

TENTATIVE DATASHEET LIGHTING CONTROL MANAGEMENT SYSTEM

Switchbox family KNxxx

Switchbox family



TYPICAL APPLICATION



The AAA-LUX LED floodlight luminaires are suitable to illuminate large areas like sports fields and industrial large terrains according to the relevant Norms. These luminaires are a retrofit replacement for the current Metal Halide flood lighting.

The WSxxxx, ALxxxx and JTxxxx family can be wirelessly controlled with the AAA-LUX Lighting Control Management System (LCMS) via the proprietary LEDxLINK. By using the LCMS in a correct way, user experience will be largely enhanced, and power savings will be optimized.

The LCMS family has a user interface based on Touchscreens or switchboxes. This datasheet is related to the switchbox interface.

The switchboxes are made of industry grade, robust, vandal proof components. They are designed for outdoor usage, but can be used indoors as well.

Typical applications for the switchbox family are on the pole at the site of a sports field, tennis court or large industrial area. However switchboxes can also be used indoors, as long as the wireless LEDxLINK signal can be received by the LED luminaires.

More information can be found on www.AAA-LUX-lighting.com

FEATURES AND BENEFITS

Main features and benefits are:

- Robust industry grade design
- Glass fiber reinforced polyester
- Vandal proof components, like press knobs
- Standalone usable as well as together with AAA-LUX controlbox
- Designed for outdoor use
- Indoor use possible
- Maximum of 6 knobs (Light scene options) possible
- Option to secure 1 light pattern with a key
- Connection options:
 - o LEDxLINK compliant
 - o Ethernet compliant



DESCRIPTION

The user interface for the AAA-LUX Lighting Control Management System consists of switchboxes and Touchscreens. The switchbox can be used in a stand-alone system, as well as in a more sophisticated system together with an AAA-LUX controlbox and/or Touchscreen. With the switchbox a maximum of 6 (by the user defined) light scenes are possible. Optionally one light scene can be secured with a key. For example the gameplay knob can be secured with a key which is with the facility manager. He only can now switch the illumination to gameplay level.

The switchbox is designed for outdoor use. Example of use is on the closest mast on the sports field from the canteen. The switchbox has an internal antenna that needs to have line-of-sight connection with at least one of the AAA-LUX LED fixtures.

However the switchbox can be installed indoors as well, but the antenna needs now to be mounted outdoors, to ensure sufficient wireless connection for the LEDxLINK.

As an alternative the switchbox has also an option to be produced with an Ethernet interface, replacing the LEDxLINK wireless interface. This option is available for indoor use only.

The switchbox has a power connection for an electronic power supply voltage of 12 Vdc.

Following options are available:

- Outdoors: a transformer to connect it to the 400 Vac in a mast
- Indoors: an adapter power supply to connect it to the 230 Vac

IMPORTANT NOTE:

The power on the switchbox needs to be switched on at the same time as the (400 Vac) voltage is connected to the LED luminaires.

TECHNICAL DATA

Dimensions (in mm)



Mechanical – electrical data

Specification	Min	Typ	Max	Unit
Power consumption		1.5		W
Voltage input		12		VDC
Operating temperature	-10		+40	°C
Weight		1		kg

CE marking is applicable

Switchbox colour is RAL9005

Packing dimensions: 87 x 105 x 205 mm

ACCESSORIES

Antenna cable	Antenna extension cable with different lengths mainly for indoor applications: 3, 5 or 12 meters
Trafo	For outdoor use – 400 Vac → 12 Vdc
Adapter	For indoor use – 230 Vac → 12 Vdc
Antenna	Standard antenna
Connection cable	Outdoor standard antenna connection cable
Antenna cable – 3 m	Antenna extension cable of 3 meters
Antenna cable – 5 m	Antenna extension cable of 5 meters
Antenna cable – 12 m	Antenna extension cable of 12 meters
All other LCMS components like Control Box, Switchbox, Interface Box, etc	

ORDERING CODES

Typenumber	Description
KN103	Standard switchbox - LEDxLINK, with 3 knobs, no key
KN104	Standard switchbox - LEDxLINK, with 4 knobs, no key
KN106	Standard switchbox - LEDxLINK, with 6 knobs, no key
KN003	Standard switchbox - Ethernet, with 3 knobs, no key
KN004	Standard switchbox - Ethernet, with 4 knobs, no key
KN006	Standard switchbox - Ethernet, with 6 knobs, no key
KN113	Standard switchbox - LEDxLINK, with 3 knobs, with key
KN114	Standard switchbox - LEDxLINK, with 4 knobs, with key
KN116	Standard switchbox - LEDxLINK, with 6 knobs, with key
KN013	Standard switchbox - Ethernet, with 3 knobs, with key
KN014	Standard switchbox - Ethernet, with 4 knobs, with key
KN016	Standard switchbox - Ethernet, with 6 knobs, with key
Trafo	For outdoor use – 400 Vac → 12 Vdc
Adapter	For indoor use – 230 Vac → 12 Vdc

Maintenance

Maintenance is not needed throughout the lifetime of the product, except cleaning and inspection of the product.

The information might be subject to change without prior warning.

Installation

It is requested to read the installation manual before installation.
 This installation manual is available with AAA-LUX partners.
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Made in the Netherlands

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