

Technical Datasheet lumina BK8

1. Product description

The input module lumina BK8 provides a direct connection to a Lon network and requires a supply voltage of 24 AC / DC.



The input module has eight internally supplied inputs, which can be configured independently.

The input module allows to use any conventional switch programs for switching or dimming of lights or electrical devices, controlling devices of all types for sun protection, retrieve or store light scenes or for processing potential free contacts, eg presence detectors, dewpoint sensors, or window contacts.

2. Mounting and installation

2.1. Mounting



The device is designed for Safety Extra Low Voltage (SELV).



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

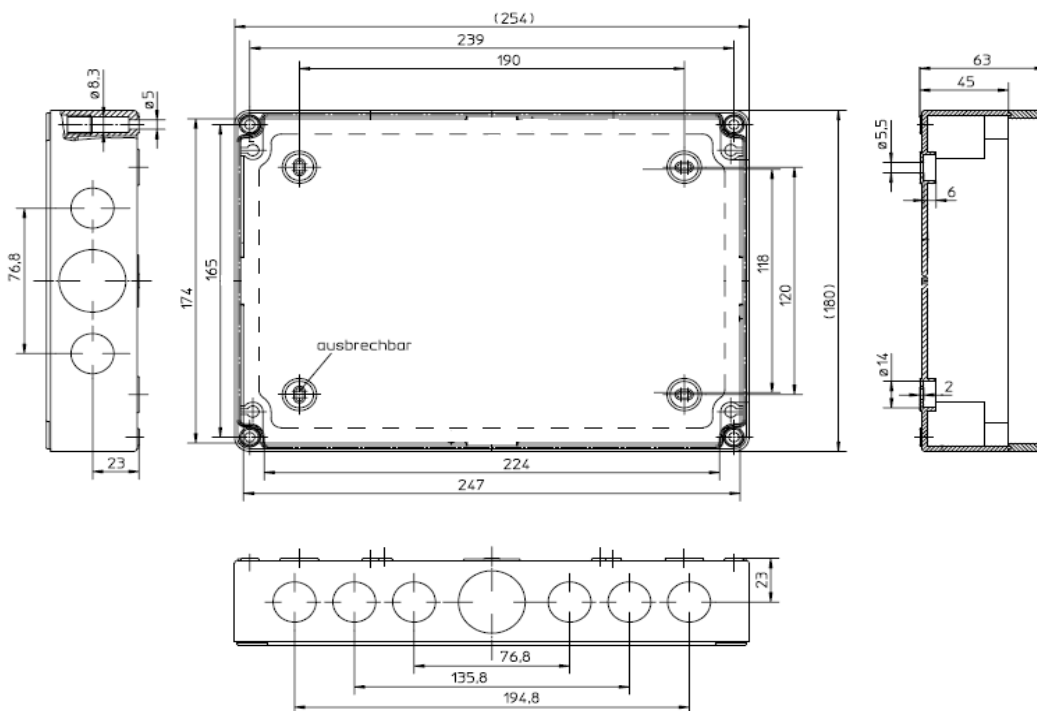


Relevant standards, guidelines, regulations and provisions of the respective country must be observed when planning and installing electrical systems.



The device specifications must be observed.

The installation of the input module is in hollow floors, suspended ceilings or directly to ventilation ducts. The existing mounting points can be found in the following figure:

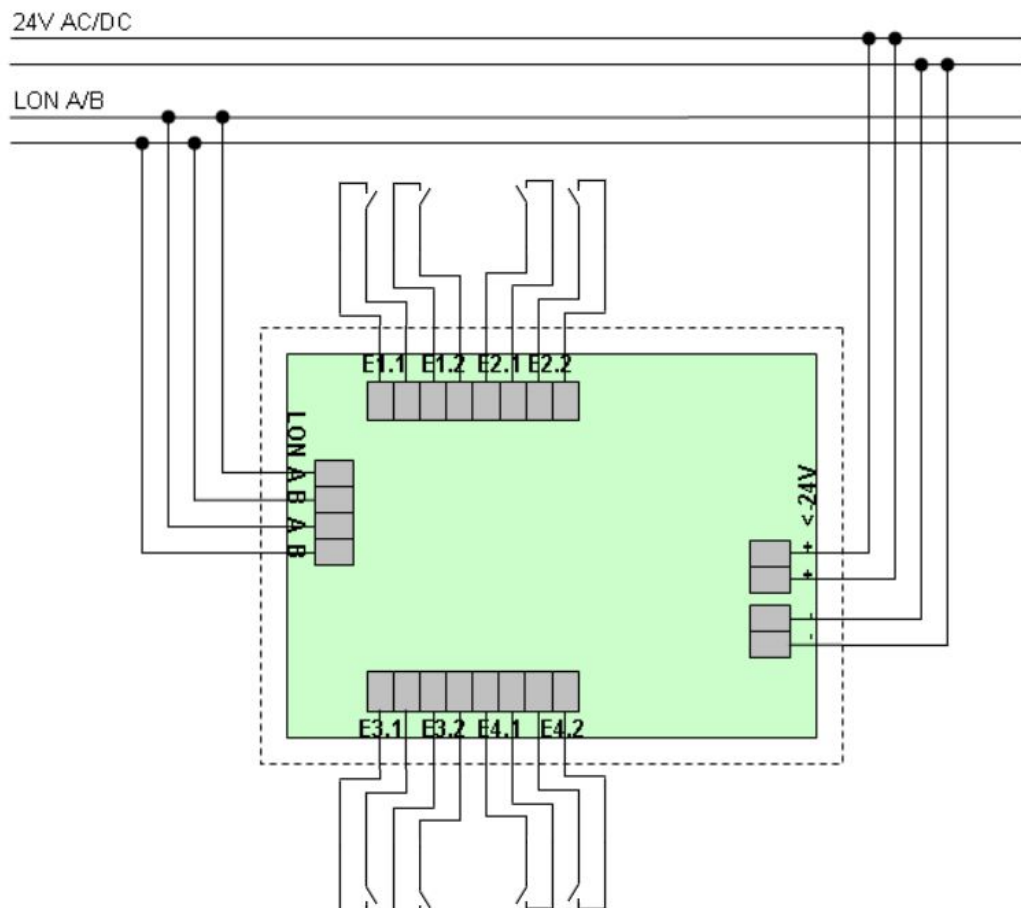




The included cable entries provide a IP65 degree of protection with adequate strain relief. To increase the strain relief alternatively cable glands can be used.

2.2. Installation

The binary input module lumina BK8 has a TP/FT-10 Transceiver to connect it to the LON network. The required operating voltage of the module is 24 V AC / DC. Please use the following wiring diagram:



3. Technical Data

Power supply

Operating voltage	24V AC/DC
Current input	max. 180 mA

Network

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

Inputs

Binary inputs	8 inputs for potential-free contacts, contact supply 24V DC, 5mA current
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Terminals

Power supply	1 x 2-pole (+) and 1 x 6-pole (-) clamp terminal for solid or flexible wires (0,1 - 2,5 mm ²)
Network	1 x 4-pole clamp terminal for solid or flexible wires (0,1 - 2,5 mm ²)
Binary inputs	2 x 8-pole clamp terminal for 8 inputs each for solid or flexible wires (0,1 - 2,5 mm ²)

Control elements

Service push-button	Sends Neuron-ID when pressed
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Display elements

Service LED	Device status
Communication LEDs	Activity during transmission/reception on the LON bus
LED status indicators	Status of binary inputs

Housing

Type of protection	IP 65 (DIN 40050 / IEC 144)
Dimensions	63 x 254 x 180 mm (h x w x d)
Type/location of installation	Assembly on ventilation ducts, in hollow floors, suspended ceilings

Ambient conditions

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

Safety

Electrical isolation	SELV (EN 60950)
Insulation class	III (IEC 536 / VDE 106 part 1)

Standards

Device safety	acc. EN 50 090-2-2
Interference immunity	acc. EN 50 090-2-2
Certification	CE

4. Revisions

The lumina BK8 device is currently available in revision 2. In the course of the product update, the neuron firmware of the e.control device has been renewed.

Since the new revision requires a modified device application, we distribute both software versions. You can determine which revision your e.control device has by looking at the neuron ID sticker on the case:

Revision	Application	Information
Rev 1	SC111008EC_24	Original from lumina B8, compatible to BK8 Rev1
Rev 2	SC411008EC_14	XIF upgrade from SC111008EC_24 possible

For revision 2 the following application note must also be observed:

The present product uses a processor of a newer generation for which the application download is only supported from LNS version 4.02. For this reason, with lower LNS versions you also need the Spega Update Tool, which you can download from the download area on our homepage www.spega.de.

We recommend the following procedure for LNS versions lower than 4.02:

- 1) With the current setup, a new device template for the current device appears in the system plug-in "Device template manager". Add this to your network.
- 2) Create the required devices offline in your database (without commissioning them) and note down the corresponding Neuron ID's.
- 3) Then close your database and start the Spega Update Tool. Make sure that there are no routers between the LON interface of your PC and the devices, use a local interface if necessary.
- 4) Now load the desired application into your devices with the Spega Update Tool.
- 5) You can then reopen your database and commission the devices without explicitly loading the application.

5. Order information

Order number	Description
411 008	lumina BK8

6. 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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