

B.

Berker

310 965 02

Operating instructions

**Brightness and temperature sensor surface-mounted
7549 20 02**

1. Use

The **brightness and temperature sensor** is suitable for brightness and temperature measurement for the **KNX** building management system.

2. Safety

Electrical equipment may only be installed and assembled by a qualified electrician. The national regulations and safety directions must be observed. Please observe the rules and instructions in the ZVEI/ZVEH manual for building management systems to ensure that the bus cables are laid correctly and commissioning of the **KNX** devices is carried out correctly. Interventions in and modifications to the device will invalidate the warranty.

3. Measurement ranges

Measurement range for brightness measurement

1 to 100 000 lux (tolerance $\pm 20\%$ resp. ± 1 Lux)

Measurement range for temperature measurement

-25 °C to $+55\text{ °C}$ (tolerance 5% resp. ± 1 Grad)

(The larger tolerance applies in each case.)

4. Selecting the installation location

Please note when selecting the installation location

- that the **brightness and temperature sensor** is exposed to no or to minimal dirt, as a dirty sensor has an adverse effect on the brightness measurement.
- that direct sunlight can interfere with the temperature measurement.

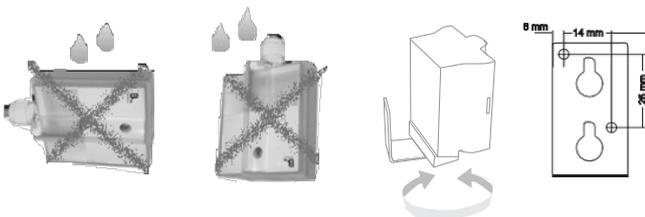
5. Installation of the sensor



Install the brightness and temperature sensor only in a vertical position!

Consequence on non-observance

Moisture and/or dirt can get into the housing! This will result in device malfunctions and will short-circuit the bus cable.



6. Bus connection

- Push the bus cable through the nipple grommet into the terminal compartment.
- Connect the bus terminal to the inserted cable. Pay attention to polarity.
- Press the bus terminal completely onto the contact pins.



7. Entry of the physical address

The ETS assigns the physical address, the group addresses; the setting of parameters is also done with the ETS.

Loading of the physical address:

- Press button 1. LED 2 lights up.
- The physical address can be assigned by the ETS.



8. Installing and maintaining the cover

Installing the cover

- Place the cover carefully over the installed device.
- Screw on the cover

Maintaining the cover

- Clean the cover from time to time, so that the measured values during brightness measurement are not corrupted by dirt deposits. Use a moist cloth for this.

9. Technical data

Brightness and temperature sensor	7549 20 01
Operating voltage	bus voltage
Bus coupling unit	integrated
Temperature measuring range	-25 °C to $+55\text{ °C}$
Tolerance	$\pm 5\%$ resp. ± 1 degree
Brightness measuring range	1 to 100 000 Lux
Tolerance	$\pm 20\%$ min. ± 1 Lux
Power consumption	$< 150\text{ mW}$
Degree of protection built-in	IP 54
	with vertical installation with attached cover

10. Warranty

We reserve the right to realise technical and formal changes to the product in the interest of technical progress. Our products are under guarantee within the scope of the statutory provisions. If you have a warranty claim, please contact the point of sale or ship the device postage-free with a description of the fault to our Service Center.

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