	18
Electric circuit	SELV
Connection	Spring tension terminals, 4-pin
Cable	4 conductors (RAISE, LOWER, LED, +), 1 x Ø 0.8 mm, single stranded, twisted (at least 5 twists per meter), length of cable max. 100 m
LED current	Typically 2 mA
Switch contact	12 V DC, potential-free, gold-plated

Connections

Mains

Voltage	230 V AC ±10%, 50 Hz, circuit breaker max. 13 A
Standby power per channel	0.60 W
Connection	Pluggable screw terminals, 4-pin
Cable	3 conductors (L, N, PE), 1.5 mm², single stranded or finely stranded

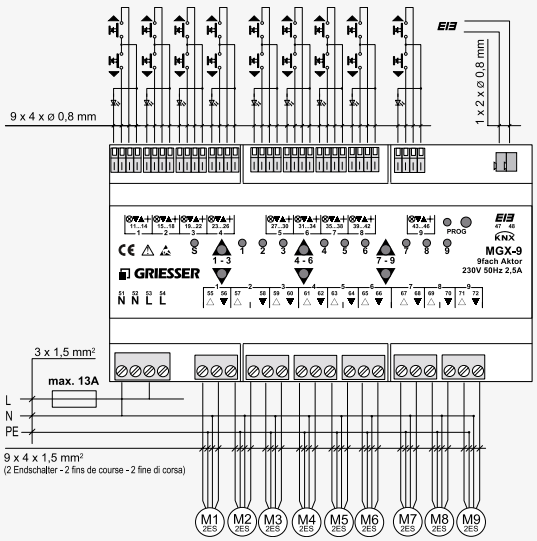
Motor

Number	9
Connection	Screw terminals, 2-pin
Cable	4 conductors (RAISE, LOWER, N, PE), 1.5 mm², single stranded or finely stranded, motor neutral conductor can be routed individually or collectively
Current	Max. 2.5 A, total of motors max. 13 A Current for end
position detection	Min. 200 mA RMS
Motor type	Asynchronous motor 230 V AC, 50 Hz, with 2 mechanical limit switches, power factor > 0.9 **Motors with integrated electronics on request!**

KNX BUS

Connection	Plug terminals, red/black, 2 x 4-pin
Cable	2 conductors, Ø 0.5–0.8 mm, single stranded, installation according to KNX standard

Connection diagram



Motor control for 6 motors

- Connects up to 6 motors
- Configuration with ETS plug-in
- Shading with 4 positions
- BUS monitoring
- Limited operation
- Positioning with height and angle commands
- Motors with 2 or 3 limit switches
- End position detection
- Façade product can be positioned in any way
- Operated by motor
- Priorities
- Operating connections/binary inputs
- Feedback of current states
- Sequences
- Test button on device
- Signalization of safety and automatic lock
- KNX Griesser product

The elaborate and robust 6-way motor control leaves nothing to be desired in terms of shading with façade products like venetian blinds, rolling shutters and awnings. With tried and tested functions, like sophisticated end position detection, permanent measurement of operating time and shading with 2 or 3 limit switch motors, all façade products can be controlled effortlessly.
Motors with 3 limit switches can move the system into the shading position without the room being in shade or causing glare, while motors with 2 limit switches can do this with the room being in shade for a very short period and with minimum glare.

The automatic solar tracking control, which features 4 preset operating positions – privacy, shading below, shading above and transparency –, offers a high level of comfort in the workplace and at home.
"Limited operation" also guarantees optimum product protection if it's windy or frosty. The façade product can still be operated in a reduced, secure area.
The motor control can also elegantly tackle demanding tasks for a room's energy management or multistage priorities.
Standard pushbuttons or control cables can be directly connected to the binary inputs on the device. The connection input statuses affect the motors or they can be sent on the BUS as KNX products.
To further increase comfort, individual operating commands can be carried out using sequences. The internal logic module can be used for complex control tasks.

MSX-6

PURPOSE
Test button to control function and direction of rotation.
Recognition of the motor limit switch for automatic measurement of operating time and rooms only being in shade for a short period before the system is moved into the shading position.
Limited operation for safety or shading commands.
Binary input for KNX command or can be used directly as a local pushbutton.
Status feedback via the KNX BUS and as an indicator per channel (LED).
Easy and secure connection of the solar shading central unit to the motor controls via the 6-byte Griesser object for all commands and functions.
Special communication products for connecting to external systems or control systems.
Detailed diagnosis, troubleshooting and visualization of internal statuses via ETS plug-in.
Logic function directly in actuator.
16 sequence positions can be stored per channel.
Signalization on local pushbutton with LED for locking functions.

TECHNICAL DATA

Device

Device type	MSX-6
Housing design	REG 9TE, DIN 43880
Housing material	Impact-resistant and flame-retardant plastic, yellow
Dimensions	161 x 91 x 63 mm
Installation	In switch cabinet on top hat rail 35 mm (EN 50022) or equivalent
Type of protection	IP 10, EN 60529
Operating environment	Dry rooms, 0–50°C, level of pollution 2
CE conformity	In compliance with the EMC Directive, Low Voltage Directive and RoHS Directive
Weight	560 g

Connections

Mains

Voltage	230 V AC ±10%, 50 Hz, circuit breaker max. 13 A
Standby power per channel	0.70 W
Connection	Pluggable screw terminals, 4-pin
Cable	3 conductors (L, N, PE), 1.5 mm2, single stranded or finely stranded

Motor

Number	6
Connection	Screw terminals, 3-pin
Cable	5 conductors (RAISE, LOWER1, LOWER2, N, PE), 1.5 mm², single stranded or finely stranded, motor neutral conductor can be routed individually or collectively
Current	Max. 2.5 A, total of motors max. 13 A Current for end
Position detection	Min. 200 mA RMS
Motor type	Asynchronous motor 230 V AC, 50 Hz, with 2 or 3 mechanical limit switches, power factor > 0.9 **Motors with integrated electronics on request!**

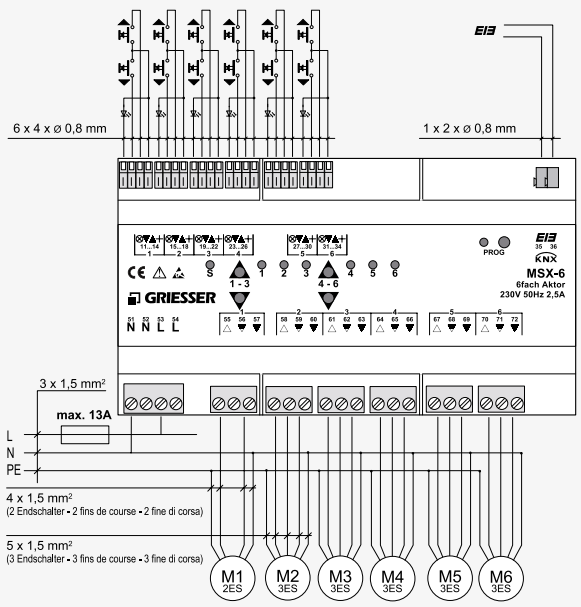
Local operation

Number	6
Binary inputs	12
Electric circuit	SELV
Connection	Spring tension terminals, 4-pin
Cable	4 conductors (RAISE, LOWER, LED, +), 1 x Ø 0.8 mm, single stranded, twisted (at least 5 twists per meter), length of cable max. 100 m
LED current	Typically 2 mA
Switch contact	12 V DC, potential-free, gold plated

KNX BUS

Connection	Plug terminals, red/black, 2 x 4-pin
Cable	2 conductors, Ø 0.5–0.8 mm, single stranded, installation according to KNX standard

Connection diagram



Motor control for 2 motors

- Connects up to 2 motors
- Configuration with ETS plug-in
- Shading with 4 positions
- BUS monitoring
- Limited operation
- Positioning with height and angle commands
- Motors with 2 or 3 limit switches
- End position detection
- Façade product can be positioned in any way
- Operated by motor
- Operation with hand-held radio transmitter
- Priorities
- Operating connections/binary inputs
- Feedback
- Sequences
- Test button in device
- Signalization of safety and automatic lock
- KNX Griesser product

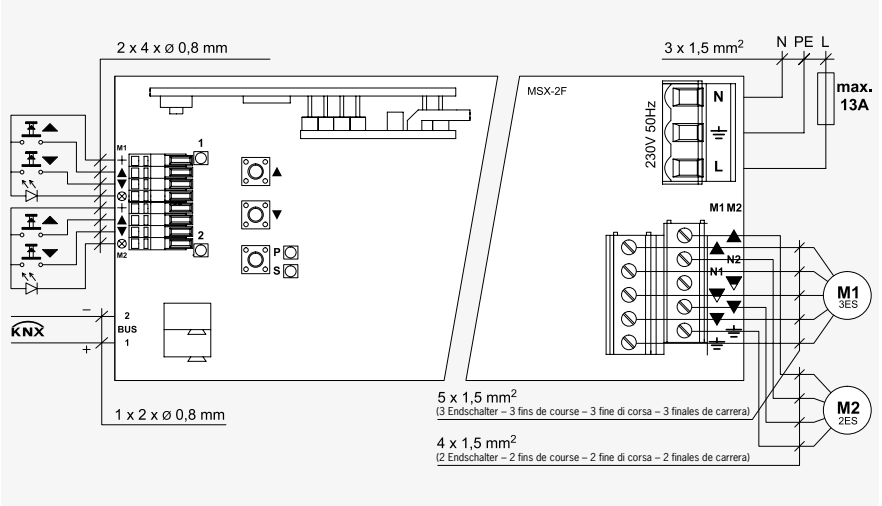
MSX-2

The elaborate and robust 2-way motor control leaves nothing to be desired in terms of shading with façade products like venetian blinds, rolling shutters and awnings. With tried and tested functions, like sophisticated end position detection, permanent measurement of operating time and shading with 2 or 3 limit switch motors, all façade products can be controlled effortlessly.

Motors with 3 limit switches can move the system into the shading position without being in shade or causing glare, while motors with 2 limit switches can do this with the room being in shade for a very short period and with minimum glare.
The automatic solar tracking control, which features 4 preset operating positions – privacy, shading below, shading above and transparency –, offers a high level of comfort in the workplace and at home.

“Limited operation” also guarantees optimum product protection if it’s windy or frosty. The façade product can still be operated in a reduced, secure area.
The motor control can also elegantly tackle demanding tasks for a room’s energy management or multistage priorities.
Standard pushbuttons or control cables can be directly connected to the binary inputs on the device. The connection input statuses affect the motors or they can be sent on the BUS as KNX products.
The “Feedback” function outputs the current position of the facade product and is suited for use in visualisation or the linking of higher level systems.
To further increase comfort, individual operating commands can be carried out using sequences. The internal logic module can be used for complex control tasks.
Radio systems (only MSX-2F) enable independent operation at any time. Venetian blinds, rolling shutters and awnings can be operated inside and outside at the touch of a button. A radio solution increases comfort and avoids extra costs and additional installations.

Connection diagram



Motor control for 2 motors with radio operation

MSX-2F

Remoto® 5 KNX

Remoto® 1 KNX

PURPOSE

Test button to control function and direction of rotation.

Recognition of the motor limit switch for automatic measurement of operating time and rooms only being in shade for a short period before the system is moved into the shading position.

Limited operation for safety or shading commands.

Binary input for KNX command or can be used directly as a local pushbutton.

Status feedback via the KNX BUS and as an indicator per channel (LED).

Easy and secure connection of the solar shading central unit to the motor controls via the 6-byte Griesser object for all commands and functions.

Special communication products for connecting to external or control systems.

Detailed diagnosis, troubleshooting and visualization of internal statuses via ETS plug-in.

Logic function directly in motor control.

16 sequence positions can be stored per channel.

Signalization on local pushbutton with LED for locking functions.

TECHNICAL DATA

Device

Device type	MSX-2, MSX-2F
Housing design	For local installation with integrated strain relief
Housing material	Impact-resistant and flame-retardant plastic, yellow
Dimensions	205 x 70 x 50 mm
Installation	Parapet channel, intermediate floor or hollow ceiling
Type of protection	IP 20, EN 60529
Operating environment	Dry rooms, 0–50°C, level of pollution 2
CE conformity	In compliance with the EMC Directive, Low Voltage Directive and RoHS Directive
Weight	MSX-2 = 390 g, MSX-2F = 400 g
Radio frequency	868.3 MHz (MSX-2F)

Local operation

Number	2
Binary inputs	4
Electric circuit	SELV
Connection	Spring tension terminals, 4-pin
Cable	4 conductors (RAISE, LOWER, LED, +), 1 x Ø 0.8 mm, single stranded, twisted (at least 5 twists per meter), length of cable max. 100 m
LED current	Typically 2 mA
Switch contact	12 V DC, potential-free, gold plated

Connections

Mains

Voltage	230 V AC ±10%, 50 Hz, circuit breaker max. 13 A
Standby power per channel	1.50 W
Connection	Screw terminals, 3-pin
Cable	3 conductors (L, N, PE), 1.5 mm², single stranded or finely stranded

KNX BUS

Connection	Plug terminals, red/black, 2 x 4-pin
Cable	2 conductors, Ø 0.5–0.8 mm, single stranded, installation according to KNX standard

Motor

Number	2
Connection	Screw terminals, 5-pin
Cable	5 conductors (RAISE, LOWER1, LOWER2, N, PE), 1.5 mm², single stranded or finely stranded, motor neutral conductor can be routed individually or collectively
Current	Max. 2.5 A Current for end
position detection	Min. 200 mA RMS
Motor type	Asynchronous motor 230 V, 50 Hz, with 2 or 3 mechanical limit switches, power factor > 0.9 **Motors with integrated electronics on request!**

Remoto® 1 / 5 KNX hand-held transmitter

Nominal voltage	3 V DC
Battery type	Button cell 2430
Type of protection	IP 20, EN 60529
Ambient temperature	–10 to +55°C
Radio frequency	868.3 MHz
Dimensions	53 x 118 x 21 mm (W x H x D)
Weight	80 g

Operation, visualization, remote maintenance

BGT* TOUCH PANEL OPERATING TERMINAL

- 5.7” graphic display
- Master and group operation
- Intuitive operation using sequences
- Visualization of sensor and group statuses
- Switch programs on/off
- Colored status indicator
- On-wall BGT for surface-mounted installation
- BGT-UP for concealed installation
- Compatible with Feller EDIZIOdue**

BGS OPERATING TERMINAL FOR PC

- Master and group operation
- Visualization of sensor and group statuses
- Runs on a Windows PC

TERMINAL SERVER (GTS)

- Connection between Griesser LINK and Ethernet/TCP-IP
- Enables remote maintenance
- Connections to supervisory system via Modbus/TCP

The touch panel (BGT), the control terminal for PC (BGS) and the terminal server (GTS) ensure comfortable operation, visualization and maintenance of a Griesser blinds control device.
The touch panel is connected directly to the Griesser LINK. It is used to intuitively operate all the blinds in a building and display the status of the automatic functions. The contact-sensitive indicator enables the system to be directly operated and provides information about operation. The PC operating terminal can be used as an addition or alternative. It can be installed on a Windows PC or server connected to the Griesser blind control and offers the same options as the touch panel.

The terminal server links the Griesser LINK with the ethernet/TCP-IP. It enables remote access to the solar shading central which makes it possible to remotely control the Griesser blinds control device. Remote control can take place over the internet or intranet. Using the Griesser Terminal Server and the configuration software (FlexTool), the solar shading central can be selected and reconfigured and events can be recorded. The user or a facility manager can thus access the system at any time independently of the building location. In addition, the Terminal Server offers the possibility of linking the Griesser control to a third-party system for communication via a Modbus/TCP interface.

The following accessories for the BGT-UP must be ordered separately:

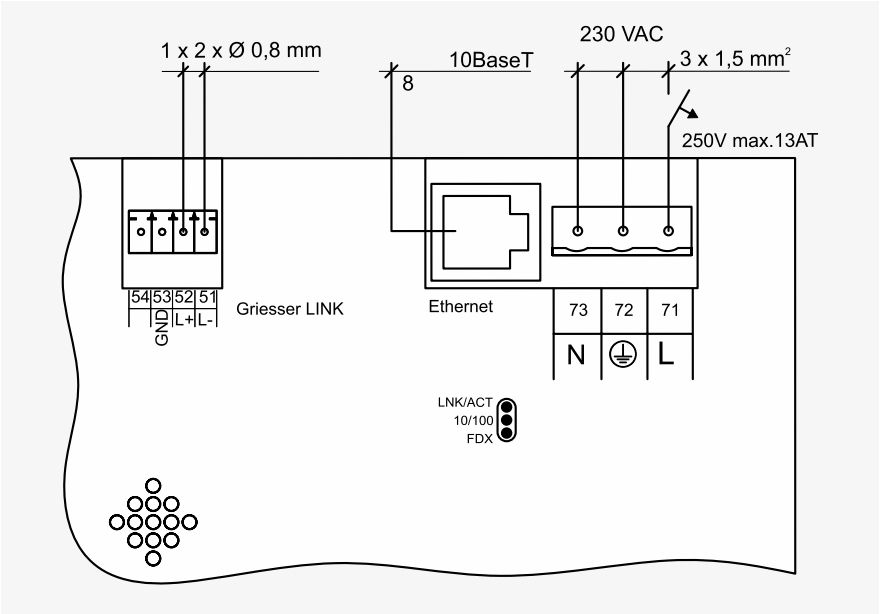
- BGT - FRONT front plate touch panel
- BGT frame (white)

** EDIZIOdue cover frame Size 3x2

BGT-UP

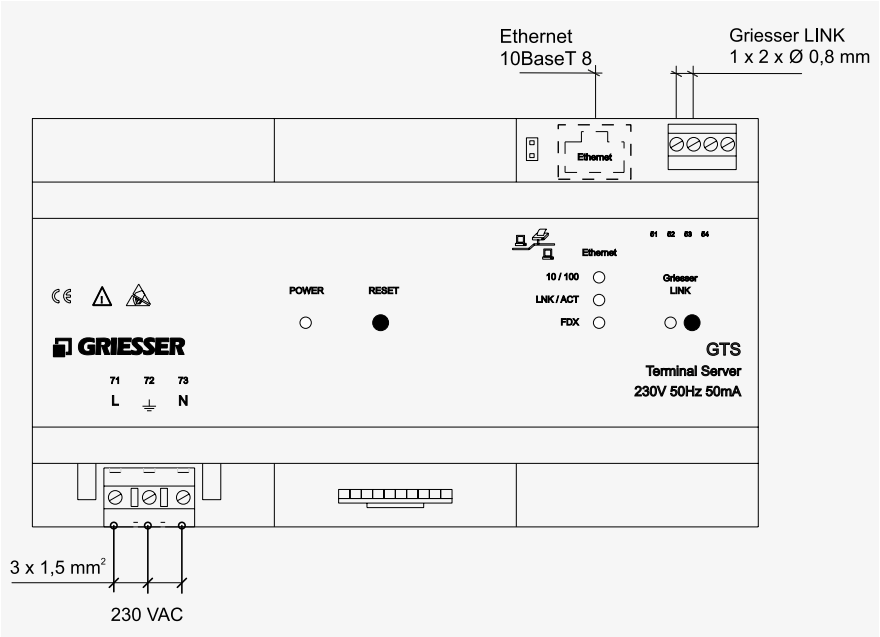
BGS

Connection diagram BGT-UP/BGT-AP



GTS

Connection diagram GTS



TECHNICAL DATA BGT-UP & BGT-AP

BGT

Dimensions	BGT-UP 108 x 148 x 42 mm BGT-AP 199 x 178 x 89 mm
Installation	In-wall inlet box size 3x2 box 9926EIB, E no. 372.116.129
Image area	5.7", approx. 115 x 86 mm
Colors	65536 (16Bit)
Resolution	320 x 240 pixels (QVGA)
Display technology	Active TFT LCD
Touch sensor	Resistive
Memory card	Slot for microSD™ Card, 1 or 2 GByte Accessible once front cover has been removed
Type of protection	IP20, EN 60529
Operating environment	Dry rooms, 0–50°C
CE conformity	In compliance with the EMC Directive, Low Voltage Directive and RoHS Directive

GTS

Housing design	REG 9TE, DIN 43880
Housing material	Impact-resistant and flame-retardant plastic, yellow
Dimensions	161 x 91 x 63 mm
Installation	In switch cabinet on top hat rail 35 mm (EN 50022) or equivalent
Memory card	Slot for microSD™ Card, 1 or 2 GByte Accessible once switch cabinet cover has been removed
Type of protection	IP20, EN 60529
Operating environment	Dry rooms, 0–50°C
CE conformity	In accordance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC

Connections

Mains

Voltage	230 V AC ±10%, 50 Hz
Power consumption	max. 8 W
Standby performance	3 W
Connection	Pluggable screw terminals, 3-pin
Cable	3 conductors (L, PE, N), 1.5 mm², single stranded or finely stranded
Ethernet	RJ45 plug, 8-pin

Connections

Mains

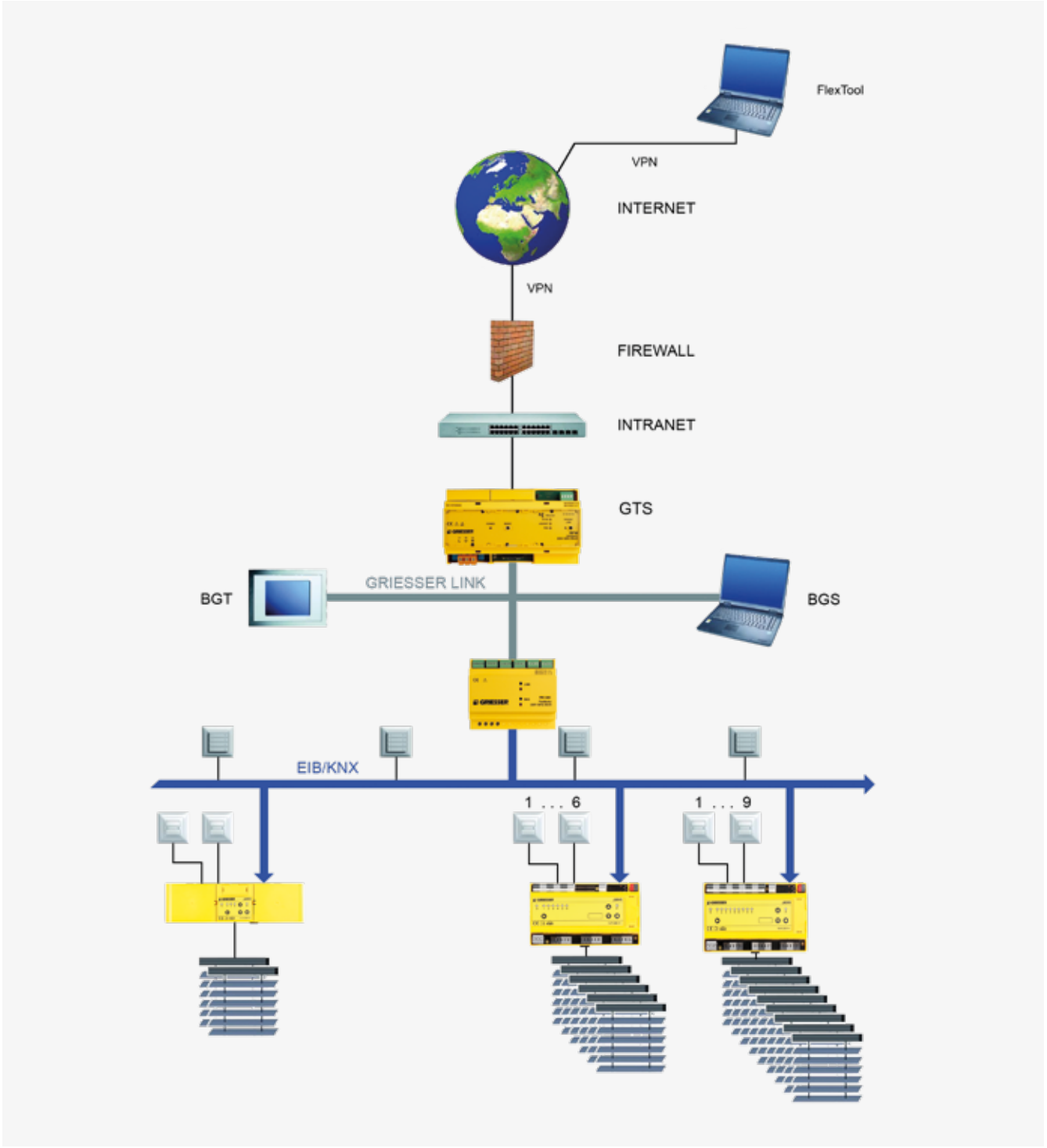
Voltage	230 V AC ±10%, 50 Hz
Power consumption	type 6 W
Connection	Pluggable screw terminals, 3-pin
Cable	3 conductors (L, PE, N), 1.5 mm², single stranded or finely stranded
Ethernet	RJ45 plug, 8-pin

Griesser LINK

Electric circuit	PELV
Connection	Pluggable screw terminal, 4-pin
Cable	4 conductors, Ø 0.8 mm, twisted (at least 5 twists per meter), length of cable max. 200 m

Griesser LINK

Electric circuit	PELV
Connection	Pluggable screw terminal, 4-pin
Cable	4 conductors, Ø 0.8 mm, twisted (at least 5 twists per meter), length of cable max. 200 m


FlexTool
VPN
INTERNET
VPN
FIREWALL
INTRANET
GTS
BGT
GRIESSER LINK
BGS
EIB/KNX
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Solar shading central unit, FMX-IH or weather centre, EMX-8

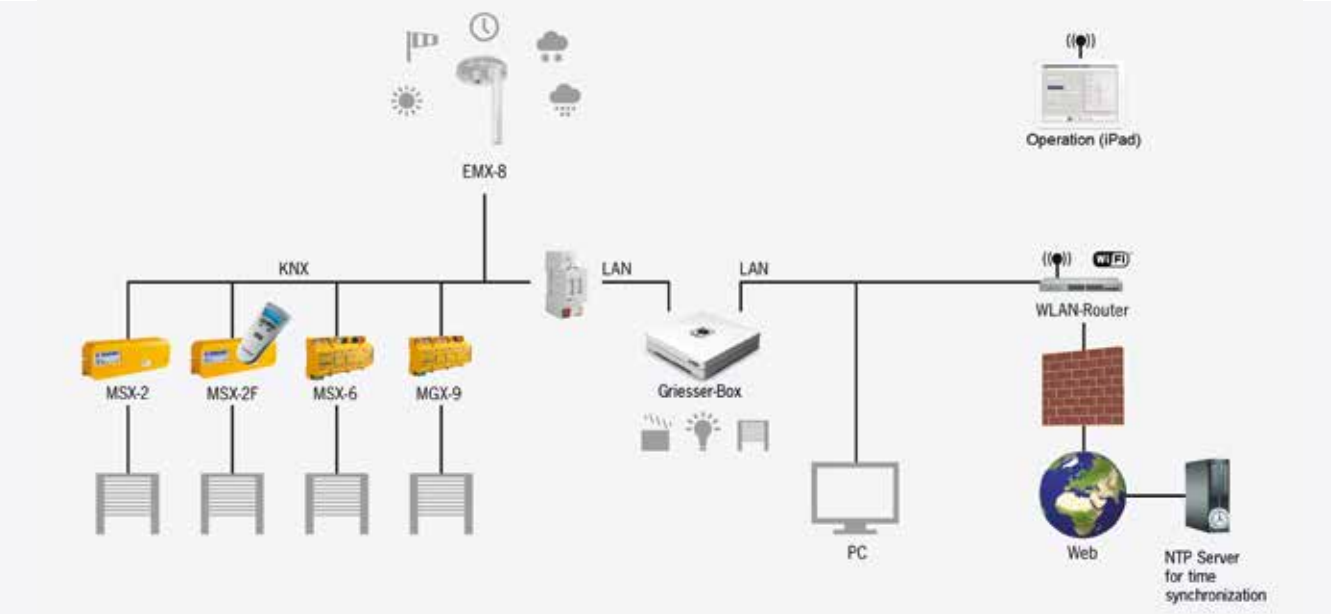
EMX-8

FMX-IH

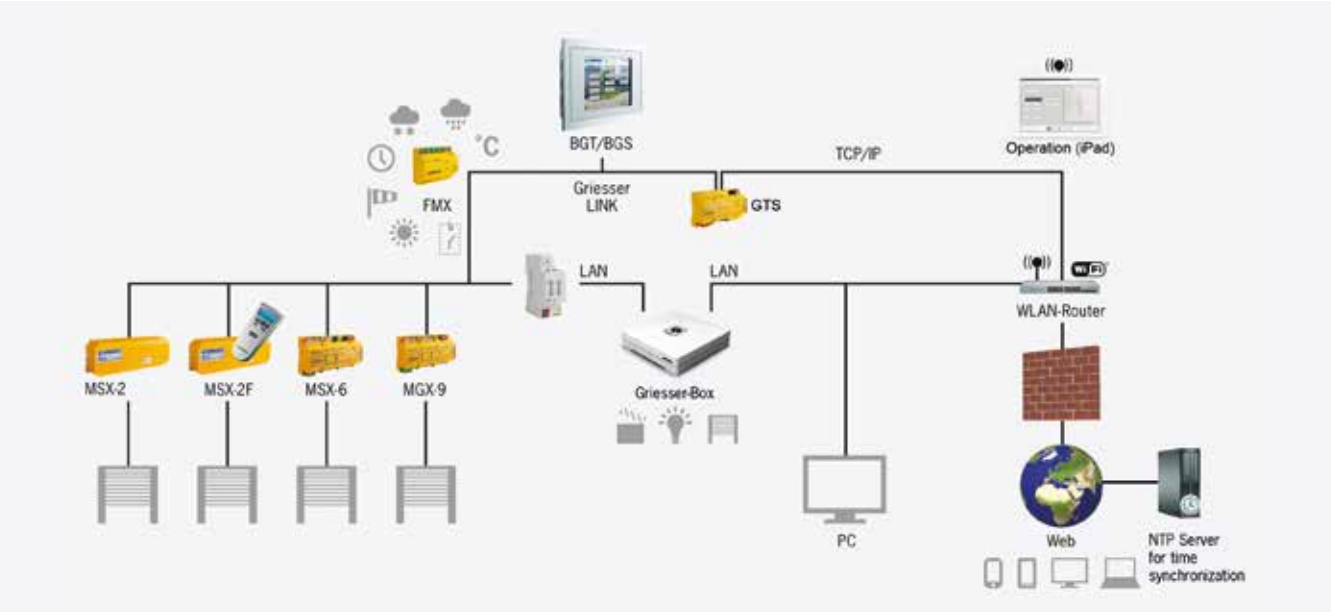
System size		
Number of central units	1	10
Number of motors	arbitrary	arbitrary
Number of sectors	8 Including 2 sectors for conventional motor control units	up to 320 Including 1 sector for conventional motor control units
Configuration		
Remote maintenance	with ETS	via RFM
Programming	with ETS	ETS + FlexTool
Functions		
Shading programme (SP)		
Solar shading / visual protection	x	x
Twilight	x	x
Solar tracking	x	x
Shadow outline tracking	x	x
Roof/vertical louvres	-	x
Horizon limitation	2 points	200 points
Global radiation	x	x
Timer programmes (ZP)	16 time commands	50 time commands
Wind programmes (WP)	x	x
Rain programmes (RP)	x	x
Frost programme (FP)	x	x
Temperature programme (TP)	-	x
Heat programme (HP)	-	x
Input programme (EP) for a third-party system	-	x
Priority handling	-	x

Topology

Residential building



Functional building



Your partner

Subject to change without prior notice

MINERGIE® MODUL
VSR Sonnenschutz Protection solaire

KNX is available as a MINERGIE® module with a Griesser solar shading system.

MIX
Paper from responsible sources
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