



**CONFIGURATION  
INSTRUCTIONS  
SMARTDRIVER-2 KNX**

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# 1. Introduction

## 1.1 Information about the document

This document contains detailed information on the configuration of the products described.


The current version of this document is available on the relevant product page at [www.esylux.com](http://www.esylux.com) as a PDF file. It can be printed out if required.

- Read the document carefully before using the product.
- If you have any questions, please contact the manufacturer.

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### Navigating on screen

Reading the digital document is supported by the following functions:

- **Linked table of contents:** Clicking on the chapter title opens the corresponding chapter.
- **List of bookmarks:** An overview of all chapters can be found in the list of bookmarks  in the PDF document.

## 1.2 Manufacturer/contact

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info@esylux.com  
www.esylux.com

## 1.3 Product identification

This document applies to the following products:

### Product name

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SMARTDRIVER-2 IR 4C+2 x4 ELC KNX

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SMARTDRIVER-2 IR 4C+2 x8 ELC KNX

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SMARTDRIVER-2 TW IR 2C+2 x4 ELC KNX

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**Product name**


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 SMARTDRIVER-2 TW IR 2C+2 x6 ELC KNX
 

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 SMARTDRIVER-2 TW IR 2C+2 x8 ELC KNX
 

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The product name is located on the product nameplate.

The product name contains essential information about the product:

Element	Description
SMARTDRIVER-2	Series
TW	Colour temperature (Tunable White)
IR	Remote controllable (infrared)
2C+2/4C+2	Number of light channels + number of HVAC channels
x4/x6/x8	Number of ELC luminaire outputs
ELC	ESYLUX Light Control
KNX	Control system

## 2. Safety

### 2.1 Intended use

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**Installation location**

ELC control units (ELC = ESYLUX Light Control) in the SMARTDRIVER-2 KNX series are designed for indoor use. Only use the product as a control gear in combination with an ELC presence detector (not included in delivery).

The use of unsuitable components, modifications to the product and unauthorised repairs are not permitted. The product may only be used if it is in perfect technical condition.

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**Liability**

The manufacturer will not accept liability for instances of personal injury or property damage caused by improper use.

## 2.2 Qualification



Installation may only be carried out by electrical installation technicians or trained electricians.  
Configuration and operation may also be carried out by persons without electrical qualifications.

## 3. Object description

Object no.	Object name	Object length	Data type	Function
0	Input: Light channel 1, switching	1 bit	[1.1] DPT_Switch	Input object for manually switching the respective light channel on and off.
1	Input: Light channel 2, switching	1 bit	[1.1] DPT_Switch	Input object for manually switching the respective light channel on and off.
2	Input: Light channel 3, switching	1 bit	[1.1] DPT_Switch	Input object for manually switching the respective light channel on and off.
3	Input: Light channel 4, switching	1 bit	[1.1] DPT_Switch	Input object for manually switching the respective light channel on and off.
4	Input: Light channel 1, dimming	4 bits	[3.7] DPT_Control_Dimming	Input object for manual override of channel 1 via relative dimming command.
5	Input: Light channel 2, dimming	4 bits	[3.7] DPT_Control_Dimming	Input object for manual override of channel 2 via relative dimming command.
6	Input: Light channel 3, dimming	4 bits	[3.7] DPT_Control_Dimming	Input object for manual override of channel 3 via relative dimming command.

## Object description

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Object no.	Object name	Object length	Data type	Function
7	Input: Light channel 4, dimming	4 bits	[3.7] DPT_Control_Dimming	Input object for manual override of channel 4 via relative dimming command.
8	Input: Light channel 1, dimming value	1 byte	[5.1] DPT_Scaling	Input object for determining fixed dimming values. Light channel 1 is manually overridden with this object.
9	Input: Light channel 2, dimming value	1 byte	[5.1] DPT_Scaling	Input object for determining fixed dimming values. Light channel 2 is manually overridden with this object.
10	Input: Light channel 3, dimming value	1 byte	[5.1] DPT_Scaling	Input object for determining fixed dimming values. Light channel 3 is manually overridden with this object.
11	Input: Light channel 4, dimming value	1 byte	[5.1] DPT_Scaling	Input object for determining fixed dimming values. Light channel 4 is manually overridden with this object.
12	Input: Light channel 1, colour temperature change	4 bits	[3.7] DPT_Control_Dimming	Input object for manual override of channel 1 colour temperature CCT value via relative dimming command.
13	Input: Light channel 2, colour temperature change	4 bits	[3.7] DPT_Control_Dimming	Input object for manual override of channel 2 colour temperature CCT value via relative dimming command.

## Object description

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Object no.	Object name	Object length	Data type	Function
14	Input: Light channel 1, colour temperature (CCT)	2 bytes	[9.2] DPT_Value_Tempd	Input object for specifying fixed colour temperatures. Light channel 1 is manually overridden with this object.
15	Input: Light channel 2, colour temperature (CCT)	2 bytes	[9.2] DPT_Value_Tempd	Input object for specifying fixed colour temperatures. Light channel 2 is manually overridden with this object.
16	Input: all light channels, switching	1 bit	[1.1] DPT_Switch	Input object for manually switching all light channels on and off.
17	Input: all light channels, dimming	4 bits	[3.7] DPT_Control_Dimming	Input object for manual override of all light channels via relative dimming command.
18	Input: all light channels, dimming value	1 byte	[5.1] DPT_Scaling	Input object for determining fixed dimming values. All light channels are manually overridden with this object.
19	Input: all light channels, colour temperature change	4 bits	[3.7] DPT_Control_Dimming	Input object for manual override of colour temperature CCT values for all light channels via relative dimming command.
20	Input: all light channels, colour temperature	2 bytes	[9.2] DPT_Value_Tempd	Input object for specifying fixed colour temperatures. All light channels are manually overridden with this object.



## Object description

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Object no.	Object name	Object length	Data type	Function
21	Input: Switch actuator channel 1 (C3), switching	1 bit	[1.1] DPT_Switch	Input object for manually switching the respective switching actuator channel on and off.
22	Input: Switch actuator channel 2 (C4), switching	1 bit	[1.1] DPT_Switch	Input object for manually switching the respective switching actuator channel on and off.
23	Access scene	1 byte	[5.10] DPT_Value_1_Ucount	Input object for accessing a parametrised scene.
24	Save scene	1 byte	[5.10] DPT_Value_1_Ucount	Input object for saving the current status of a scene.
25	Output presence	1 bit	[1.2] DPT_Bool	Output object for outputting the current presence value. 1 = Motion detected 0 = No motion detected.
26	Value brightness	2 bytes	[9.4] DPT_Value_Lux	Output object for outputting the current light value.
27	Motion orientation	1 bit	[1.2] DPT_Bool	Output object for outputting the motion signal from the KNX detector as a command to switch to the regulated orientation light. 1 = Motion detected 0 = No motion detected.
28	Output: Light channel 1, dimming value	1 byte	[5.1] DPT_Scaling	Output object for constant light control of channel 1.

## Object description

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Object no.	Object name	Object length	Data type	Function
29	Output: Light channel 2, dimming value	1 byte	[5.1] DPT_Scaling	Output object for constant light control of channel 2.
30	Output: Light channel 3, dimming value	1 byte	[5.1] DPT_Scaling	Output object for constant light control of channel 3.
31	Output: Light channel 4, dimming value	1 byte	[5.1] DPT_Scaling	Output object for constant light control of channel 4.
32	Output: Light channel 1, colour temperature (CCT)	2 bytes	[9.2] DPT_Value_Tempd	Output object for changing the colour temperature of channel 1.
33	Output: Light channel 2, colour temperature (CCT)	2 bytes	[9.2] DPT_Value_Tempd	Output object for changing the colour temperature of channel 2.
34	Output: Channel 1, light value	2 bytes	[9.4] DPT_Value_Lux	Output object for outputting the current light value of channel 1.
35	Output: Channel 2, light value	2 bytes	[9.4] DPT_Value_Lux	Output object for outputting the current light value of channel 2.
36	Output: Channel 3, light value	2 bytes	[9.4] DPT_Value_Lux	Output object for outputting the current light value of channel 3.

## Object description

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Object no.	Object name	Object length	Data type	Function
37	Output: Channel 4, light value	2 bytes	[9.4] DPT_Value_ Lux	Output object for outputting the current light value of channel 4.
38	Output: Light channel 1 RJ45 (CH1 warm white) not connected	1 bit	[1.2] DPT_Bool	Output object for outputting the connection status of the RJ45 connection cable of channel 1. 1 = Disconnected 0 = Connected.
39	Output: Light channel 2 RJ45 (CH1 cold white) disconnected	1 bit	[1.2] DPT_Bool	Output object for outputting the connection status of the RJ45 connection cable of channel 2. 1 = Disconnected 0 = Connected.
40	Output: Light channel 3 (CH2 warm white) disconnected	1 bit	[1.2] DPT_Bool	Output object for outputting the connection status of the RJ45 connection cable of channel 3. 1 = Disconnected 0 = Connected.
41	Output: Light channel 4 (CH2 cold white) disconnected	1 bit	[1.2] DPT_Bool	Output object for outputting the connection status of the RJ45 connection cable of channel 4. 1 = Disconnected 0 = Connected.
42	Output: Light channel 1 RJ45 (CH1 warm white) short circuit	1 bit	[1.2] DPT_Bool	Output object for outputting the output status of light channel 1. 1 = Short circuit 0 = Normal.

## Object description

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Object no.	Object name	Object length	Data type	Function
43	Output: Light channel 2 RJ45 (CH1 cold white) short circuit	1 bit	[1.2] DPT_Bool	Output object for outputting the current output status of light channel 2. 1 = Short circuit 0 = Normal.
44	Output: Light channel 3 RJ45 (CH2 warm white) short circuit	1 bit	[1.2] DPT_Bool	Output object for outputting the current output status of light channel 3. 1 = Short circuit 0 = Normal.
45	Output: Light channel 4 RJ45 (CH2 cold white) short circuit	1 bit	[1.2] DPT_Bool	Output object for outputting the current output status of light channel 4. 1 = Short circuit 0 = Normal.
46	Output: Light channel 1, status	1 bit	[1.1] DPT_Switch	Output object for outputting the output status of light channel 1. 1 = On 0 = Off.
47	Output: Light channel 2, status	1 bit	[1.1] DPT_Switch	Output object for outputting the output status of light channel 2. 1 = On 0 = Off.
48	Output: Light channel 3, status	1 bit	[1.1] DPT_Switch	Output object for outputting the output status of light channel 3. 1 = On 0 = Off.
49	Output: Light channel 4, status	1 bit	[1.1] DPT_Switch	Output object for outputting the output status of light channel 4. 1 = On 0 = Off.

## Object description

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<b>Object no.</b>	<b>Object name</b>	<b>Object length</b>	<b>Data type</b>	<b>Function</b>
50	Input: Reset	1 bit	[1.1] DPT_Switch	Input object for resetting all channels, switching actuators and ELC flags, and subsequently restarting with factory settings.
51	Input: Time	3 bytes	[10.1] DPT_TimeOfDay	Input object for setting the current time.
52	Input: Date	3 bytes	[11.1] DPT_Date	Input object for setting the current date.