

Instruction and Mounting Manual

Light Control SLS ADRIA

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1 Introduction

This instruction and mounting manual contains important notes regarding the connection and safe operation of the device. You are urgently required to read and observe the safety instructions mentioned herein.

The instruction and mounting manual must be carried inside the vehicle at all times. All safety regulations should also be communicated to other users.

2 Safety instructions

2.1 Meaning of the safety symbols

DANGER!

Ignoring this sign may threaten life and limb.

WARNING!

Ignoring this sign may lead to injuries to persons.

NOTE!

Ignoring this sign may damage the device or connected loads.

- **A** .
- This sign refers to recommendations or particularities.

2.2 General safety information

The device is built according to state-of-the-art technology and the generally recognised technical safety regulations. If the safety instructions contained in this instruction manual are ignored, however, persons may be injured or the device may be damaged.

Only use the device in a technically faultless condition.

Ensure that any faults affecting the safety or security of persons or the device are eliminated by qualified personnel immediately.

Danger!

- The electrical system of the camper or caravan must comply with valid DIN, VDE and ISO standards.
- Do not manipulate the electrical system in any way.
- Do not make any changes to the device.
- The electrical connection must only be carried out according to the instruction manual by qualified personnel trained for that purpose.
- Do not put the device into operation if the connection or any cables are faulty.
- Do not carry out any maintenance work on the device if voltage is applied.
- Implement electrical connections properly.
- Ensure that the correct electrical fuse is used.



NOTE! Risk of overheating!

- Damage to devices is possible.
- Maintain a sufficient distance to furniture and fixtures.
- Do not block ventilation slots.

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3 Brief description

Your vehicle is equipped with a central light system designed for both the switching and dimming of individual light circuits (channels). It also has three scene functions that make it possible to save a preferred illumination situation of the vehicle as a scene or recall it.

The system features a power-save mode and switches to STANDBY mode if not used for a long time. An automatically operated K9 channel operates additional light circuits with an own switch e.g. wet rooms, wardrobe lights or even reading lights. The K9 channel is only deactivated if the system is in STANDBY mode.

4 Components

The SLS ADRIA light control is only used to control the 12V living space lighting of the camper or the caravan.

The scope of the SLS ADRIA light control includes:

- a) One operating panel featuring 7 buttons with associated SLS43KT mounting frame
- b) One or two operating panels featuring 3 buttons with associated SLS44KT mounting frame
- c) SLS94H control
- d) The required connecting cables between the control and the operating panel

Schema





The SLS ADRIA light control is only intended to be connected to a 12V voltage supply (DC).

At the voltage supply, supply lines 1 to 3 must be fused at the maximum permissible current of the voltage supply – but not at more than 15A respectively. The supply lines must furthermore not be fused in a combined way on only one cable together with the total current!

The voltage supply must definitely be configured for the required current.

A 12V accumulator to buffer and balance short-term current peaks (e.g. when switching on) is advantageous for stable supply; however, please follow the instruction manual of the voltage supply also in this case.



The SLS ADRIA light control is protected against pole reversal of the supply connections.

The outputs K1 to K8 are protected against excess temperatures, overload and short circuits, K9 against short circuits because of the fusing of the line 3 voltage supply.

Ongoing faulty operating states, such as pole reversal, short circuits or overload, should nevertheless be avoided to avoid damage to the light control.

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5 Mode of operation

5.1 Basic functions

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	System is Swit	CHED ON/ACTIVE	System in STANDBY
Function	Short actuation	Long actuation	Actuation for approx. 0.5s
K1 K8	Switching on or off channel K1K8; when switching on, the last brightness level prior to switching off is assumed	Dimming ²⁾⁵⁾ Channel K1 … K8	Switching on channel K1K8 ⁴⁾
Button	Like function K7	Like function K7	Like function K7 ⁴⁾
S1	Switching on SCENE 1	Programs ³⁾ current setting as SCENE 1	Switching on SCENE 1 ⁴⁾
S2	Switching on SCENE 2	Programs ³⁾ current setting as SCENE 2	Switching on SCENE 2 ⁴⁾
\bigcirc	Standby ¹⁾	Programs ³⁾ current setting as "COMING HOME"	Switching on SCENE "Coming home" ³⁾

Note:

- 1) Channel K9 is switched off as well
- 2) Button must be actuated for at least 1 second. After switching on the channel, the intensity is first reduced, then the intensity is increased or reduced alternately when the button is actuated again
- Button must be actuated for at least 10 seconds; programming is acknowledged by the channels K1-K8 being switched off temporarily
- 4) Channel K9 is always switched on as well
- 5) May be deactivated for individual channels, depending on the equipment

5.2 Operating panels



The actual keyboard configuration may differ in individual cases.

5.3 External button

The external button "coming home" corresponds to the function K7 of the panel.



Special functions 5.4

5.4.1 **Energy-saving mode STANDBY**

Light control switches to STANDBY mode (switching off of the light circuits) if, in the ACTIVE mode,

- 1. The ⁽¹⁾ button is actuated
- No button is actuated within 24 hours. 2.

The maximum operating current of the light control in STANDBY is 2mA



5.4.2 **Reserve connection**



Should the light control fail, it is still possible to provisionally connect a lamp to the X15 position.

Since X15 is directly connected to the line 3 supply line, it must be observed that the maximum current of line 3 on the supply side must not be exceeded (see chapter 4).

Mechanical installation 6

6.1 SLS94H control

Mounting

- Wall mounting vertically in all 4 directions
- Floor mounting lying horizontally

Distances

- At least 50mm to all sides except for the mounting surface
- Air exchange via convection necessary



Fixing is done using four tapping screws Ø3.5 in the designated mounting holes on a solid and plane surface



For mounting, the cover must be removed and snapped in again afterwards.

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- Mounting
- Wall mounting vertically in all 4 directions
 Ceiling mounting horizontally overhead

At least 20mm to all sides except for the mounting surface

Distances



 The SLS44KT frame is fixed on a solid and plane surface using four screws Ø2.9 in the designated mounting holes



(SLS26KT)

After mounting the frame, the cable is attached and the operating panel snapped into the frame

6.3 SLS63KT operating panel

Wall mounting vertically in all 4 directions

At least 20mm to all sides except for the mounting surface

Ceiling mounting horizontally overhead

- Mounting
- Distances



 The SLS 43KT frame is fixed on a solid and plane surface using four screws Ø2.9 in the designated mounting holes



After mounting the frame, the cable is attached and the operating panel snapped into the frame

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7 Electrical connection

7.1 Location of the SLS94H connection points

The location of the SLS94H connection points can be seen from the nameplate:



7.2 Connection to power supply

The power supply is connected to the terminals.

- 12VDC (line 1-3) for 12V (maximum recommended cable length 2.5m)
- GND (line 1-3) for ground (maximum recommended cable length 2.5m)

7.2.1 12VDC (line 1-3)

Power supply 12VDC

		Push-on receptacle (<u>5.3 x 0.8</u>	
Fct	Pin		Pin	Fct
12VDC	1	Mind. 2.5mm ²	1	12VDC

7.2.2 GND (line 1-3)

Power supply ground

SLS94H	"GND"

SLS94H "12VDC"

Push-on receptacle 6.3 x 0.8 angled

Fct	Pin				Pin	Fct
Ground	1	2.5mm ²		2.5mm ² *)	1	GND
Ground	2	2.5mm ²	6mm²	2.5mm ² *)	2	GND
Ground	3	2.5mm ²		2.5mm ² *)	3	GND



The length of the cable sections marked with *) should not exceed 50mm.

7.3 Connection of lamps to channels

- The lamps are connected to the individual channels using push-on receptacles 6.3x0.8 at the terminals marked with K1-K9
- The cable cross section of the connection lines must be at least 1mm²

Distribution channels maximum power loss per channel:

					-				
	K1	K2	K3	K4	K5	K6	K7	K8	K9
Line 1				Х	Х	Х	Х		
Line 2	Х	Х	Х						
Line 3								Х	Х
P _{max} Channel	90W	90W	90W	90W	90W	90W	90W	90W	180W
P _{max} Line	180W			18	WO		18	0W	

The maximum power loss of line 1-3 (per 180W or max. power of power supply) must not be exceeded



- The max. cable length is 15m
- Not suitable for LED lamps with ballast

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7.4 Connection SLS26KT (I) with cable SLS19KT



SLS94H "SUB" LUMBERG 3823 14				SLS26KT LUMBERG MICA 06		
Fct	Pin				Pin	Fct
GND	1	Wire 1		Wire 1	1	GND
n.c.	2	Wire 2		Wire 2	2	n.c.
I/O	3	Wire 3		Wire 3	3	I/O
GND	4	Wire 4	Ribbon cable 6xAWG26	Wire 4	4	GND
S2	5			Wire 5	5	SW2
S1	6			Wire 6	6	SW1
K8	7	Wire 5				
K7	8	Wire 6				
K6	9		-			
K5	10					
K4	11					
1/0	10					



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SW1

SW2

The cable length is 15m

K2

K1



Connection SLS63KT with cable SLS09KT/SLS39KT 7.6

SLS94H "S	SUB"		SLS63KT			
LUMBERG 3823 14				LUMBERG MICA 10		
Fct	Pin				Pin	Fct
GND	1	Wire 1		Wire 1	1	GND
n.c.	2	Wire 2		Wire 2	2	n.c.
I/O	3	Wire 3		Wire 3	3	I/O
GND	4	Wire 4	Ribbon cable 10xAWG26	Wire 4	4	GND
S2	5	Wire 5		Wire 5	5	SW2
S1	6	Wire 6		Wire 6	6	SW1
K8	7			Wire 7	7	SW4
K7	8			Wire 8	8	SW3
K6	9			Wire 9	9	SW6
K5	10			Wire 10	10	SW5
K4	11	Wire 7				
K3	12	Wire 8				
K2	13	Wire 9				
K1	14	Wire 10				
	_	-				



The cable length is 5m (SLS09KT) or 15m (SLS39KT)

Button

7.7 Connection of external buttons SLS94H "BUTTON"



Fct	Pin			
n.c.	1			
n.c.	2		Pin	Fct
BUTTON	3	Ribbon cable 2xAWG26		BUTTON
GND	4	or LiYY 2x0.14mm ²		GND
 The ma 	ax. cabl	e length is 15m		

First start-up 8

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8.1 Check before start-up

- 1. Checking all cable connections (proper connection, damage, short circuits)
- 2. Checking correct polarity of the connecting lines to the power supply
- 3. Checking of the line 1 to 3 fusing on the power supply

8.2 Start-up

- 1. Switching on power supply unit
- 2. Actuation of \bigcirc button on the panel to activate the system
- 3. Checking all key functions
- 4. Actuation of ⁽⁾ button on the panel to deactivate the system ("STANDBY")

Rev. 03/ 09-11-10



9 System malfunctions



In most cases, a malfunction of the light control can be traced back to faulty lamps or fuses; these should therefore be checked first.

If you cannot eliminate malfunctions on your own by means of the subsequent table, please contact your specialist dealer.

If this is not possible, e.g. due to a stay abroad, a specialist workshop can also carry out the repair work. In this case, it must be noted that the warranty is forfeited if the repair work has been carried out improperly and ABL SURSUM is not liable for any consequential damage.

Malfunction	Possible cause	Remedy
No lamp can be switched	No supply voltage	Check fuses of the voltage supply
		Check supply lines for cable break
		Check if the plug at SLS94H and the voltage supply are in their correct places
	SLS94H faulty	Contact customer service Temporary solution acc. to 5.4.2
Individual lamps cannot be switched	Lamp faulty	Check illuminant
	Faulty cable to lamp	Check cable for short circuit or cable break
		Check if the plug at SLS94H is in its correct place
	No supply voltage of the corresponding Line	Check the voltage supply fuse of the corresponding line
		Check supply line of the corresponding line
		Check if the plug at SLS94H and the voltage supply are in their correct places
Operating panel without function	Faulty cable	Check cable for short circuit or cable break
		Check if the plug at the operating panel and SLS94H are in their correct places
	Faulty operating panel	Contact customer service
External button without function	Faulty cable	Check cable for short circuit or cable break
		Check if the plug at the button and SLS94H are in their correct places
	Faulty button	Check button for function
	Faulty external button	Contact customer service
All lamps are always on	Polarity of supply lines is reversed	Check connection supply lines at voltage supply

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10 Technical data

10.1 Environmental conditions

Ambient temperature (storage)	-30°C 85°C
Ambient temperature (operation)	-20℃ 50℃
Humidity	10% 90% rH (not condensing)



10.2 Voltage supply

Line 1	10V 15V, max. 15A
Line 2	10V 15V, max. 15A
Line 3	10V 15V, max. 15A



10.3 Outputs K1-K9

Max. individual power K1-K8	90W or 7.5A
Max. individual power K9	180W or 15A
Max. total power K1-K3	180W or 15A
Max. total power K4-K7	180W or 15A
Max. total power K8-K9	180W or 15A

11 Declaration of conformity

ABL SURSUM Bayerische Elektrozubehör GmbH & Co. KG hereby confirms that the components of the SLS ADRIA light control meet the requirements of the guidelines and standards mentioned above:

Directive on the radio interference (electromagnetic compatibility) of vehicles 72/245/EEC in the version 2006/28/EC

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