

**Image**



**Product description**

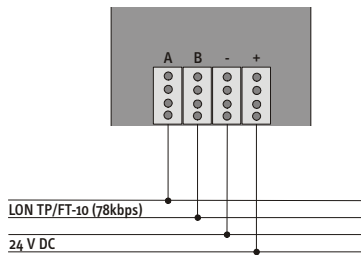
The R series controller is the intelligent interface between the LON network and the e.control R series modules. It controls up to 16 channels, which can be combined from the corresponding actuators.

The controller is always delivered as part of an R series device, but can also be ordered as spare part under the order number below.

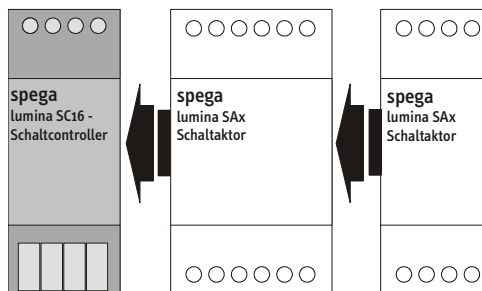
An easy LNS plug-in is available for configuration purposes.

**Terminal diagram**

Bus connection



Connection of R series modules




**spega Order information**

Order number	Description
121 100 C	R series controller Controller for R series modules


## Assembly instructions


- 1 Install on a DIN EN50022 rail, width 2 TE
- 2 The connection interface for actuators is located on the right-hand side of the housing. Only spega e.control R series actuators should be used at the controller. Please observe the maximum available space on the 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 the relevant local standards, guidelines and regulations when planning and installing electrical devices.**

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

 **Operation of the device is determined by the application program. Only programs which have been approved by spega should be used for the device.**

 **The installer should ensure that the application program and relevant parameterisation correspond with the wiring and intended use of the device.**

## Operation

### Commissioning:

Please note that for commissioning purposes, a service pushbutton and a service LED have been installed on the front end. The neuron ID is sent by pressing the button. A label with the neuron ID (in barcode and written form) is also stuck to the housing, allowing for separate localised connection.

To configure the actuator channels, use the relevant LNS plug-in (on the e.control CD or on the Internet under <http://www.spega.com>).

## Notes

Any parties responsible for the project planning and commissioning of the device must be familiar with LONWORKS<sup>®</sup> technology.

## Technical data

### Power supply

Operating voltage	24V DC (15...27V DC)
Current input	typ. 10mA (240mW) max. 20mA (480mW) without actuators

### Network

Type of network	TP/FT-10 (78kbps)
Type of transceiver	FTT

### Inputs/outputs

Actuator interface	Interface for activation via e.control R series actuators
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### Connections

Network	4-pin plug-in terminal connection for Ø 0,6 - 1,0mm (sol.), four bus lines can be connected for each pin
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Actuator interface	integrated 14-pin socket
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### Control elements

Service pushbuttons	Sends Neuron-ID when pressed
Other	---

### Display elements

Service LED	ON: no application loaded; FLASHING: module unconfigured
Other	---

### Housing

Type of protection	IP 20 (DIN 40050 / IEC 144)
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Dimensions	85 (45) x 35 x 60 (H x W x D) – corresponds to 2 modular spacings
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Type/location of installation	Standard distribution, 35mm mounting rail
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### 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