

**Image**



**Product description**

The lumina ST4 control output is designed for connection to the R-Series controller (order no.: 121 100C). The actuator has four analog and relay outputs each and independently controls devices with a 1-10V interface (dimmable electronic control gears, electronic transformers etc.). The maximum current load of the analog outputs is 40mA. The relays have a switching capacity of 10A.

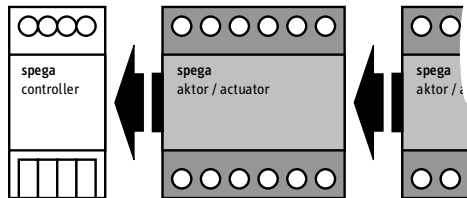
The control output can be operated in conjunction with other e.control actuators for lighting or sunblinds, up to a total of 16 channels, together on one controller.

In the ST4-b version, the actuator has a manual control level, allowing the device to be switched on or off independently of the bus, as well as LEDs for indicating the output state.

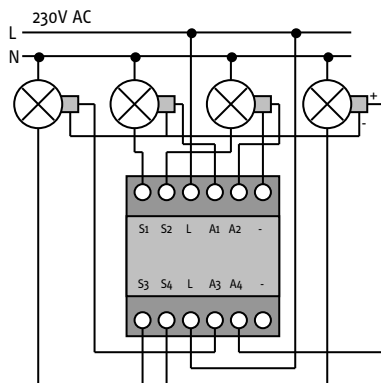
For configuration purposes, an easy LNS plug-in is available for the controller.

**Terminal diagram**

Connection to controller



Input/output connections



**spega Order information**

Order number	Description
120 144	<i>lumina ST4</i> 4 x 1-10V control outputs
120 145	<i>lumina ST4-b</i> 4 x 1-10V control outputs with manual control level
121 100 C	<i>R-Series controller for operating the actuator at the LON network, max. 16 channels</i>

## Assembly instructions

- 1 Install on a 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 a spega e.control controller. Please note the maximum space available on the DIN rail.
- 3 Note: When switching off inductive loads at the actuators (e.g. contactors or motors), high-frequency disturbing pulses may occur which could affect the operability of the bus device. It is therefore recommended that the outputs be connected using appropriate RC elements. Please refer to the manufacturer's instructions for details.



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



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



**The device specifications given in this document must be adhered to.**

## Operation

### lumina ST4:

No control and display elements

### lumina ST4-b:

Each channel can be switched on or off manually using a rotary switch installed on the front. The third switch position is used for enabling the channel for activation via the controller. When switching the device on manually, the analog output voltage is set to 10V, in order to achieve maximum brightness.

Each channel has an LED for indicating the position of the relay (On = LED pickup).

## Technical data

### Power supply

Operating voltage 24V DC (18...27V DC)  
via spega controller  
max. 80mA (1920mW)

### Current input

### Inputs/outputs

Actuator interface R-Series controller interface compatible

### Analog outputs

Four 1-10V analog outputs,  
current sink, max. 40mA

### Switching outputs

4 isolated relay outputs,  
switching capacity 10A / 250V,  
high starting currents are  
permissible (120A / <20ms)

### Switching capacities

(applicable to >10<sup>4</sup> cycles of  
operation) 2.000 W filament lamps  
1.000 W fluorescent lamps,  
corrected, cos φ = 1  
1.700 W HV halogen lamps

### Connections

Actuator interface integrated 14-pin socket

### Analog/switching outputs

12 x 1-pin screw terminals  
Ø up to 4mm<sup>2</sup>

### Control elements

Service pushbuttons ---  
Other

lumina ST4-b:  
3-step rotary switch for each  
channel with "On", "Off" and "Bus"  
positions

### Display elements

Service LED ---  
Other

lumina ST4-b:  
Output state LED  
ON: relay pickup  
OFF: relay dropout

### Housing

Type of protection IP 20 (DIN 40050 / IEC 144)  
Dimensions 85 (45) x 70 x 60 (H x W x D) –  
corresponds to 4 modular  
spacings

### Type/location of installation

Standard distribution, 35mm  
mounting rail

### Ambient conditions

Operating temperature -5°C ... +45°C  
Storage temperature -25°C ... +55°C  
Transportation temperature -25°C ... +70°C  
Rel. humidity 5% ...93% (without condensation)  
Installation height Up to 2000 m above sea level

### Safety

Electrical isolation SELV (EN 60 950)  
Class of protection I (IEC 536 / VDE 106 part 1)

### Standards/guidelines

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