

LCN060-L technolon® light/blinds controller

Bus-communicating technolon® light/blinds controller.
Relay switch module for switching 6 binary outputs for lights and blinds.



Subject to change

Contents	Page
LCN060-L technolon® light/blinds controller.....	1
Information about the device description	2
Safety instructions.....	2
Qualified technicians.....	2
Application.....	3
Type	3
Technical data.....	3
Dimensions	4
Connection.....	4
Installation	4
Functional profile/network variables.....	5
Load guideline.....	6

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Information about the device description

The description contains information for using and installing the LCN060-L technoLon® light/blinds controller. If you have questions that are not covered by the device description, contact the supplier or manufacturer for further information.

The specified regulations/guidelines for mounting and installation apply for the Federal Republic of Germany. When the unit is used in other countries, local regulations are to be complied with at the personal responsibility of the system installer or operator.

Operating personnel are to be instructed according to the description of the technical data sheet.

Safety instructions

The valid work protection, accident prevention and VDE regulations are to be observed for installing and using the units.

Installation and set-up work on the units may only be carried out by qualified technicians. See section "Qualified technicians".

Each person who uses the unit must have read and understood the descriptions in the technical data sheet.

If the unit is not used according to the device description, the protection provided could be impaired.

Meanings of symbols in the technical data sheet:



Warning of dangerous electric voltage

Danger



Additional note to be observed

Note

Danger Means that non-observance could lead to life-threatening danger, serious bodily injury or major material damage.

Note Indicates information pointing out something that should be given special attention.

Qualified technicians

Qualified technicians in the context of the technical data sheet are persons who are familiar with the devices equipment described, and have the necessary qualifications for their job.

This includes, for example:

- Authorization to connect the units in accordance with VDE regulations and the local energy supply company regulations, as well as authorization for switching on, off and enabling devices under observance of in-house regulations
- Knowledge of accident prevention regulations
- Knowledge of the use of devices within the system
- etc.

Application

Bus-communicating technolon® light/blinds controller module with 6 binary outputs (BO) for lights and blinds.
 Bus-communicating relay module with open communication using the LonTalk protocol for directly switching up to 6 electrical loads for light and blinds assemblies.
 Standard software application in accordance with LonMark profiles 3200 “Switch”, and 3251 “Scene Controller” for switching light circuits and in accordance with the “Blinds controller” profile for controlling blinds assemblies. Comprehensive configuration using the user-friendly and standardized LNS3 plug-in in conjunction with a LNS3-based network management tool. Light and blinds assemblies that are connected can be assigned using the LNS3 plug-in. The switching outputs can be configured with differing operating modes.



LCN060-L

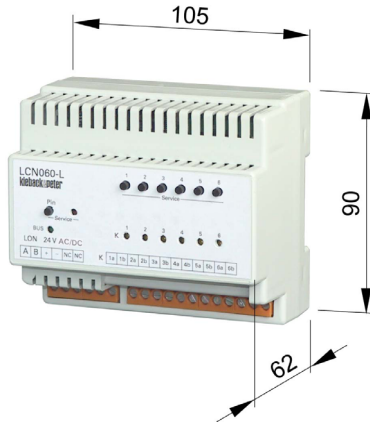
Type

LCN060-L technoLon® light/blinds controller

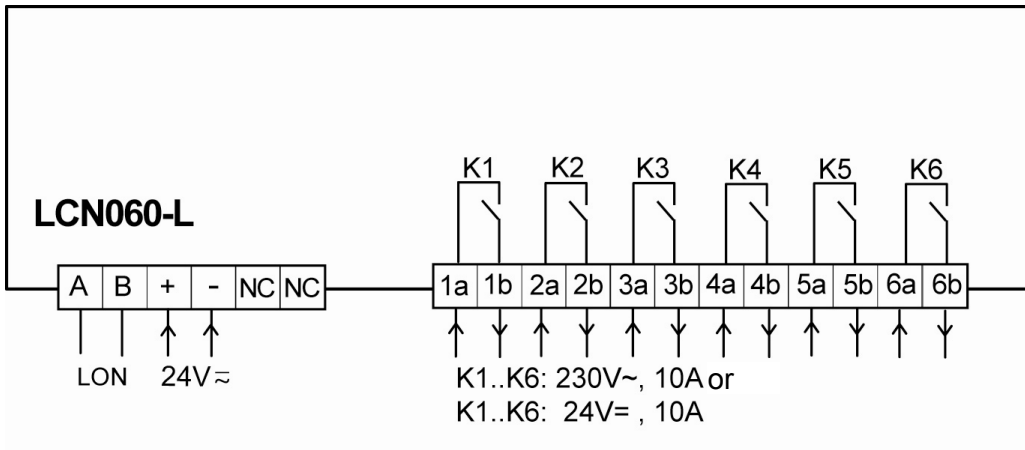
Technical data

Nominal voltage	AC/DC 24V, 3.6VA / DC 24V, 2.5W
Outputs	6 binary outputs BO AC 230V, 10A or DC 24V, 10A Outputs may be used only for AC 230V or DC 24V; may not be combined. (See page 6 for load guideline) Assemblies may only be operated on one mains phase According to DIN 42871, the coincidence level of 0.5 should be observed.
Bus connection	LON FTT10
Standards	LonMark® functional profile 3200 “Switch”, 3251 “Scene Controller”
Displays	6 yellow output LEDs to display the switching status of the relay outputs 1 red service pin LED 1 green bus LED
Control elements	6 service buttons
Degree of protection	IP20 (when installed)
Ambient temperature	0..45°C
Ambient humidity	20 – 80% r.h., non-condensing
Housing	Plastic housing
Installation	Standard rail EN 50022 in closed housing This device is intended for installation in a protection class II wall-mounted enclosure or a protection class II control cabinet
Dimensions	WxHxD 105 x 90 x 62mm
Weight	0.30kg

Dimensions



Connection

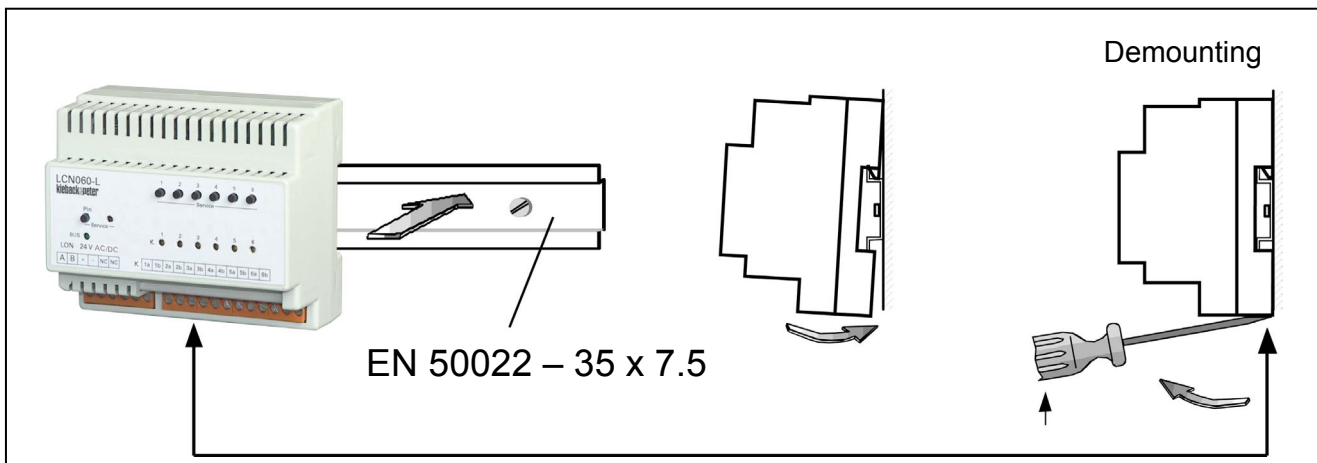


Installation

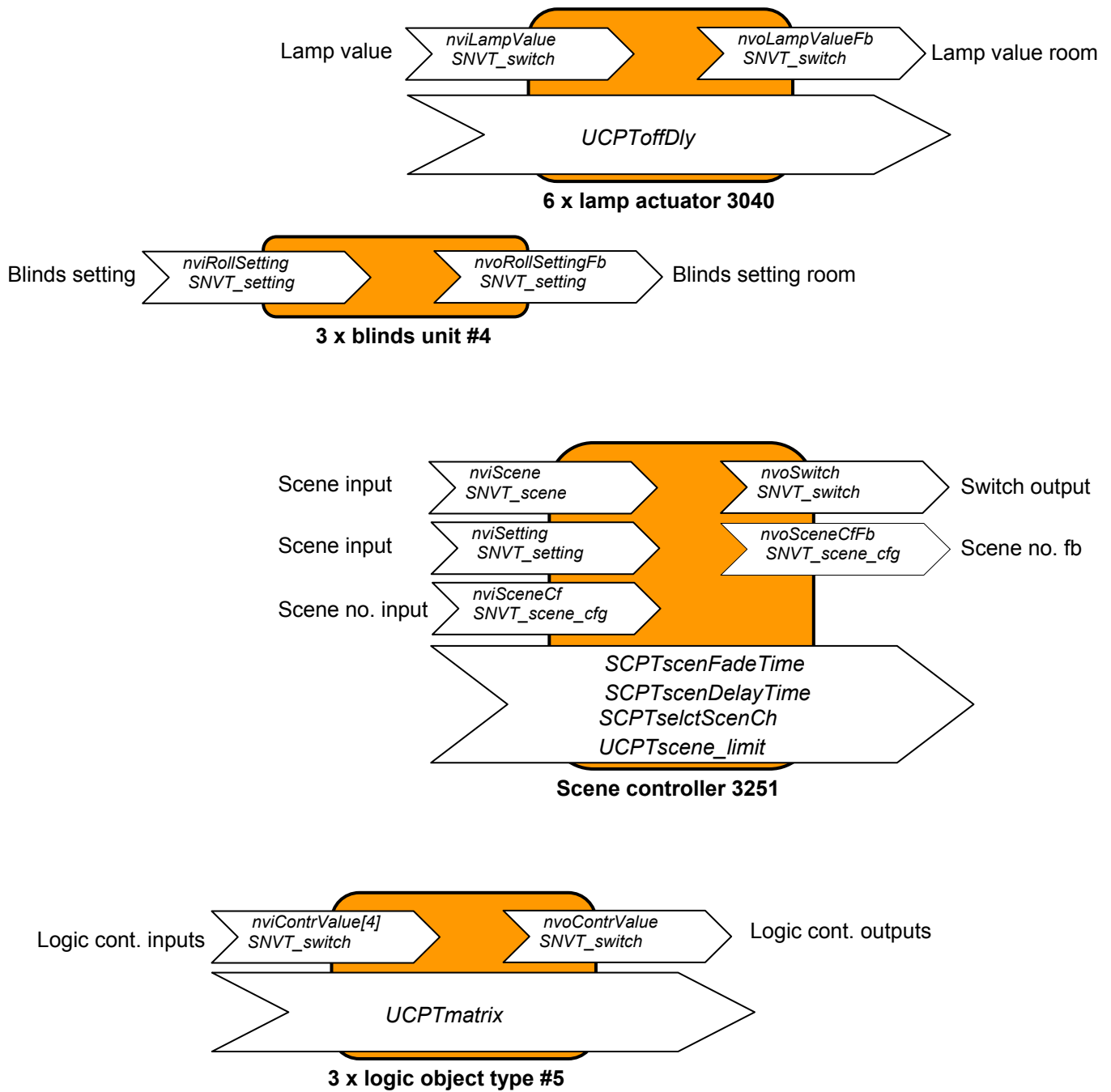


Danger

Mounting/demounting may only be carried out by qualified skilled specialists and in a control cabinet with the voltage switched off.



Functional profile/network variables



Load guideline

Observe the following table when planning and utilizing the relays:

Properties of the 10A relay outputs:

Load property	Additional condition	Permitted load 10A	Number of switching cycles
Basic specifications			
Ohmic load	$\cos\varphi = 1$		100,000
Maximum switchable capacitance		30 μ F	Min. 5,000
			Min 20,000 (acc. to EN 60669-1)
Inrush current for 20ms at AC 230V		100A	Dependent on the load
Sample specifications			
Incandescent lamps		8 x 100W	100,000
		12 x 100W	50,000
		16 x 100W	20,000
Halogen lamps AC 230V		400W	100,00
		800W	50,000
Fluorescent lamps AC 230V with conventional ballasts	Non-compensated with $\cos\varphi$ 0.4-0.6	48 x 18W	25,000
		24 x 36W	25,000
		14 x 58W	25,000
	Capacitance compensated	6 x 18W	25,000
		5 x 36W	25,000
		4 x 58W	25,000
	Standard duo wiring of fluorescent lamps	10 x 18W	25,000
		8 x 36W	25,000
		4 x 58W	25,000

Using the table:

Basic specifications: The specifications listed in this category are the manufacturer-specific specifications for the properties of the relay.

Sample specifications: The specifications listed in this category are the specifications that were tested with the selected load.

Practical application: If, during planning, load specifications for electronic ballasts are not available, plan as follows.

- for the 10A module, use 4 electronic ballasts per relay with 25,000 switching cycles