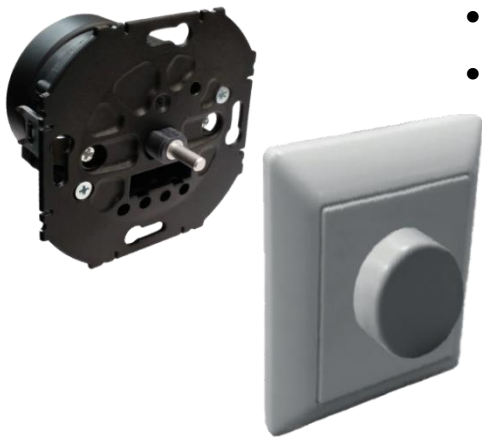


# Installation and Operation Guide - *K-ZWALLY*

# 1 OVERVIEW

## About the K-ZWALLY



- Control unit for NeoLink and ZigBee 3.0 luminaires\*
- Rotary control for wall installation

### At the installation location:



- Flush-mounted connector socket:  
**Minimum depth: 61mm**
- 230V AC cable (supply voltage for the K-ZWALLY)

*\*The K-ZWALLY can be only used in combination with NeoLink or ZigBee luminaires by KITEO or in combination with NeoLink or ZigBee PI-LED systems by Lumitech.*



### ATTENTION:

The K-ZWALLY is solely intended for use in dry, indoor spaces.

## The complete system: everything at a glance

### STEP 1: Assembly

Install the K-ZWALLY

### STEP 2: Creating the network

Register luminaires at the K-ZWALLY

### STEP 3: Operation

Control luminaires with the K-ZWALLY

### Network ranges:

max. 7m (clear view)<sup>2</sup>



max. 10m

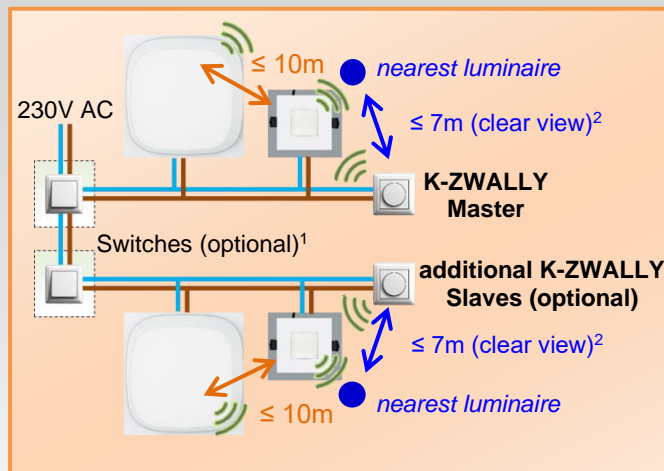


### INFORMATION:



The ranges stated are approximate values.

The actual ranges may vary depending on specific structural conditions.



### NOTE:

The "night lowering" is only active if:  
- the luminaires are switched by the Wally  
- luminaires AND Wally are set to OFF/ON by a switch (in the second case, it takes several seconds until the night lowering gets active when switching Wally and luminaires ON during the night)

<sup>1</sup>... Operating the luminaires **without using switches**: The luminaires can only be switched to stand-by mode.

Operating the K-ZWALLY **with switches** (i.e. switches for lights and K-ZWALLY): the K-ZWALLY requires a start-up period of approximately five seconds each time it is switched on. Afterwards either the daylight sequence or the night lowering (between 23:30 and 05:00 for the "Residential" type) is active.

The K-ZWALLY can also be operated on a permanently powered basis.

<sup>2</sup> ... If the distance between the K-ZWALLY master and the first luminaire is greater than 7m or if there are apparent structural obstructions (e.g. walls) between the K-ZWALLY master and the first luminaire →

**Recommended: Swap STEPS 1 and 2** (see Section 5)

## 2 ASSEMBLING the K-ZWALLY

### 2.1 Installation in a flush-mounted connector socket

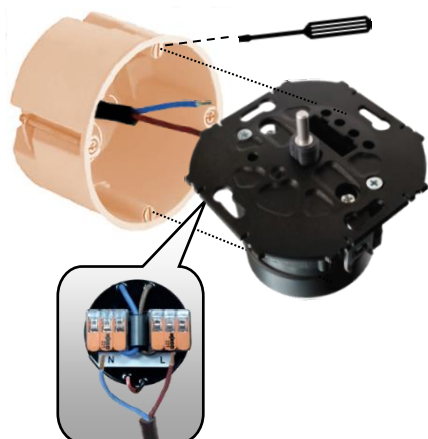


#### Danger due to electrical voltage!



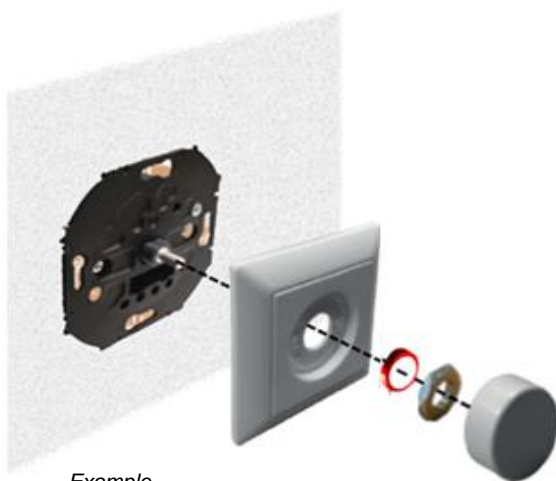
Before performing installation work on the K-ZWALLY, switch off the voltage to all components and the relevant circuit and check that they are voltage free.

The power supply unit must not be removed or disassembled from the K-ZWALLY.



- Connect the K-ZWALLY to the 230V AC connection lines (L-N).
  - To do this, connect the phase and neutral wire to both 3-pin terminals. Ensure that the connection lines are securely anchored in the terminals.
  - If necessary, the 230 V AC supply can be looped through on the third three pin (e.g. a socket).
- Insert the K-ZWALLY into the flush-mounted junction box.
  - If the K-ZWALLY is flush to the wall: Fix the K-ZWALLY to the flush-mounted junction box using screws

### 2.2 Putting on the cover frame



Example

- The cover is an optional accessory and is therefore not included in the scope of delivery
- The K-ZWALLY is designed for various switch programs
- The shaft diameter of the rotary potentiometer on the K-ZWALLY is 4mm. An adapter sleeve is available for a rotary knob with a 6mm shaft diameter.

#### Assembly:

- The cover frame is put on centrally on the K-ZWALLY.
- The hexagon nut is screwed tight using a wrench or combination pliers and the control knob is put on.



#### **Information:**

*Only put on the cover frame and the control knob after network configuration (see Section 0).*

### 3 NETWORK CONFIGURATION with the K-ZWALLY Master



Creating the network is a **one-time process**.

**Up to 200 luminaires** can be logged in to the network of one K-ZWALLY Master.



Requirement: All NeoLink or ZigBee luminaires are ready for use, the K-ZWALLY is active.

Important indications:

- For the network build-up, a **minimum distance between K-ZWALLY and luminaires** is optimal (e.g. place luminaires in immediate vicinity of the K-ZWALLY).  
→ The luminaires should be installed/mounted **only after** network build-up.

→ When the K-ZWALLY is active, the green status LED on the K-ZWALLY shines constantly.

- A maximum of **25 luminaires** can be logged in to the network of the K-ZWALLY **per run**. For a higher number of luminaires, proceed as follows:
  - If there are no luminaires logged in yet, switch on the first 25 luminaires. Switch off the remaining luminaires (current-free).
  - Log in the first 25 luminaires (see right) to the network of the K-ZWALLY.
  - Leave the already logged in luminaires switched on after the first and each further run. Switch on the next maximum 25 luminaires and start the next run.

#### Register luminaires to the K-ZWALLY Master – description of one run



##### STEP 1: Open network

Press for ≥ 5 seconds & release → The status LED flashes, the K-ZWALLY Master network is now opened for three minutes<sup>1</sup>

**Attention:** As long as the network is open, the K-ZWALLY and all active luminaires must not be switched off (current-free)!



##### STEP 2: Automatic network login of the luminaires

NeoLink or ZigBee luminaires change their colour from neutral white (4000K) to green when logged in to the network of the K-ZWALLY Master.

After three minutes: network closes automatically → Status LED on the K-ZWALLY shines constantly.



**Information:** If all luminaires are in the network before the 3 minutes have expired → Press for ≥ 5 seconds and release → the Status shines constantly and the network is closed



##### STEP 3: Network check

Turn the K-ZWALLY → all luminaires in the network have to change their brightness

#### TROUBLESHOOTING

**Not all of the luminaires have registered to the K-ZWALLY Master within 3 minutes:**





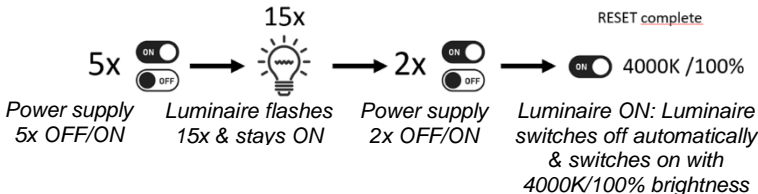
- Switch off the luminaires and the K-ZWALLY for a few seconds (current-free) and switch them back on again (please note the start-up time of approximately five seconds for the K-ZWALLY)
- Reopen the network

Repeat these two steps a few times if necessary. If not all luminaires have registered in the network after repeating the process a few times, go to Section 5.

<sup>1</sup> If you would like to set up several networks with several K-ZWALLY Masters, ensure that only one network is opened at one time. For each K-ZWALLY Master, only switch on those luminaires that should be assigned to this Wally (all other luminaires have to be current-free).



## 5 SPECIAL APPLICATIONS & TROUBLESHOOTING

Situation	Description / context	Solution / approach
<b>Issues for network build up</b>	Luminaires do not register to K-ZWALLY	<ol style="list-style-type: none"> <li>1. Disassemble the K-ZWALLY and connect the Europlug cable to the K-ZWALLY, ensuring that the cable length is sufficient</li> <li>2. Now place the K-ZWALLY near the non-registered luminaires (&lt; 7m from the luminaires!)</li> <li>3. Build up the network, following the instructions in Section 0</li> </ol> 
<b>Additional K-ZWALLY(s)</b>	<p>In the existing network, an additional K-ZWALLY is required to control the luminaires (e.g. as a second control element in the room).</p> <p>The K-ZWALLY which owns the network is the <b>K-ZWALLY Master</b>. All additional K-ZWALLYs are designated as K-ZWALLY Slave(s).</p>	<p><b>Requirement:</b> The K-ZWALLY Master is active.</p> <p>The following steps must be performed for each K-ZWALLY Slave:</p> <p><b>Step 1:</b> Connect the Europlug to the K-ZWALLY Slave</p> <p><b>Step 2:</b> Connect the Europlug to the 230V AC supply</p>
		<div> <p><b>Step 3:</b></p> <p><b>K-ZWALLY Master</b></p>  <p>Press the K-ZWALLY Master for ≥ 5 seconds and release → Network is opened for 3 minutes</p> </div> <div> <p><b>Step 4:</b></p> <p><b>K-ZWALLY Slave</b></p>  <p>Short press on the <b>left small PCB button</b> on the K-ZWALLY Slave and release → The status LED switches off briefly and then shines constantly again. The K-ZWALLY Slave automatically logs in to the network.</p> </div> <div> <p><b>Step 5:</b></p> <p><b>K-ZWALLY Slave</b></p>  <p>Turn the K-ZWALLY slave → if the brightness of the luminaires changes, the K-ZWALLY Slave is in the network.</p> <p>After 3 minutes, the network closes automatically.<sup>4</sup></p> </div>
<b>Network reset</b>	<p>The network needs to be reset if the installation is expanded, for example if a NeoLink Box is added.</p> <p>When resetting the network, all NeoLink and ZigBee devices are reset to their factory state and deleted from the K-ZWALLY Master network.</p>	<ol style="list-style-type: none"> <li>1. Switch on all the network members (K-ZWALLY and luminaires)</li> <li>2. Recommended: Set all luminaires to a bold colour (e.g. red). This will help you to see whether the reset has been successful.</li> <li>3. Perform the following steps:</li> </ol> 
<b>New K-ZWALLY Master</b>	<p>The K-ZWALLY which owns the network is faulty and has to be replaced by a new K-ZWALLY.</p>	<p><b>Requirement:</b> All network members must be reset (manual reset) before the network is built up with the new K-ZWALLY Master.</p> <p>Perform the steps described in “Network reset” or contact a KITEO service technician!</p>
		<p><b>After manually resetting all the luminaires and K-ZWALLY Slave(s), a new network can be created with the new K-ZWALLY Master.</b></p>
<b>New or additional luminaires(s)</b>	Replacing or adding luminaires	Register the new luminaires in the K-ZWALLY Master network by following the instructions in Section 3 (note the range recommendations on page 2!).

<sup>4</sup> If the K-ZWALLY Slave registers in the K-ZWALLY Master network before 3 minutes have expired, the network can be closed manually: Press the K-ZWALLY Master for ≥ 5 seconds and release