

Technical Datasheet sistema MC

1. Product description



The LON Universal-Controller sistema MC is the intelligent interface between the LON network and spega M series modules.

It controls up to 24 channels, which can be freely combined from the corresponding spega actuators.

2. Mounting and installation

2.1. Mounting

1. Installation on DIN EN50022 rail, width 2 TE
2. The connection interface for spega actuators is located on the right-hand side of the housing. The Controller must only be operated with spega e.control actuators. Observe the maximum space available on the DIN rail.



Switching inductive loads (for example contactors or electric motors) can produce powerful high frequency interferences, which may affect the functionality of this or other units. It is therefore recommended to install snubber circuits (e.g. RC snubber) on the outputs. Please refer to the manufactures of the connected loads for more information.



Electrical devices must be assembled and installed by trained personnel only.



Please observe local standards, guidelines and regulations when planning and installing electrical devices.



Do not exceed device specifications.

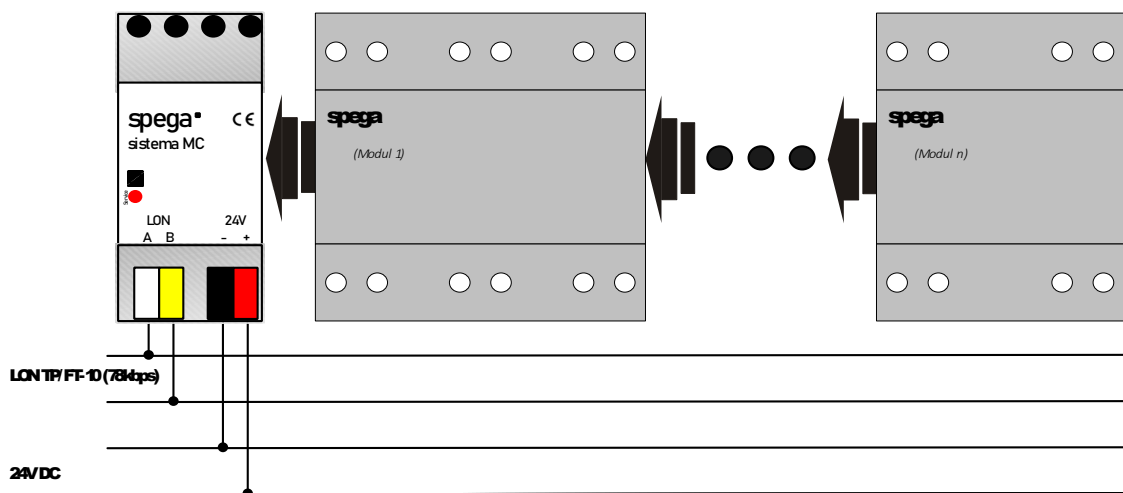


The system installer has to take care that the correct application and the associated parameters are corresponding with the wiring and the intended use of the device.



Connecting or disconnecting modules or controllers is only allowed if they are disconnected from all power supplies.

2.2. Installation



The LON Universal-Controller sistema MC implements a LON TP/FT-Transceiver. The operating voltage is 24V DC. Spega LON M-series modules can be connected to the controller using the 14-Pin Actuator interface.

3. Technical Data

Power supply

Operating voltage 24V DC (20...27V DC)

Current consumption typ. 40mA (1,0W)
(w/o modules)

Current sourcing (to modules) max. 800mA

Power dissipation 2,7W
(w/o modules)

Network

Network type TP/FT-10 (78kbps)

Transceiver type FTT

Inputs/Outputs

Actuator interface Control interface for spega modules

Connections

Network / Power supply 4-pin plug-in terminal connection for Ø 0,6 - 1,0mm (sol.), four bus lines can be connected to each pin

Actuator interface integrated 14-pin socket

Control elements

Service push-button Sends Neuron-ID when pressed

Display elements

Service LED ON: no application loaded
FLASCHING: unit not configured

Housing

Protection IP 20 (DIN 40050 / IEC 144)

Dimensions 85(45) x 35 x 60 (H x B x T) – corresponds to 2 modular spacings

Type/location of installation distribution board, 35mm DIN mounting rail

Ambient conditions

Operating temperature	-5°C ... +45°C
Storage temperature	-25°C ... +55°C
Transport temperature	-25°C ... +70°C
Relative humidity	5% ... 93% (w/o condensation)
Installation height	up to 2000 m above sea level

Safety

Electrical isolation	SELV (EN 60 950)
Protection class	III (IEC 536 / VDE 106 Teil1)

Standards

Device safety	acc. EN 50 090-2-2
Immunity	acc. EN 50 090-2-2
Certification	CE

4. Order information

Order no.	Product	Description
121 000 C	sistema MC	LON Universal controller for M/R series modular actuators
110 008	lumina BE8	Binary input 8 ports for floating contacts (e.g. window contacts, dew point or occupy sensors)
120 104	lumina SA4	switch actuator 4 channels
120 105	lumina SA4-b	same as lumina SA4, but with additional manual control option
120 108	lumina SA8	switch actuator 8 channels
120 109	lumina SA8-b	same as lumina SA8, but with additional manual control option
120 144	lumina ST4	1-10V control outputs for 4 channels
120 145	lumina ST4-b	same as lumina ST4, but with additional manual control option
120 164	lumina DAL4	DALI Controller for control and supply of 64 DALI devices in 4 groups

Order no.	Product	Description
120 168	lumina DAL8	DALI Controller for control and supply of 64 DALI devices in 8 groups
120 166	lumina DAL16	DALI Controller for control and supply of 64 DALI devices in 16 groups
120 202	ombra BA2	Sunblind actuator 2x230V AC with interlocking contacts
120 203	ombra BA2-b	same as ombra BA2, but with additional manual control option
120 232	ombra BA2-3E	Sunblind actuator 2x230V AC with interlocking contacts for motors with 3 limit switches
120 233	ombra BA2-3E-b	same as ombra BA2-3E, but with additional manual control option
120 204	ombra BA4	Sunblind actuator 4x230V AC with interlocking contacts
120 205	ombra BA4-b	same as ombra BA4, but with additional manual control option
120 222	ombra BA2-i	Sunblind actuator 2x230V AC for AC motors with encoder outputs
120 223	ombra BA2-i-b	same as ombra BA2-i, but with additional manual control option
120 214	ombra BA4_DC	Sunblind actuator 4x24V DC with pole-reversing output for 4 DC motors
120 215	ombra BA4_DC-b	same as ombra BA4_DC, but with additional manual control option
120 242	ombra BA2-DC-i	Sunblind actuator 2x24V DC for DC motors with encoder outputs
120 243	ombra BA2-DC-i-b	same as ombra BA2-DC-i, but with additional manual control option
120 254	ombra BA4-SMI	Sunblind actuator 4 x SMI
120 255	ombra BA4-SMI-b	Sunblind actuator 4 x SMI with additional manual control option
120 258	ombra BA8-SMI	Sunblind actuator 8 x SMI

Order no.	Product	Description
120 259	ombra BA8-SMI-b	Sunblind actuator 8 x SMI with additional manual control option
120 256	ombra BA16-SMI	Sunblind actuator 16 x SMI
120 257	ombra BA16-SMI-b	Sunblind actuator 16 x SMI with additional manual control option
120 264	ombra BA4-SMI-LoVo	Sunblind actuator 4 x SMI-LoVo for low voltage motors
120 265	ombra BA4-SMI-LoVo-b	Sunblind actuator 4 x SMI-LoVo for low voltage motors with additional manual control option
120 268	ombra BA8-SMI-LoVo	Sunblind actuator 8 x SMI-LoVo for low voltage motors
120 269	ombra BA8-SMI-LoVo-b	Sunblind actuator 8 x SMI-LoVo for low voltage motors with additional manual control option
120 266	ombra BA16-SMI-LoVo	Sunblind actuator 16 x SMI-LoVo for low voltage motors
120 267	ombra BA16-SMI-LoVo-b	Sunblind actuator 16 x SMI-LoVo for low voltage motors with additional manual control option
110 058	clima AE8-P	Analog input, 8 channels for passive temperature sensors
120 344	clima AA4-10V	Analog I/O module, 4 channels, with individually configurable input/outputs for 0-10V/4-20mA sensors or actuators
120 348	clima AA8-10V	Analog I/O module, 8 channels, with individually configurable input/outputs for 0-10V/4-20mA sensors or actuators
120 324	clima AA4	Digital output, 4 channels, for 4 thermoelectric or 2 motor driven actuators (24VAC / 230VAC)
120 328	clima AA8	Digital output, 8 channels, for 8 thermoelectric or 4 motor driven actuators (24VAC / 230VAC)

Order no.	Product	Description
120 332	clima LA2-3	Multi stage switch, 230VAC, interlocking contacts, 2 X 3 stages, to control two 3-speed fans
120 333	clima LA2-3-b	same as clima LA2-3, but with additional manual control option
120 354	clima AA4-MP	MP-Bus actuator 4-Channels
120 358	clima AA8-MP	MP-Bus actuator 8-Channels

5. Support

The information given in this manual was carefully compiled. Should you have any further questions regarding this product, please contact:

SafeSquare GmbH

Am Graben 2-6
42477 Radevormwald
Germany

Fon: +49 (2191) 56814-0
Fax: +49 (2191) 56814-89
Email: info@safesquare.eu