

# Technical Datasheet ombra BA4-DC / BA4-DC-b

## 1. Product description



The ombra BA4-DC sunblind actuator is designed for connection to spega M/R series LON controller. The maximum switching capacity for each DC-motor is 1A.

The sunblind actuator can be operated in conjunction with other e.control actuators for lighting or sunblinds together on one controller.

In the BA4-DC-b version, the actuator has a manual control level, allowing the blind to be raised or lowered independently of the bus operation, as well as LEDs for indicating the direction of travel of the blind.

For configuration purposes, an easy LNS plug-in is available for the controller.

## 2. Mounting and installation

### 2.1. Mounting

1. Installation on DIN EN50022 rail, width 4 TE
2. The connection interface is located on the left-hand side of the housing. The actuator must only be operated with spega e.control controllers. 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.

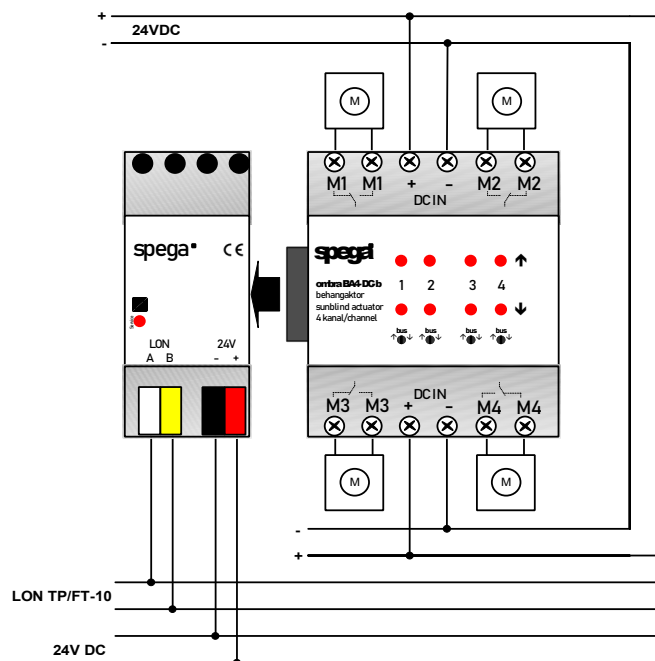


The system installer has to take care that the correct application and the associated parameters are corresponding with the wiring and the intended use of the device.



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

## 2.2. Installation



### 3. Technical Data

#### Power supply

Operating voltage	via spega M/R series LON controller
Current consumption (full load)	110 mA (2,6W)
Power dissipation (max.)	2,8 W

#### Inputs/Outputs

Actuator interface	Control interface for spega modules
Switching outputs	4 X 2 relay outputs, 1A, pole-reversing output for 4 DC motors
Output load vs. number of operation cycles	1A inductive load, at $> 1 * 10^5$ cycles of operation

#### Connections

Actuator Interface	Integrated 14 pin connector
Switching outputs	12 x 1pin terminal screw connection, Ø up to 4mm <sup>2</sup>

#### Control elements

ombra BA4-DC	-
ombra BA4-DC-b:	3-stage rotary switch for each channel. Functions: „down“, „bus“, „up“

#### Anzeigeelemente

ombra BA4-DC	-
ombra BA4-DC-b:	status LED: „down“ and „up“

#### Housing

Protection	IP 20 (EN 60529)
Dimensions	85(45) x 70 x 60 mm (H x W x D) corresponds to 4 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 60950)
Protection class	II (DIN EN 61140, VDE 0140-1)

#### Standards

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

## 4. Order information

Order number	Product	Description
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
121 000 C	sistema MC	LON Universal controller for M/R series modular actuators

## 5. Support

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

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