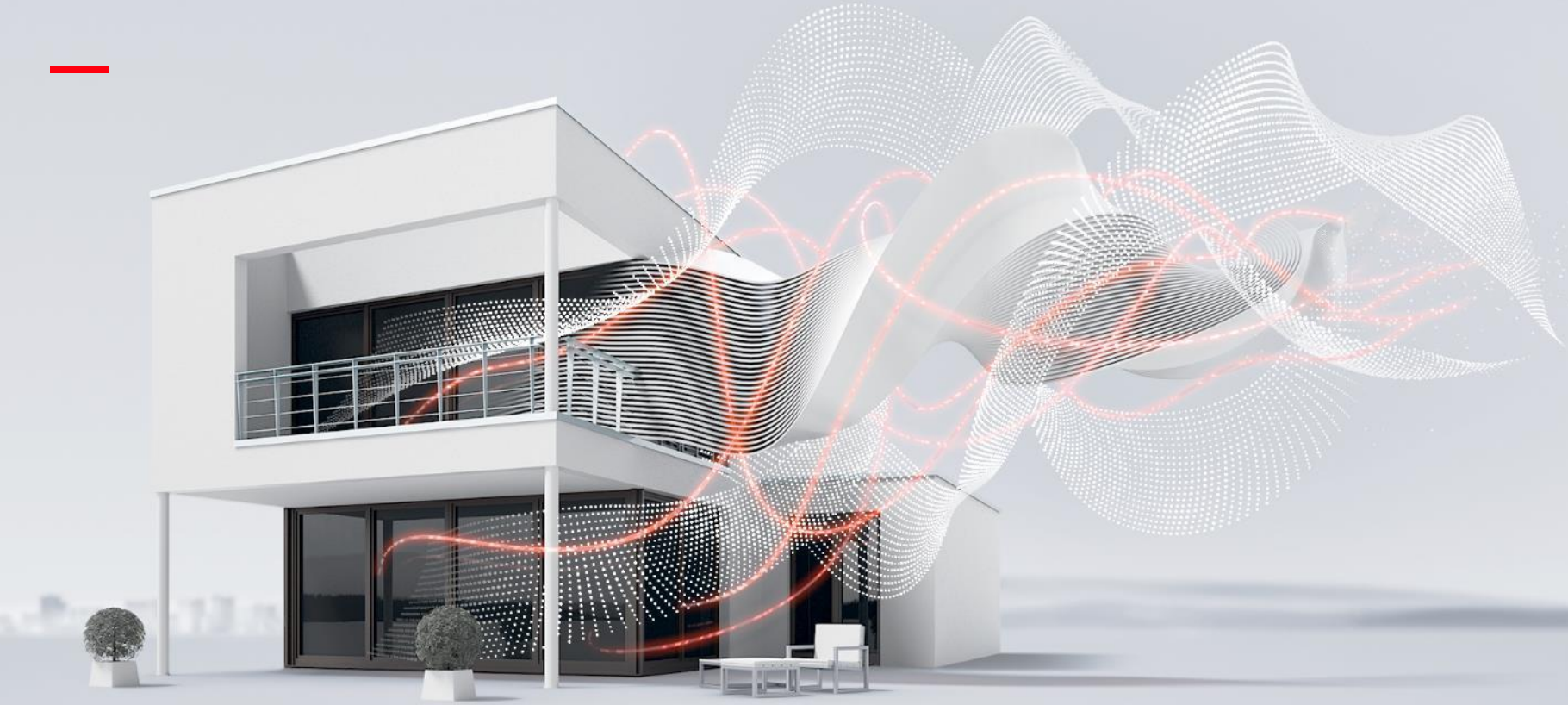


MAY 2020

Webinar “DALI Gateway Premium DG/Sx.64.5.1 – Special Functions”

Webinar – Competence Center Europe – Smart Buildings

Thorsten Reibel, Jürgen Schilder, Stefan Grosse, Martin Wichary & Olaf Stutzenberger

 Document ID.: Rev.:

Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Agenda

Overview and the features of the DALI Gateway Premium DG/S x.64.5.1

Dim2Warm – Colour temperature changes proportionally to brightness with the effect like a light bulb

Human Centric Lighting (HCL) – Colour temperature curve following daylight

Standby switch-off – Ballast voltage shutdown via additional switching actuator to save energy

Scenes – 1 bit recall and 1 byte coded scenes

ABB i-bus® tool – Search menu for a ballast with unknown address, operating hours, …

Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions”

Overview and the features of the DALI Gateway Premium DG/S x.64.5.1

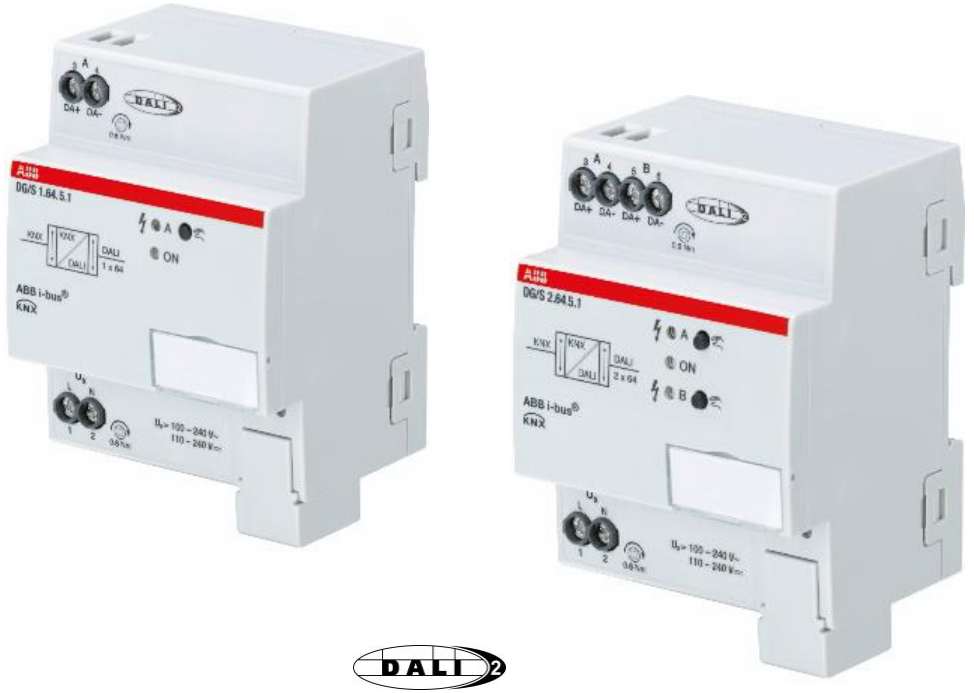
Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Features

Overview

– Two devices
  - DG/S 1.64.5.1 (one channel, 64 ballasts)
  - DG/S 2.64.5.1 (two independent channels, 2 x 64 ballasts)

– All functions of DG/S x.64.1.1 included
  - Flexible combination of DALI groups, single control or KNX groups
  - DALI Outputs 230V secure
  - ABB i-bus® Tool support
  - Emergency Lighting
  - Templates
  - Manual operation
  - …



Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Features

What is new? – Main Features

Tunable White

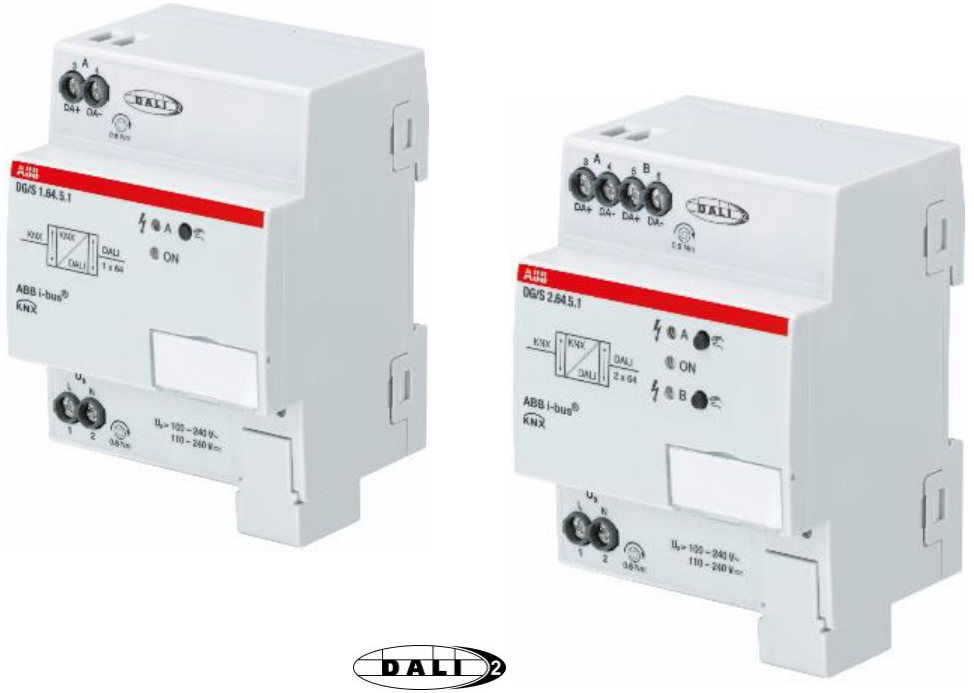
– Change of colour temperature T_C (Cold to warm white) with setting and dimming of colour temperature and brightness for lamps according to device type 8 (tunable white, no colour lighting functions like RGB)

Human Centric Lighting (HCL)

– Colour temperature curve following daylight

Dim2Warm

– Colour temperature changes proportionally to brightness with the effect like a light bulb



Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Tunable White

Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

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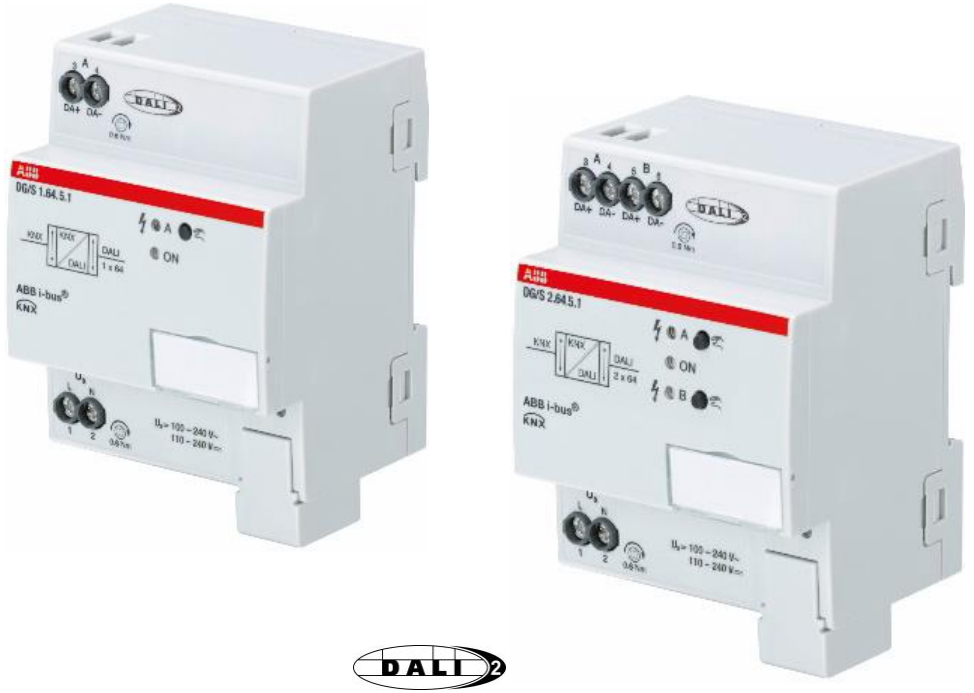
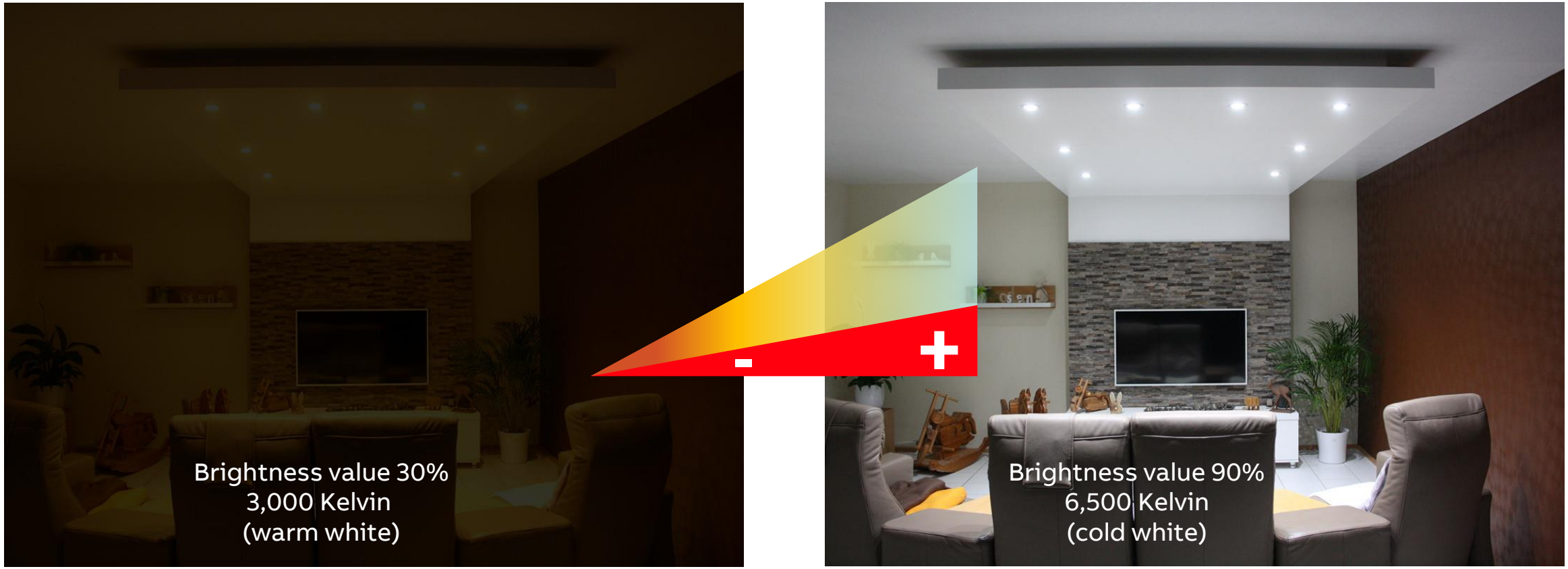


Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Colour function “Dim2Warm”



Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Features

What is new? – Various Features

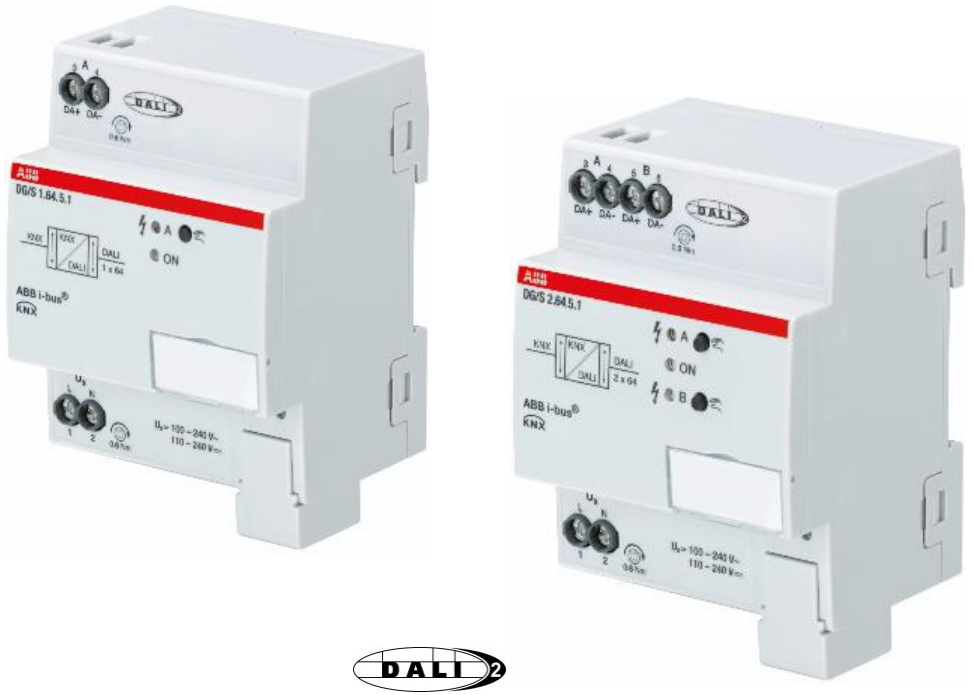
Standby switch-off

– Ballast voltage switch-off via additional switching actuator
  - In case of all connected lights are turned off all ballasts are only in standby mode
  - Ballasts can be switched off to save energy, e.g. during the night

Operating Hours

– Counting of operating hours by means of ABB i-bus® Tool

– Monitoring of circuits/lamps concerning life span for maintenance or replacement



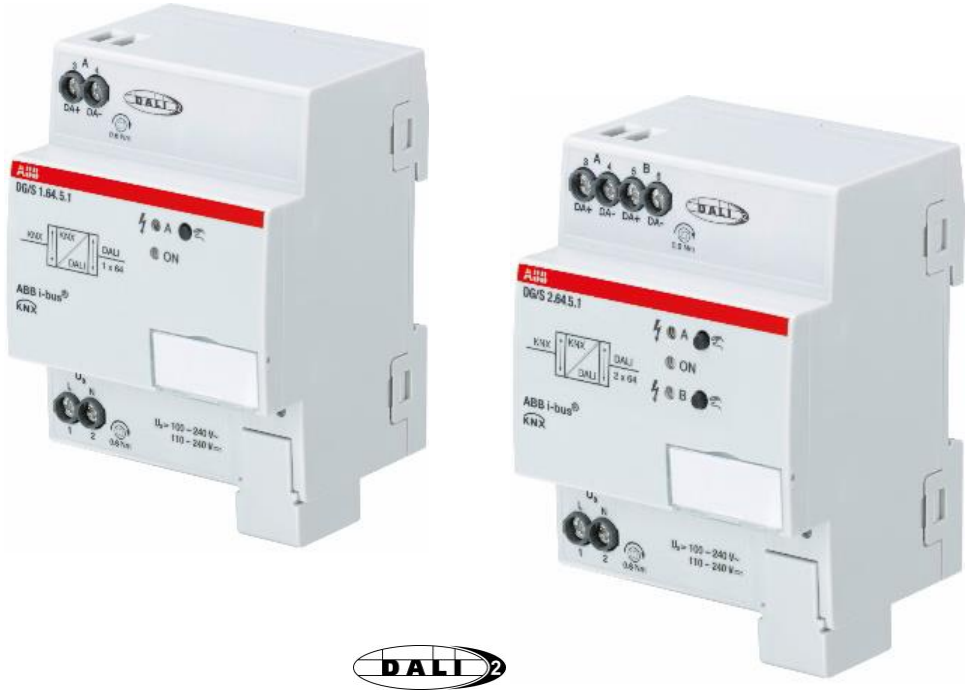
Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Features

What is new? – Various Features

Scenes

- Beside brightness level also the colour temperature can be adjusted in a scene
- For each of the 16 DALI scenes a 1 bit object to recall the scene can be established.
  - Standard is 1 byte with coded content (recall, store and scene number)
  - Advantage 1 bit recall: Easy to use by any sensor or operating element

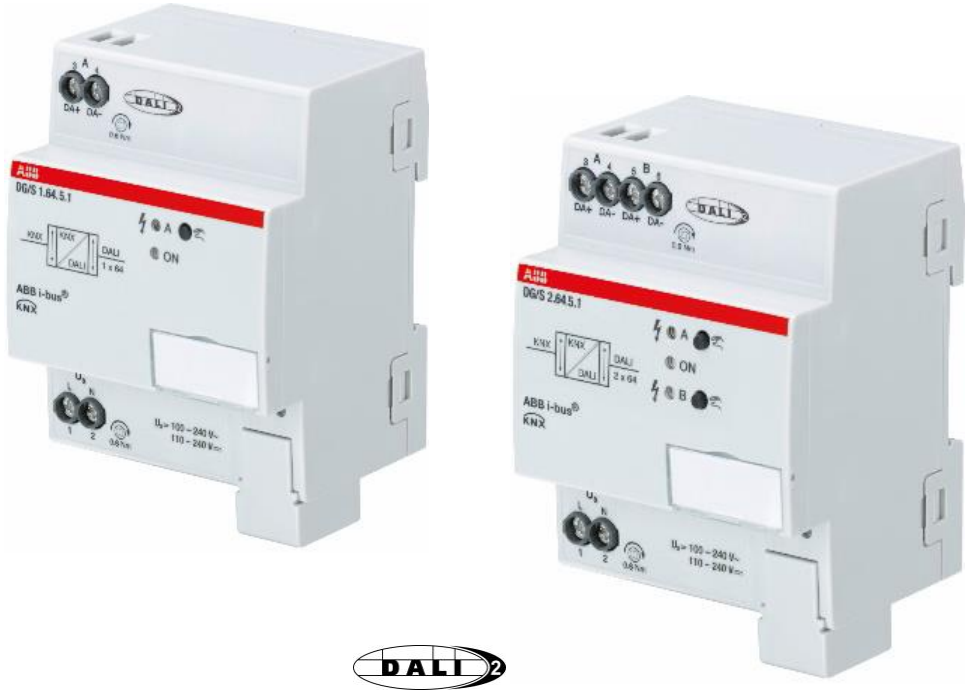


Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Features

What is new? – Various Features

- Fully functional and individual DALI outputs for 64 DALI devices each in accordance with IEC 62 386 Part 201, 202 and 209
  - Normal DALI luminaires (device type 0)
  - DALI single battery emergency light (device type 1)
  - Colour-controlled DALI luminaires (device type 8)
    Note: DG/S x.64.5.1 supports tunable white, right now no other DT8 colour lighting functions like XY coordinate, RGBWAF, …
- Long-frames + extended memory service support (shorter download times, e.g. with USB/S 1.2, IPS/S 3.1.1 and IPR/S 3.x.1)
- ABB i-bus® Tool for diagnostics and commissioning with more functions
- DALI protocol controller can be updated via application download
- Application for ETS5 only
- Set colour temperature (Object 1 byte in % or 2 byte colour temp.)
- Relative dimming (4 bit) of colour temperature
- Additional template page for colour temperature



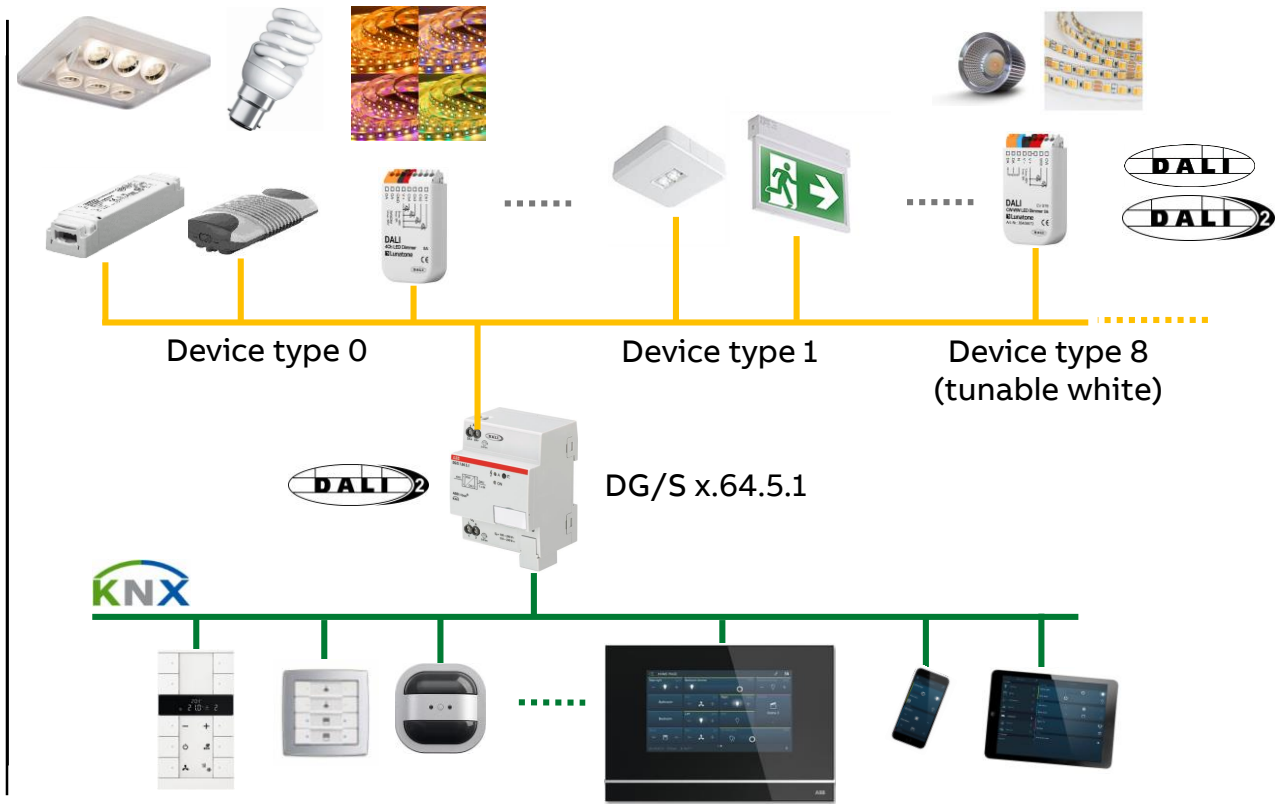
Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

System overview

The DALI Gateways DG/S x.64.5.1 are used to control DALI equipment (only slaves) to EN 62386 with

- Device type 0: DALI interfaces (Part 201)
  - Ballasts, transformers, LED drivers, …
- Device type 1: DALI self-contained emergency converter with individual batteries (Part 202), e.g.
  - ABB Kaufel route escape signs “Ovano”
  - ABB Kaufel LED downlights “Serenga”
- Device type 8: DALI Colour-controlled luminaires (Part 209)
  - LED drivers for tunable white (Colour temperature T_C)

Note: The DALI Gateway is a DALI single master with integrated DALI power supply and up to 64 DALI devices (slaves) can be connected per output. Other DALI masters, DALI power supplies or functional devices must not be connected to the DALI output.



Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

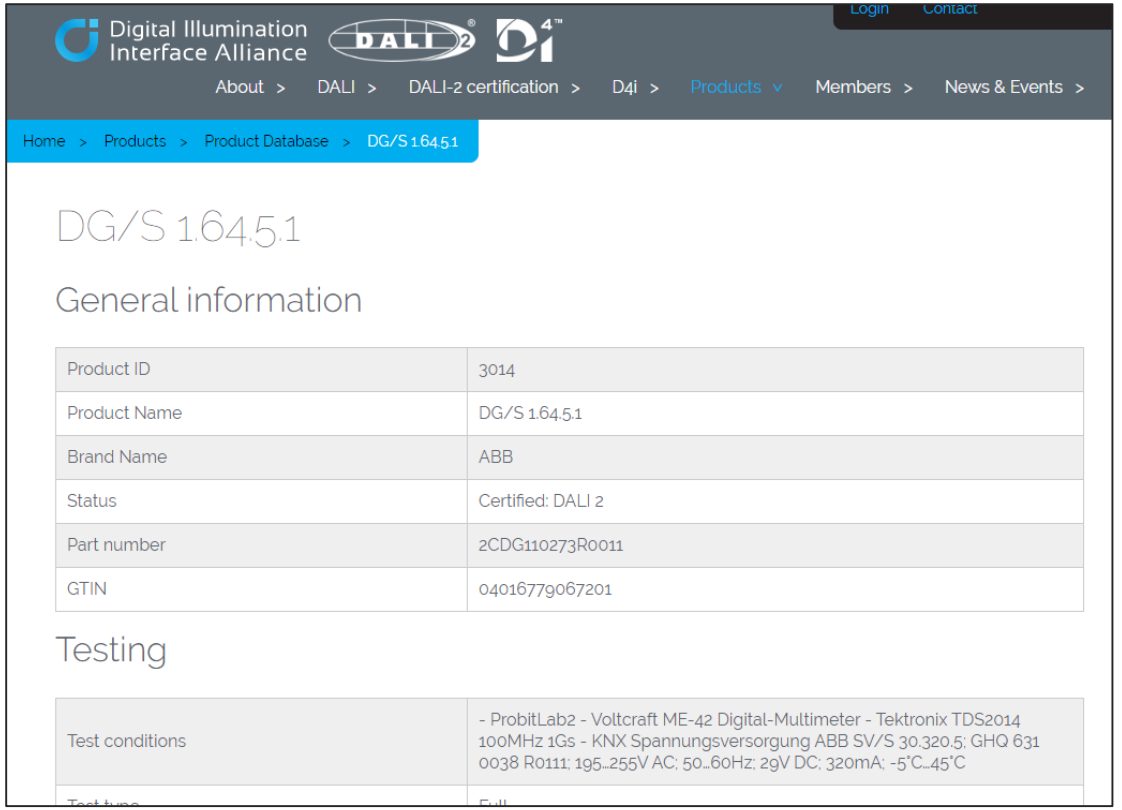
Certified DALI-2 Products

ABB DALI Gateways DG/S x.64.x.1 have successfully completed the DALI-2 certification process and are certified

https://www.digitalilluminationinterface.org/ Digital Illumination Interface Alliance

→ Products → Product Database

Brand Name	Product Name	DALI Parts	Initial registration	DALI 2 Certified
ABB	DG/S 1.64.5.1 DALI Gateway, Premium 1-fold	101, 103	Feb 20, 2020	Yes
ABB	DG/S 2.64.5.1 DALI Gateway, Premium 2-fold	101, 103	Feb 20, 2020	Yes
ABB	DG/S 1.64.1.1 DALI Gateway, Basic 1-fold	101, 103	Sep 4, 2019	Yes
ABB	DG/S 2.64.1.1 DALI Gateway, Basic 2-fold	101, 103	Sep 4, 2019	Yes



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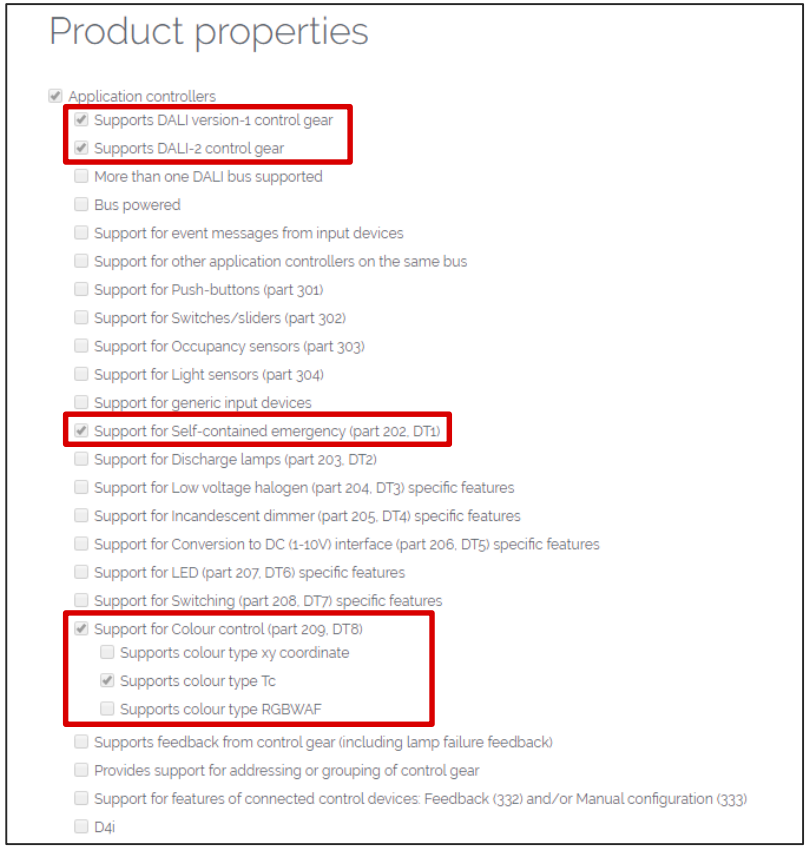


Product properties of DG/S x.64.5.1

Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions”

Colour Function “Dim2Warm”

Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Colour function “Dim2Warm”

What is “Dim2Warm”?

→ A change in colour temperature during dimming

Applications

- Quite a few people associate the change in colour temperature when dimming in the direction of warmer colours with cosiness and comfort
  - At home in the bedroom or in the living room like in the glow of candles or by the cozy fireplace
- To give the feeling of the warm and welcoming atmosphere
  - Hotel bar, restaurant, … in the evening
  - In the morning at breakfast
- …

Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Colour function “Dim2Warm”

What is “Dim2Warm”?

The DALI Gateway has an additional function called “Dim2Warm”, which changes the colour temperature based on the brightness

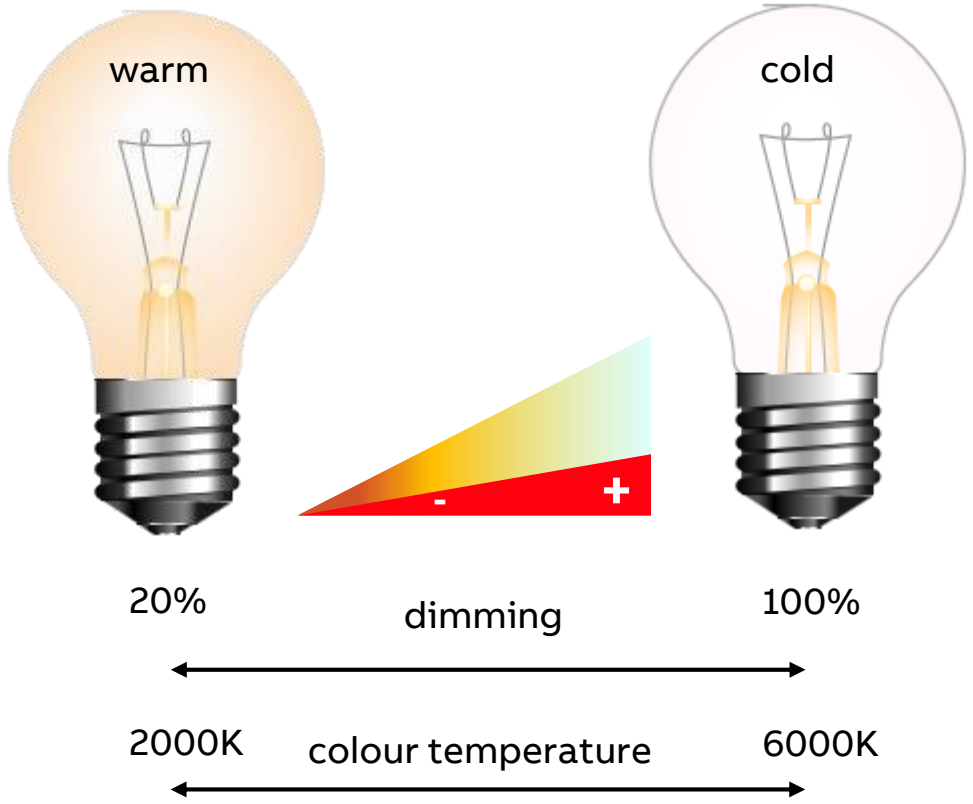
The colour temperature changes proportionally to brightness

– Dimming up: Increasing of colour temperature
  → cold white

– Dimming down: Decreasing of colour temperature
  → warm white

Dim2Warm can be activated on a group or a ballast

This dependency is similar to the dimming behavior of a light bulb (light bulb effect)



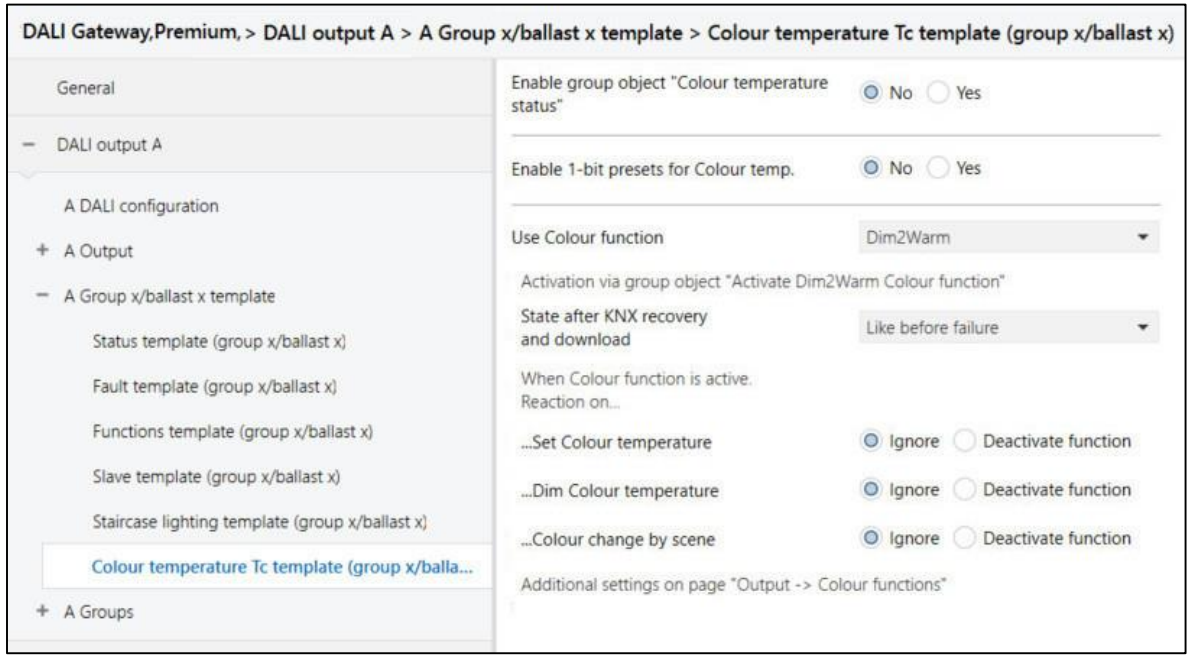
Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Colour function “Dim2Warm”

Commissioning of the Colour function Dim2Warm

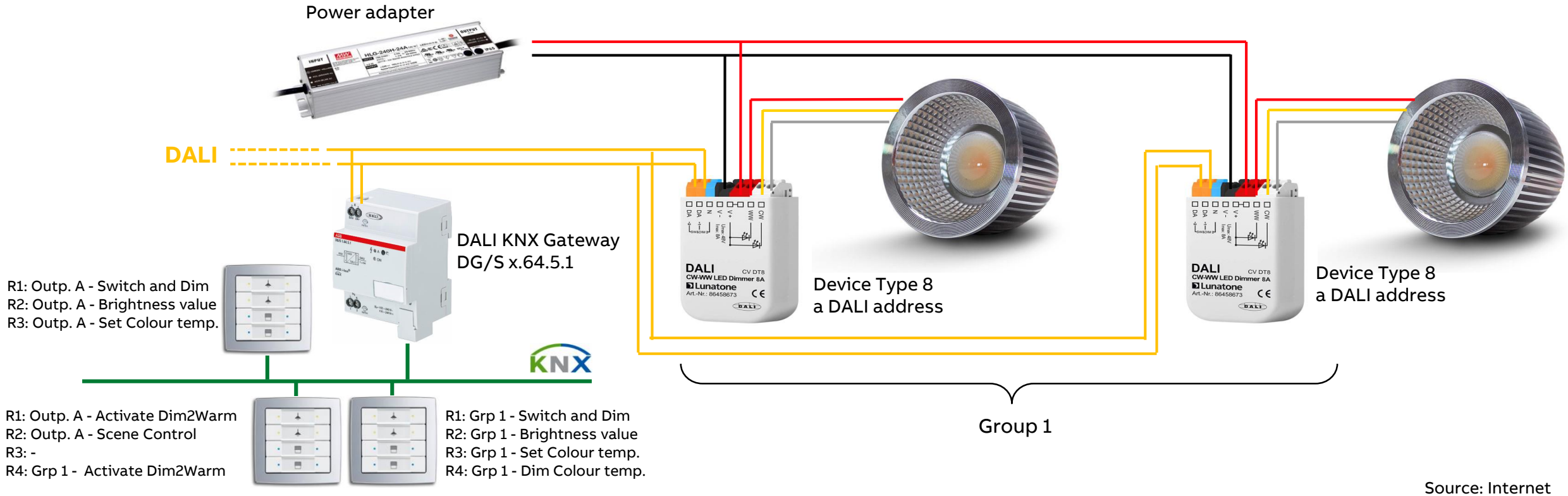
- Set ETS parameter: DALI Output A → Group X or ballast X → Colour functions … (template or individual)
  - Enable colour function “The Dim2Warm” for the group/ballast
  - “State after KNX recovery and download”
  - Reaction on “Set colour temperature, “Dim colour temperature” and “Colour change by scene” when Colour function is active
- Set ETS parameter: DALI Output A → Output → Colour functions
  - Enable the group object “*Output – Activate Dim2Warm colour function”* (if necessary)
  - Limitation of the proportional and Colour temperature range (if necessary)

→ **Details in Online Learning Session “Dim2Warm”**



Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Colour function “Dim2Warm” – Example: Hardware for Tunable White with DALI and KNX



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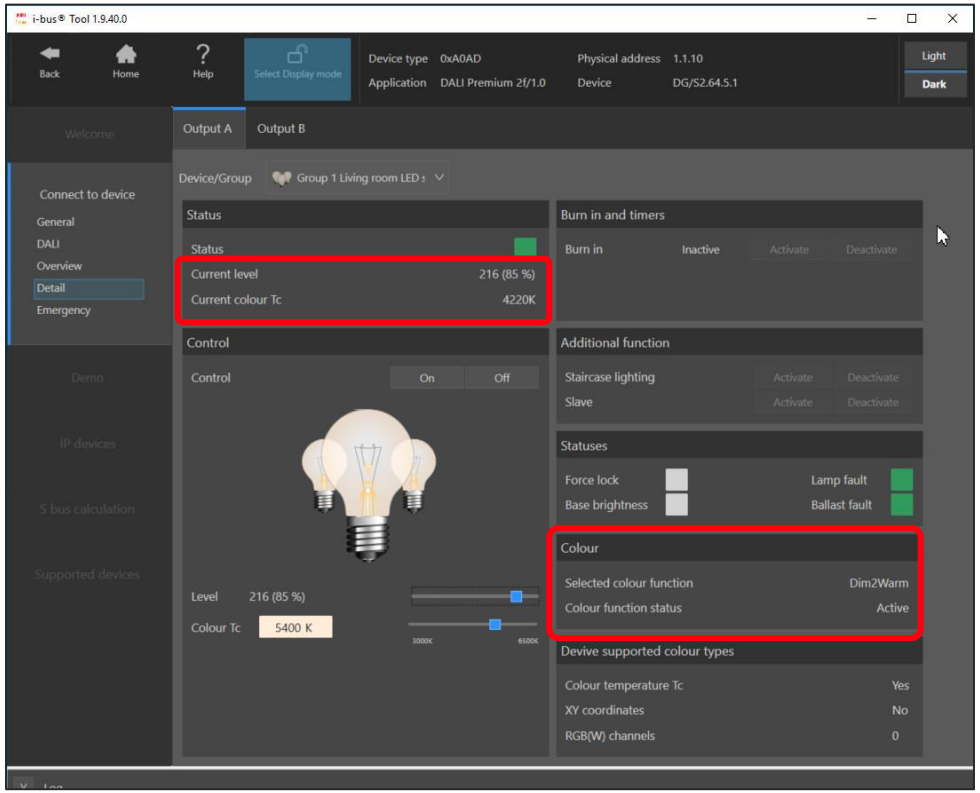
Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Colour function “Dim2Warm”

ABB i-bus® Tool

The selected and the state of the Colour function “Dim2Warm” is displayed

The prerequisite is that the additional function is parameterized in the ETS



Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions”

Colour Function “Human Centric Lighting (HCL)”

Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Colour function “Human Centric Lighting HCL”

What is Human Centric Lighting ?

The light of the sun is crucial for our health and well-being

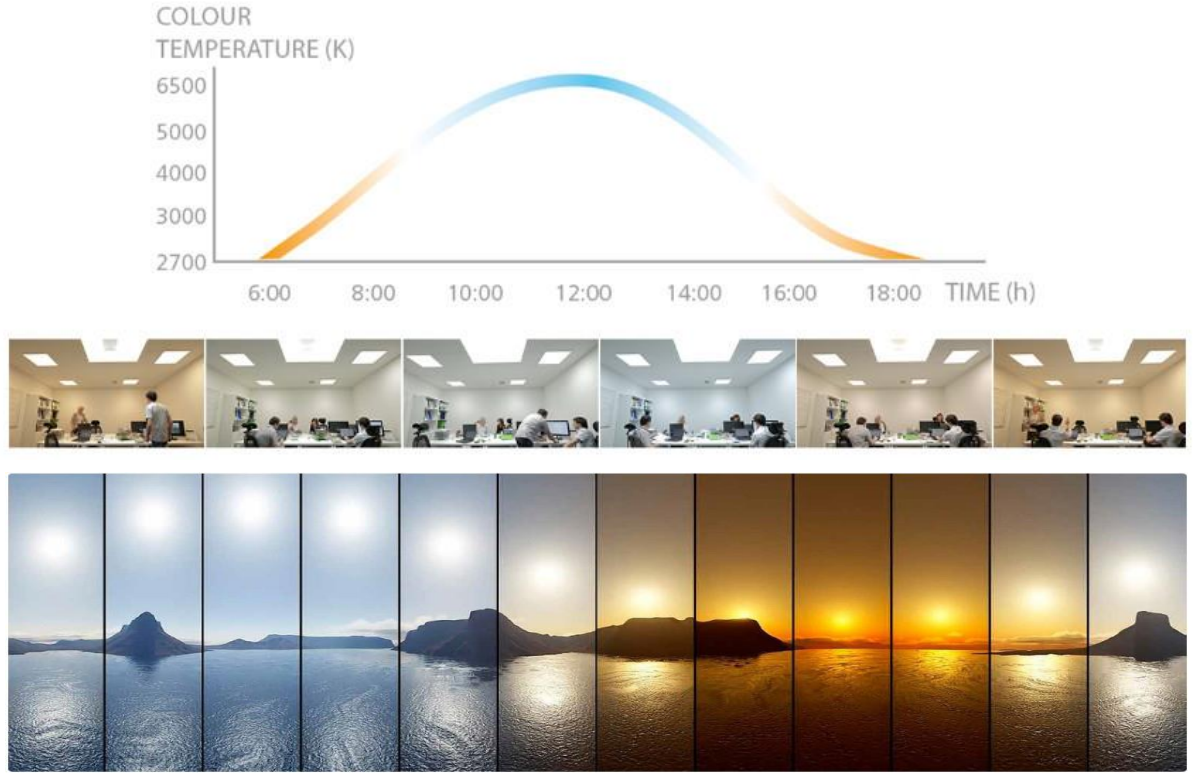
Every artificial light source should therefore match the properties of sunlight as closely as possible

Light affects our mood and level of activity

Human Centric Lighting can adapt people's daily rhythms to one another and increase their motivation, well-being and productivity

Because our physiological response to light depends on the properties of light such as colour spectrum, intensity and timing, the properties of artificial light in our environment are of great importance when we spend a long time in closed rooms

Solutions with Human Centric Lighting can promote the circadian rhythm, improve the ability to concentrate, prevent sleep disorders and increase our general well-being



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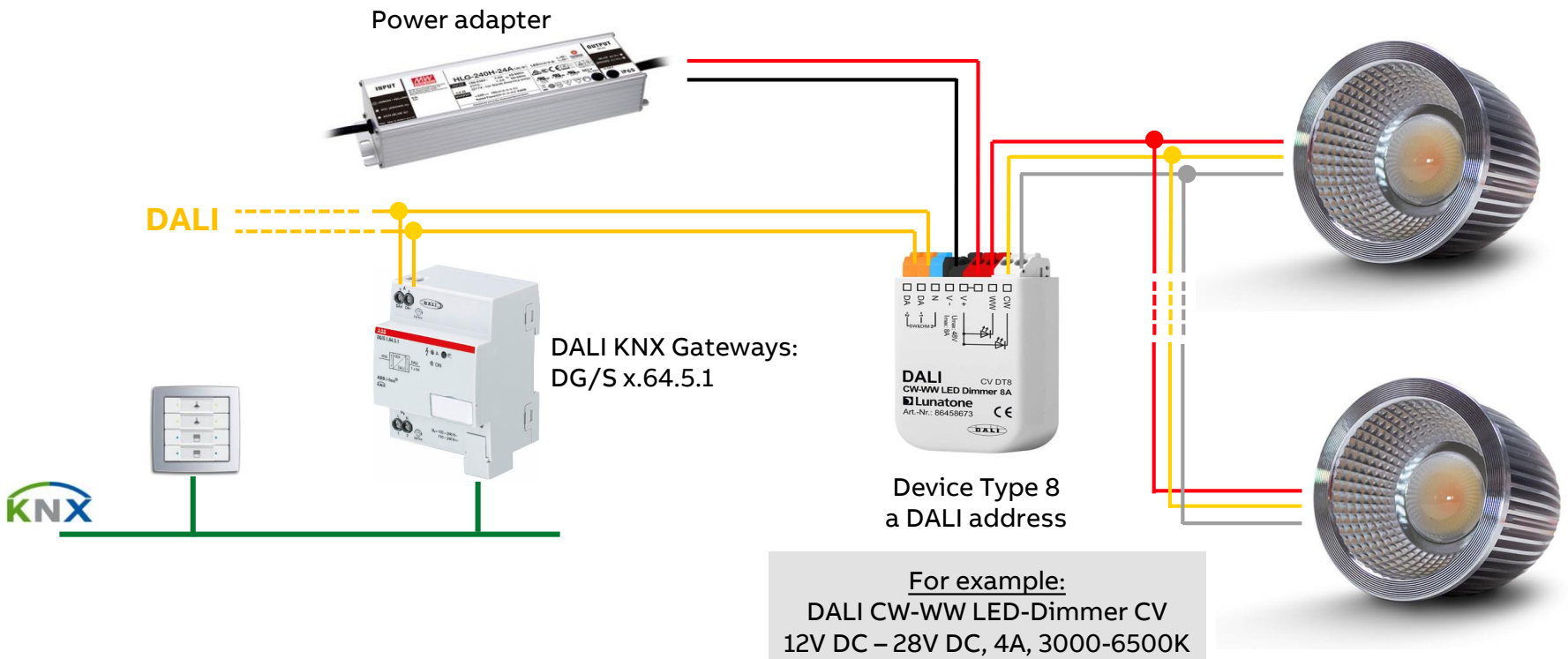
Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Colour function “Human Centric Lighting HCL” – Example: Hardware for Tunable White with DALI and KNX



For example:
Spot Deep Tunable white CV
8 W, 750 lm, 2200-6500 K
Manufacturer: ConstaLED
Manufacturer number: 31362

For example:
DALI CW-WW LED-Dimmer CV
12V DC – 28V DC, 4A, 3000-6500K
Manufacturer: Lunatone
Manufacturer number: 89453836

Source: Internet

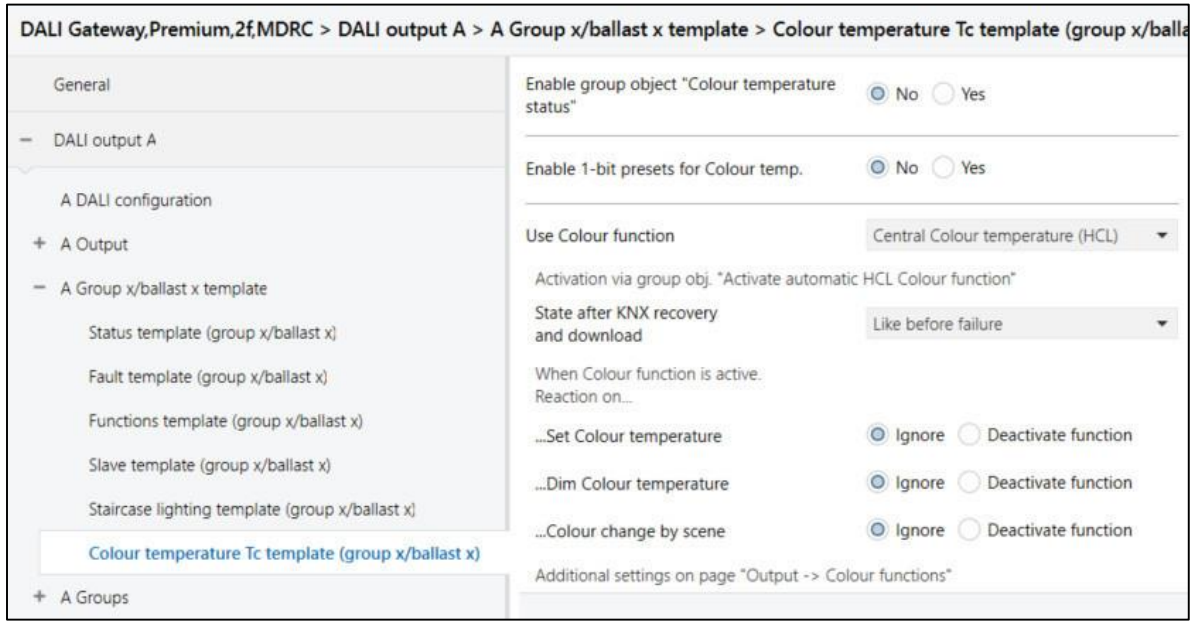
Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Colour function “Human Centric Lighting HCL”

Commissioning of the Colour function HCL

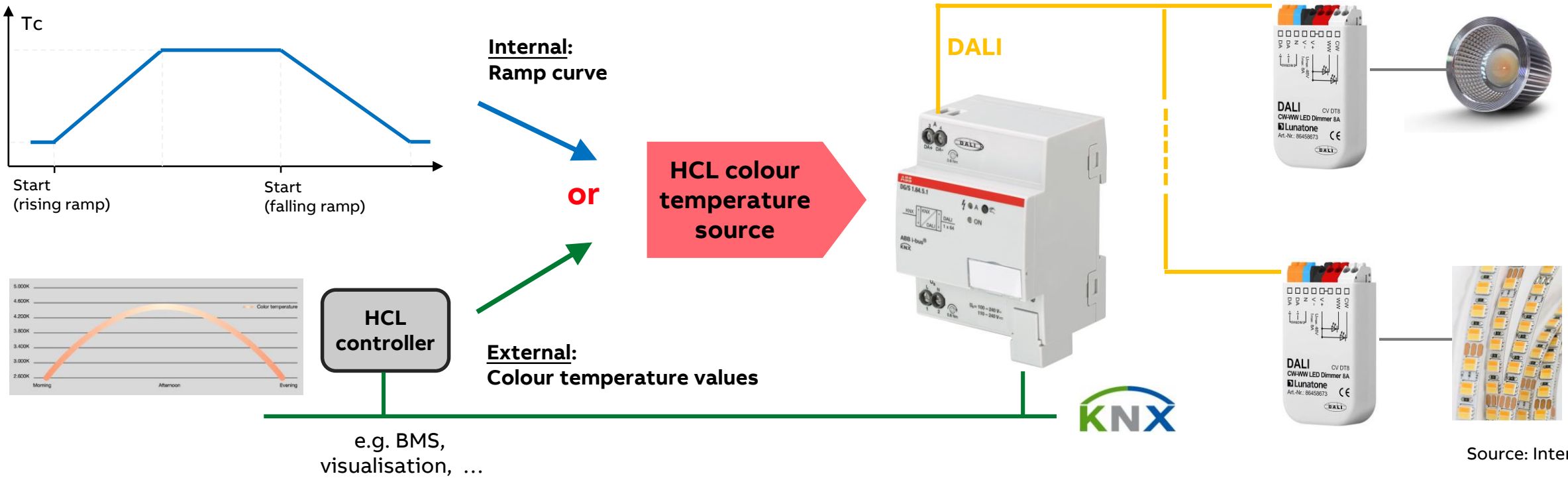
- Set ETS parameter: DALI Output A → Group X or ballast X → Colour functions … (template or individual)
  - Enable the colour function “Central Colour temperature (HCL)” for the group/ballast
  - “State after KNX recovery and download”
  - Reaction on “Set colour temperature, “Dim colour temperature” and “Colour change by scene” when Colour function is active
- Set ETS parameter: DALI Output A → Output → Colour functions
  - HCL colour temperature source (16-bit group object *“Colour temperature*” or 1-bit group object *“Ramp curve*”)
  - Enable the group object “*Output – Activate automatic HCL colour function colour function*” (if necessary)

→ **Details in Online Learning Session “Human Centric Lighting”**



Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Colour function “Human Centric Lighting HCL”



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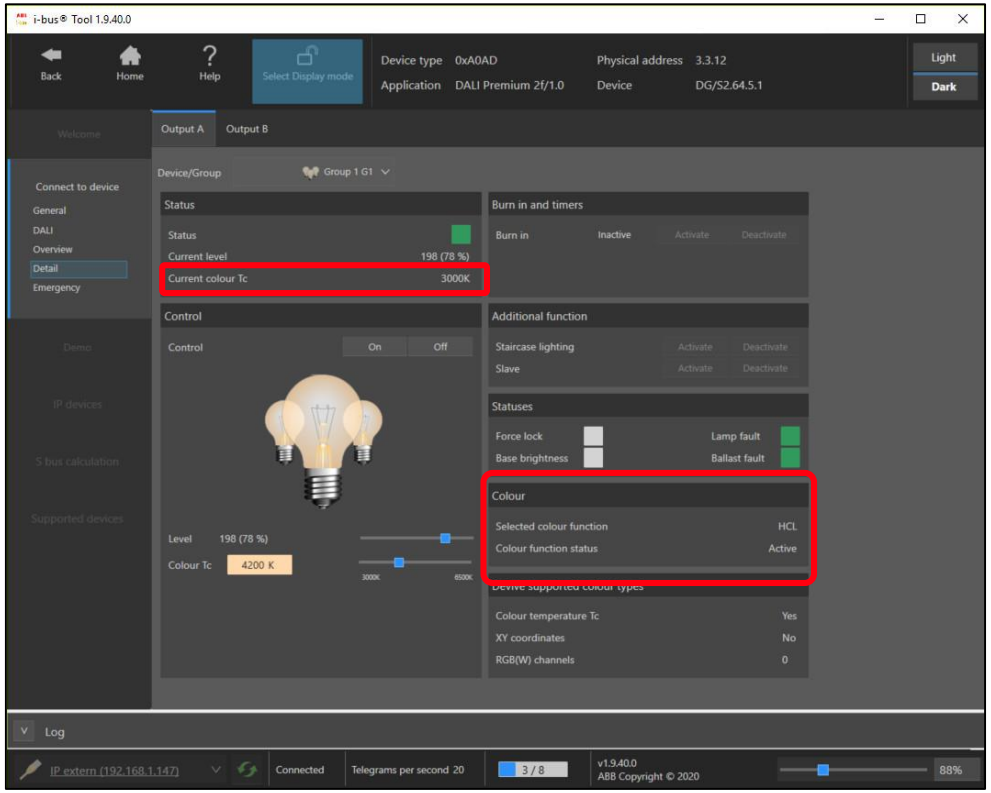
Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Colour function “Human Centric Lighting HCL”

ABB i-bus® Tool

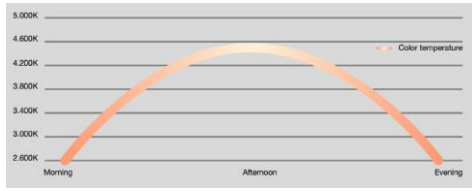
The selected and the state of the Colour function “Human Centric Lighting HCL” is displayed

The prerequisite is that the additional function is parameterized in the ETS



Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Colour function “Human Centric Lighting HCL” – Colour temperature source: “16-bit group object (external)”

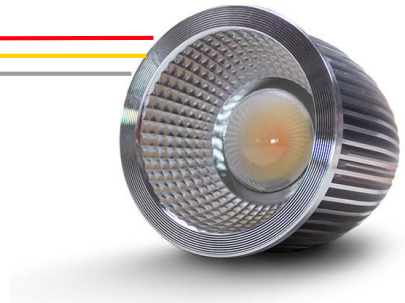


Power adapter

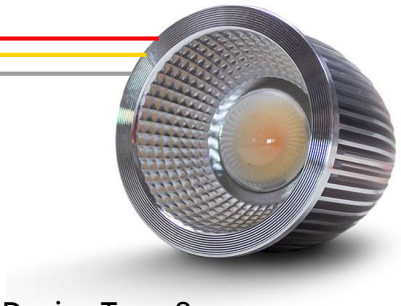
DALI

ETS group monitor
→ Send colour temperature values

DALI KNX Gateway
DG/S x.64.5.1



Device Type 8
a DALI address



Device Type 8
a DALI address

Group 1

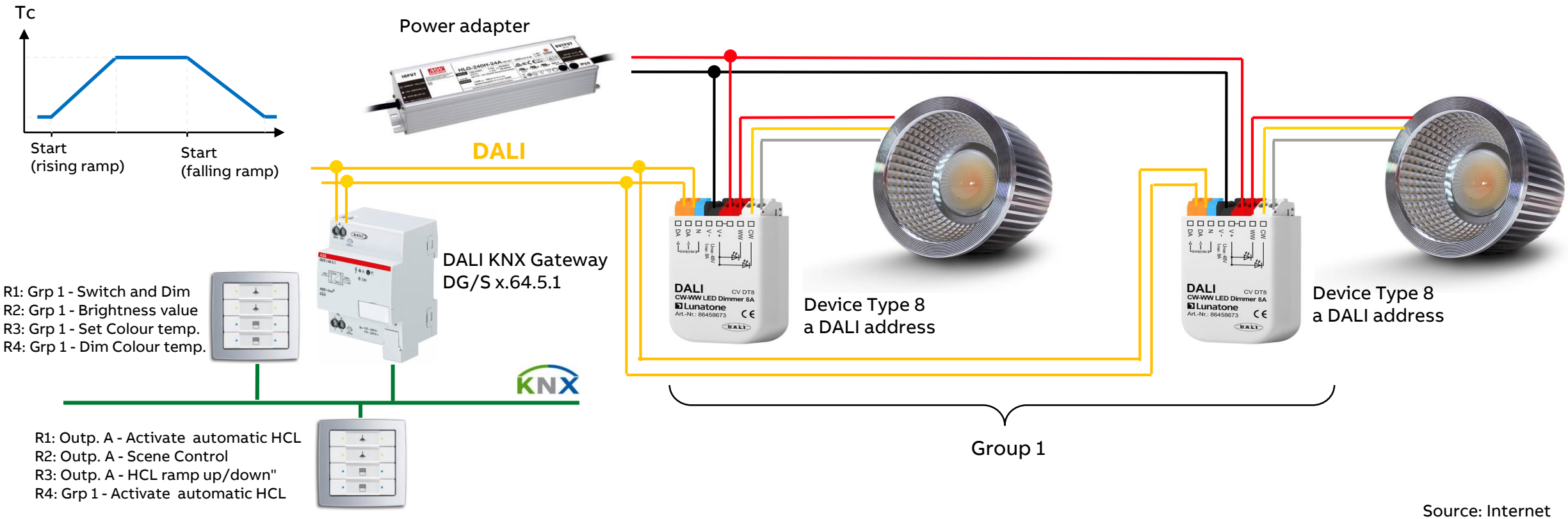
KNX

R1: Outp. A - Activate automatic HCL
R2: Outp. A - Scene Control
R3: -
R4: Grp 1 - Activate automatic HCL

R1: Grp 1 - Switch and Dim
R2: Grp 1 - Brightness value
R3: Grp 1 - Set Colour temp.
R4: Grp 1 - Dim Colour temp.

Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Colour function “Human Centric Lighting HCL” – Colour temp. source: “1-bit group object Ramp curve (int.)”



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Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions”

Function “Standby switch-off”

Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Function “Standby switch-off”

What is the “Standby switch-off” function?

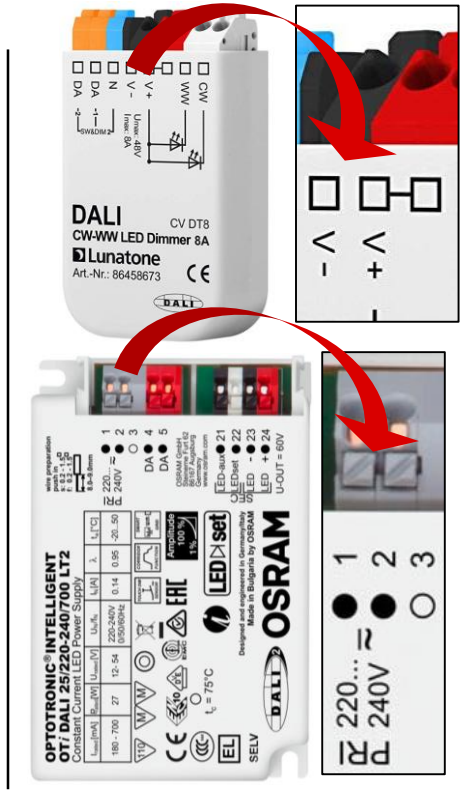
All ballasts are permanently connected to the supply voltage

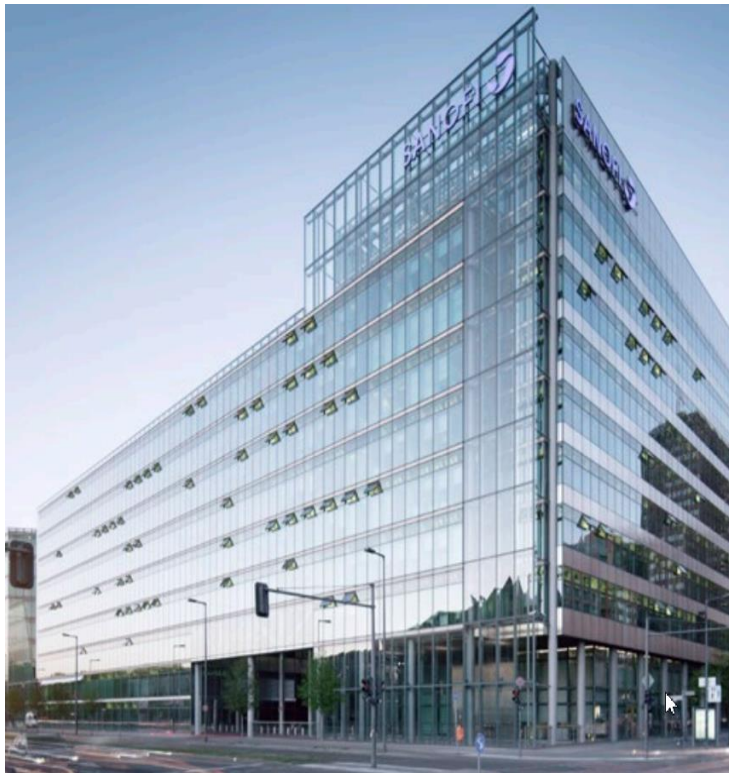
A modern ballast has a power loss of approx. 0.12 to 0.2 Watts in stand-by mode (switched off)

With a large number of ballasts in a building, this leads to a not inconsiderable energy requirement

The “Standby switch-off” function saves energy by switching off the supply voltage of ballasts when they are all in standby (switched off)

→This serves to save energy





Source: Internet

Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Function “Standby switch-off”

What is the “Standby switch-off” function?

If only one ballast remains on at a DALI output, no standby switch-off can be carried out

Standby switch-off is available for each DALI output, not for every ballast or group

The supply voltage can, but does not have to, be switched off for all ballasts

The supply voltage of the ballasts is switched on or off in combination with a KNX Switch Actuator SA/S and with a higher load via an installation contactor (e.g. ESB40)

The message "Ballast fault" is suppressed when the ballasts are switched off using the standby switch-off function

Installation contactor (e.g. ESB40)

Switch Actuator SA/S

Source: Lunatone Industrielle Elektronik GmbH

Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Function “Standby switch-off”

What is the “Standby switch-off” function?

DALI emergency converter are not be integrated in Standby switch-off function

Note:

– Ballasts must support individual DALI power-on level (last value before failure), to be adjusted in the ETS Application under “Fault”

Installation contactor (e.g. ESB40)

Switch Actuator SA/S

Source: Lunatone Industrielle Elektronik GmbH

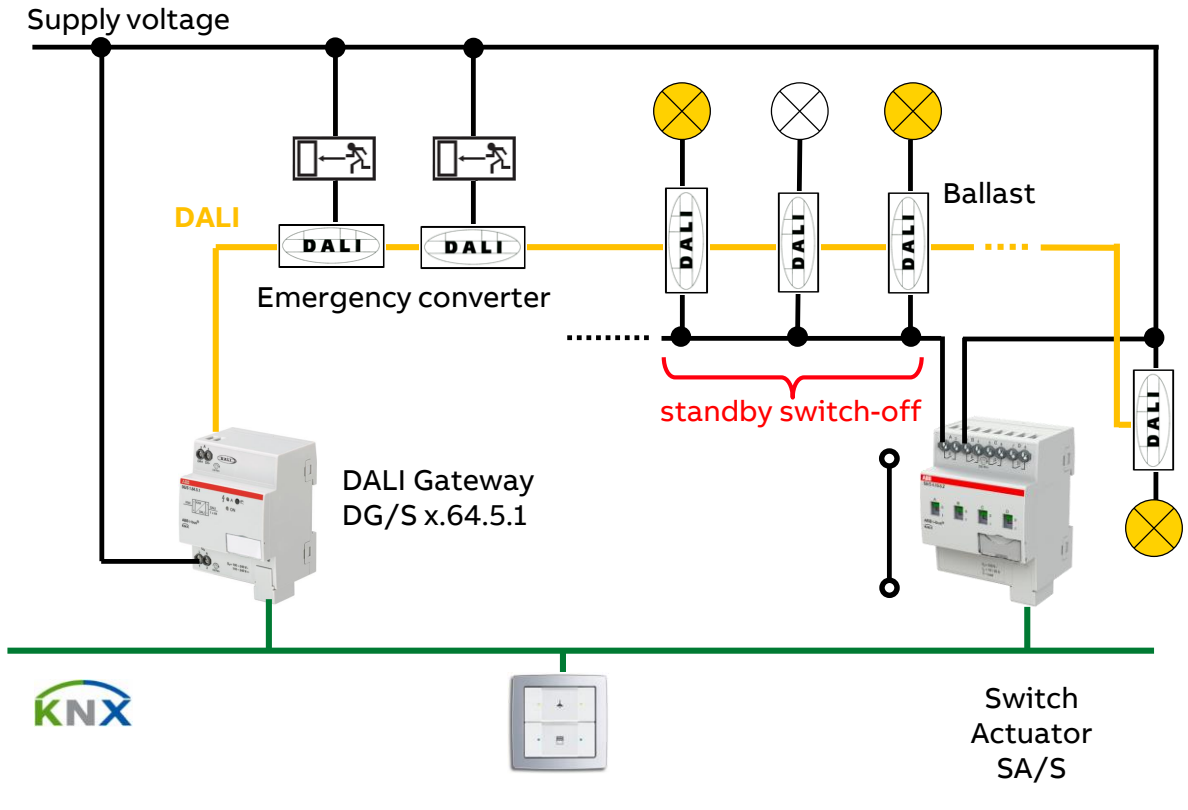
Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Function “Standby switch-off”

How does a “Standby switch-off” function work?

Some lights are turned on and all ballasts are supplied with supply voltage

→ no standby switch-off is possible



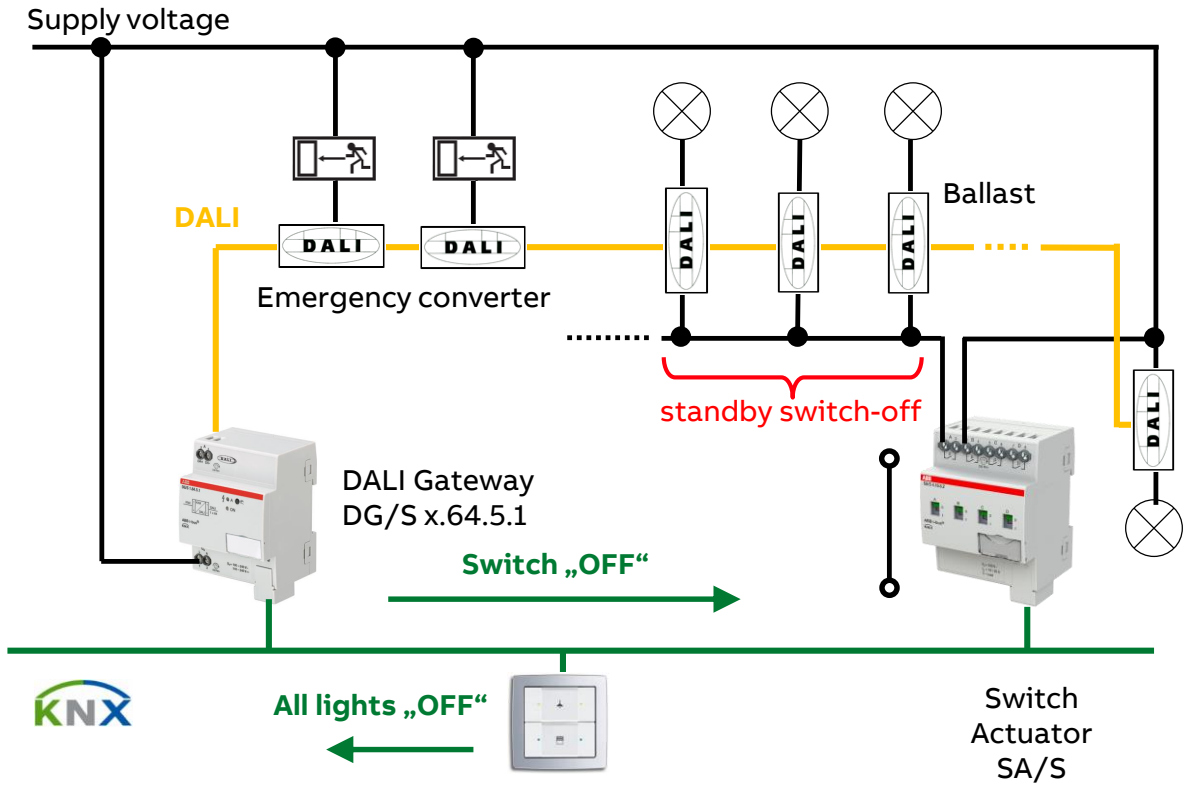
Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Function “Standby switch-off”

How does a “Standby switch-off” function work?

All lights are turned off and all ballasts are in standby at a DALI output

- After an adjustable delay time (1…65,535sec.) the standby switch-off function is activated
- A switch “OFF” telegram is sent on KNX
- All Switch Actuator SA/S channels linked with this group address switches off the ballasts supply voltage
  → All connected ballasts are deenergized
- The DG/S message "Ballast fault" is suppressed

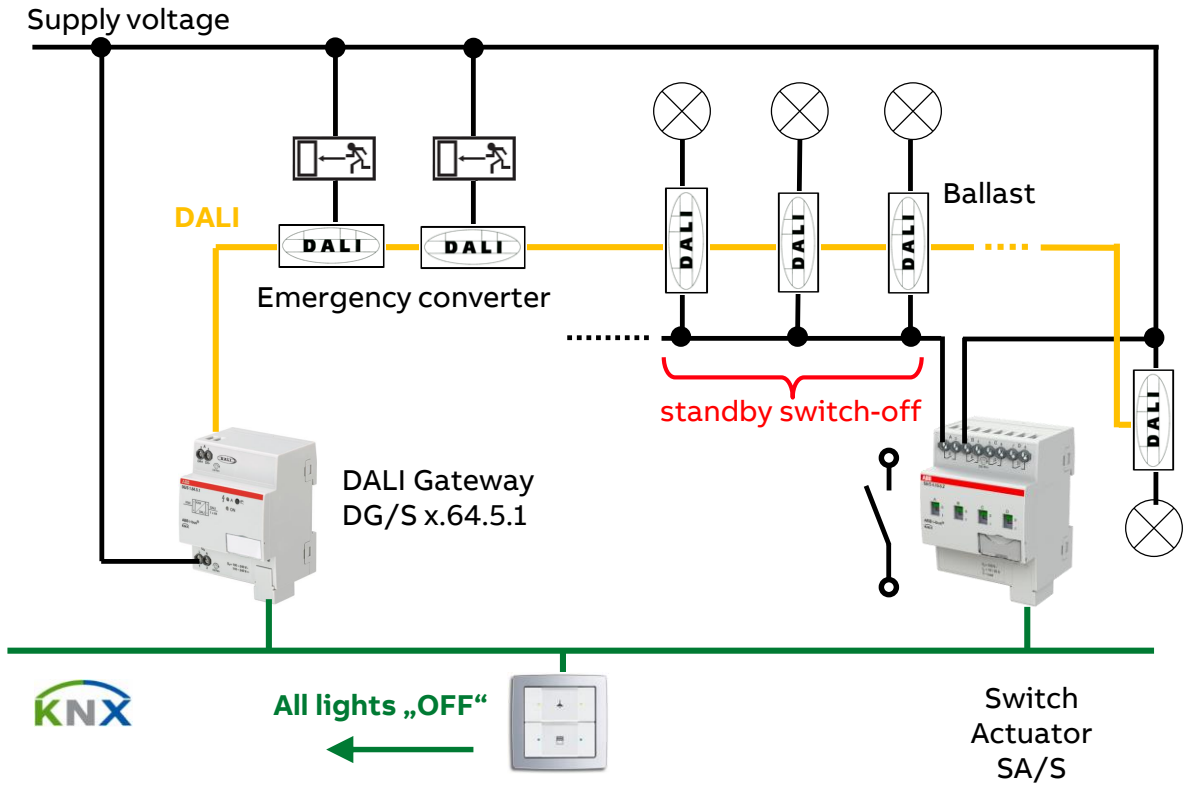


Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

Function “Standby switch-off”

How does a “Standby switch-off” function work?

All lights are turned off and all ballasts are in standby at a DALI output



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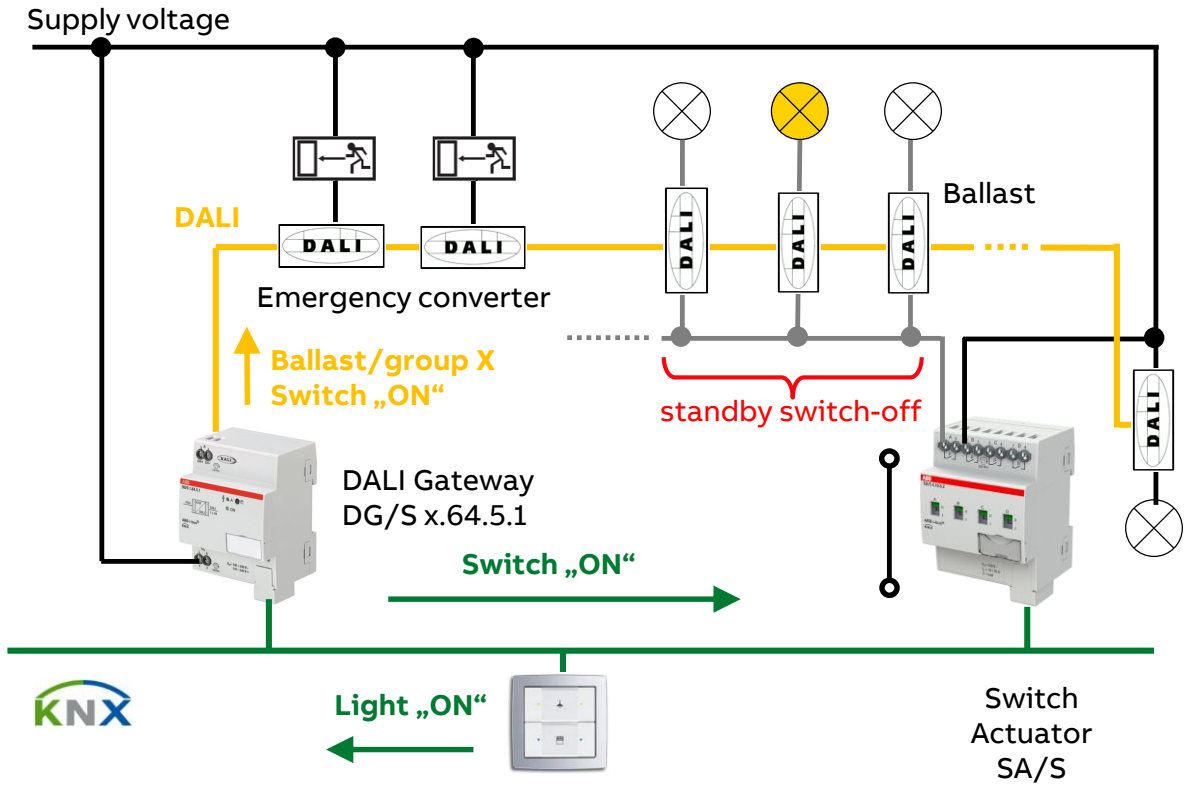
Function “Standby switch-off”

How does a “Standby switch-off” function work?

When the function is active, a KNX sensor (e.g. control element or presence detector) sends a group address to the DALI Gateway to switch on a DALI ballast/group

- The standby switch-off function is deactivated
- A switch “ON” telegram is sent on KNX
- All Switch Actuator SA/S channels linked with this group address switches on the ballasts supply voltage
  → All connected ballasts are energized
- After adjustable delay time (1…10sec., needed for restart of ballasts) all ballasts are ready to work
- The DALI Gateway sends an “ON” command to the DALI ballast/group and the light switches on
- Further actions to turn on lights are without delay



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Function “Standby switch-off”

Commissioning of a “Standby switch-off” function

Set ETS parameter: DALI Output A → Output → Functions

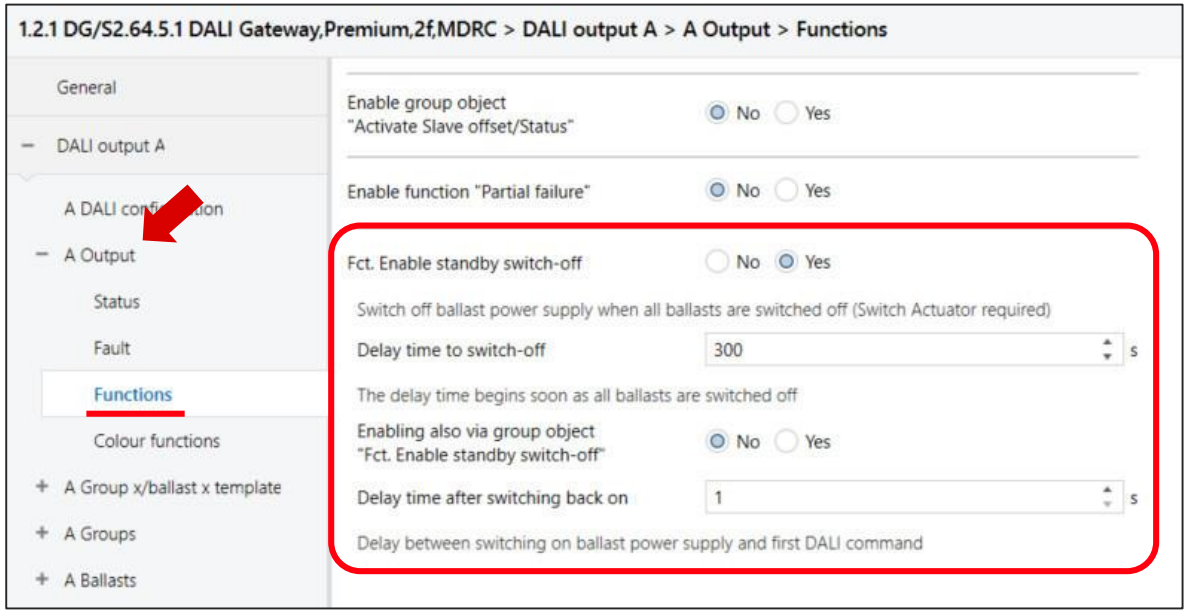
- Enable DALI standby switch-off
- Set time of delay till switch-off (e.g. 5 min to avoid standby switch-off in case of short term standby situation)
- Optional: Enable group object “*Enable DALI standby switch-off*”
- Set time (1 …10s) of delay after restart (needed for restart of ballasts, ballast restart time less than 1 sec. according to DALI standard)

Set ETS parameter: DALI Output A → Group X or ballast X → Fault template … (template or individual)

- Select the "Last value before failure" parameter for all ballasts involved in Standby switch-off function

Connect the “*Standby switch-off*” group object to a Switch Actuator SA/S channel(s)

→ Details in Online Learning Session “Standby switch-off”



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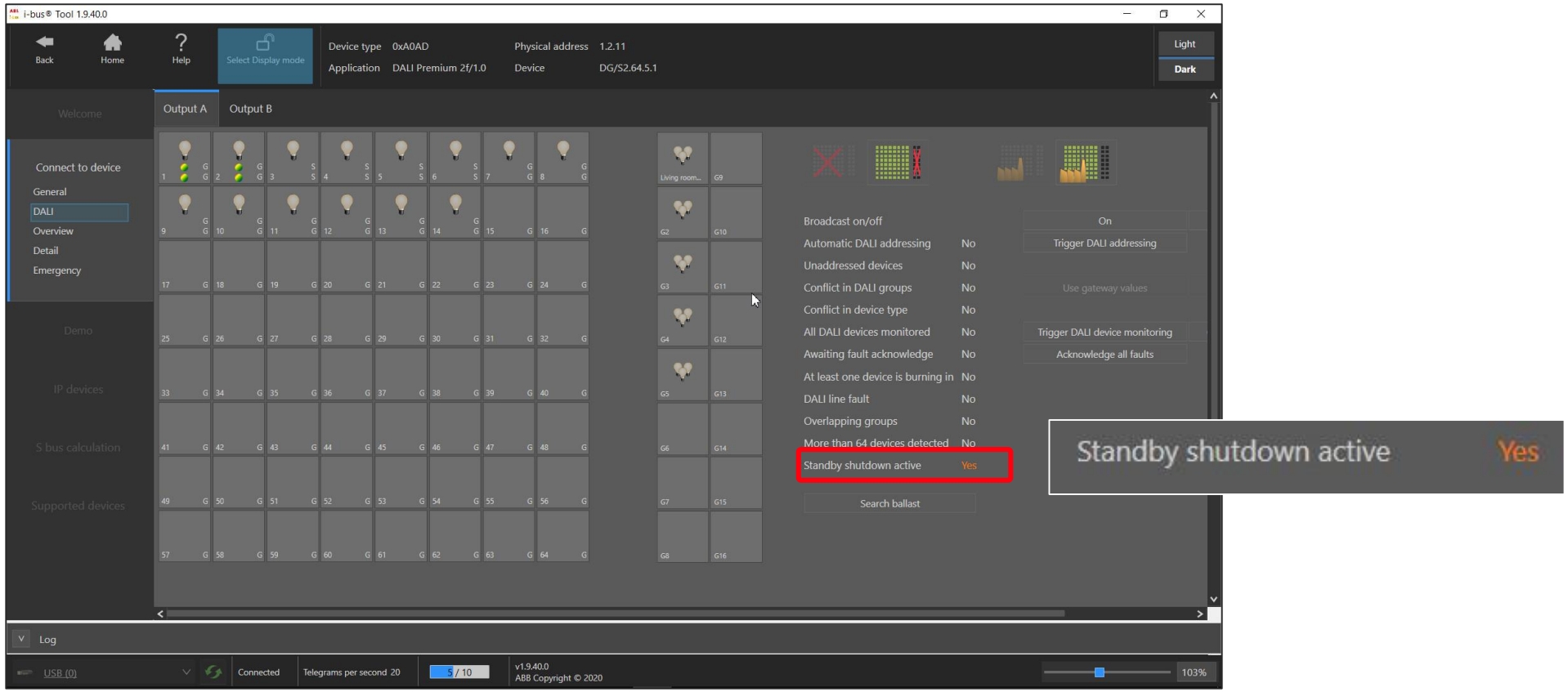
Function “Standby switch-off” – ABB i-bus® Tool



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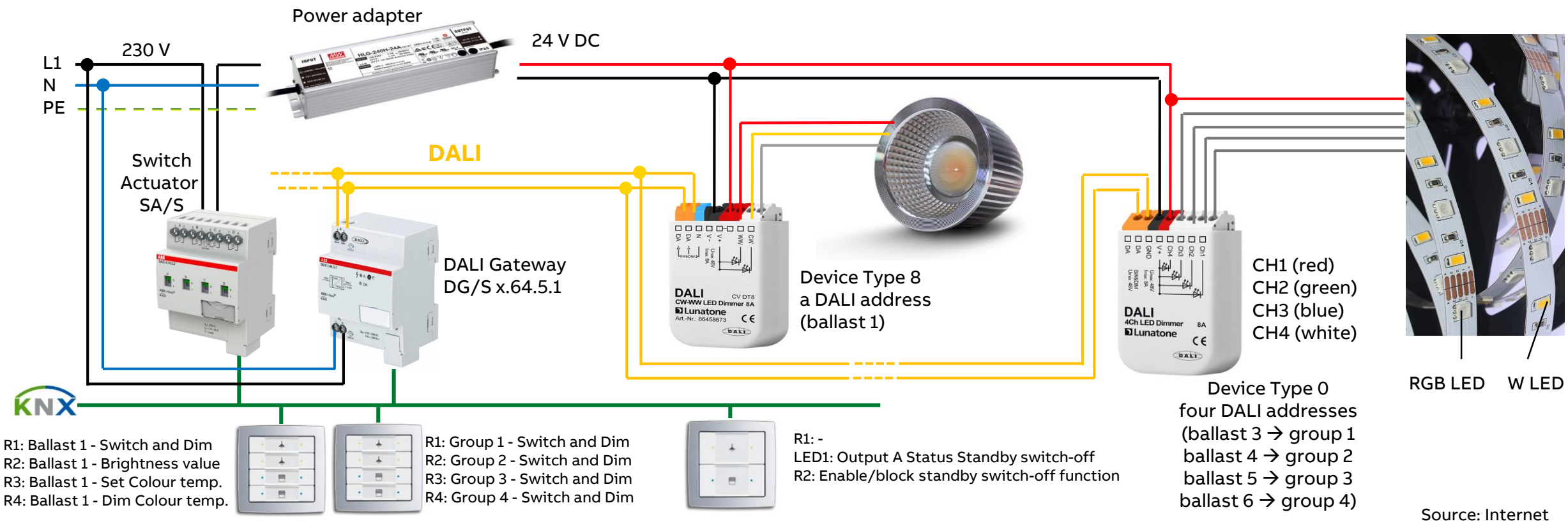
Function “Standby switch-off” – Example



Source: Internet

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DALI light scenes with individual brightness and colour temperature level

Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

DALI light scenes with individual brightness and colour temperature level

Controlling Scenes

Typical applications of scenes

- Training room: Start, coffee break, end, …
- Hotel room: Access, insert and remove key card, , …
- Residential home: Night, welcome, good bye, alarm, vacation, …
- Shutter control: Sunrise, night, rain, …
- Room: Occupied and not occupied
- RGB control (DALI): Coloured light
- Tunable white (DALI): Coloured temperature light

and many more

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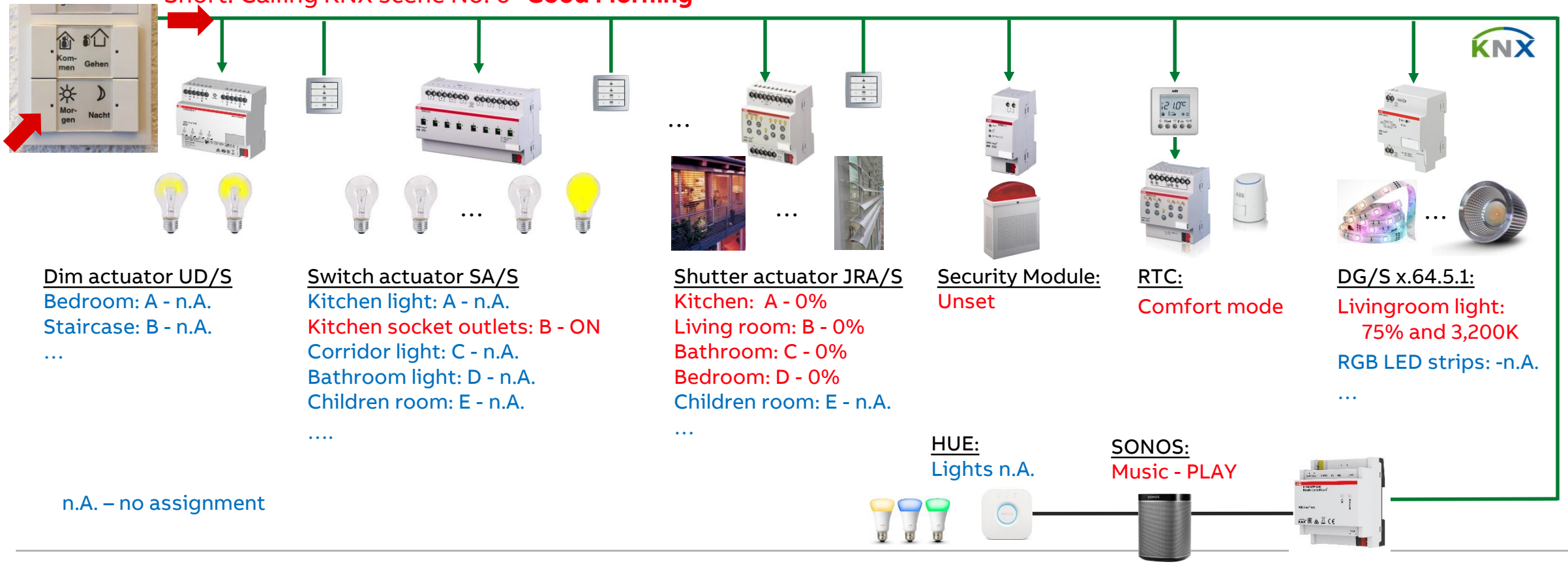
DALI light scenes with individual brightness and colour temperature level



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DALI light scenes with individual brightness and colour temperature level

Commissioning of scenes

Set ETS parameter: DALI Output A → DALI Configuration

– Enable DALI scenes (scene control)

Set ETS parameter: DALI Output A → Scenes

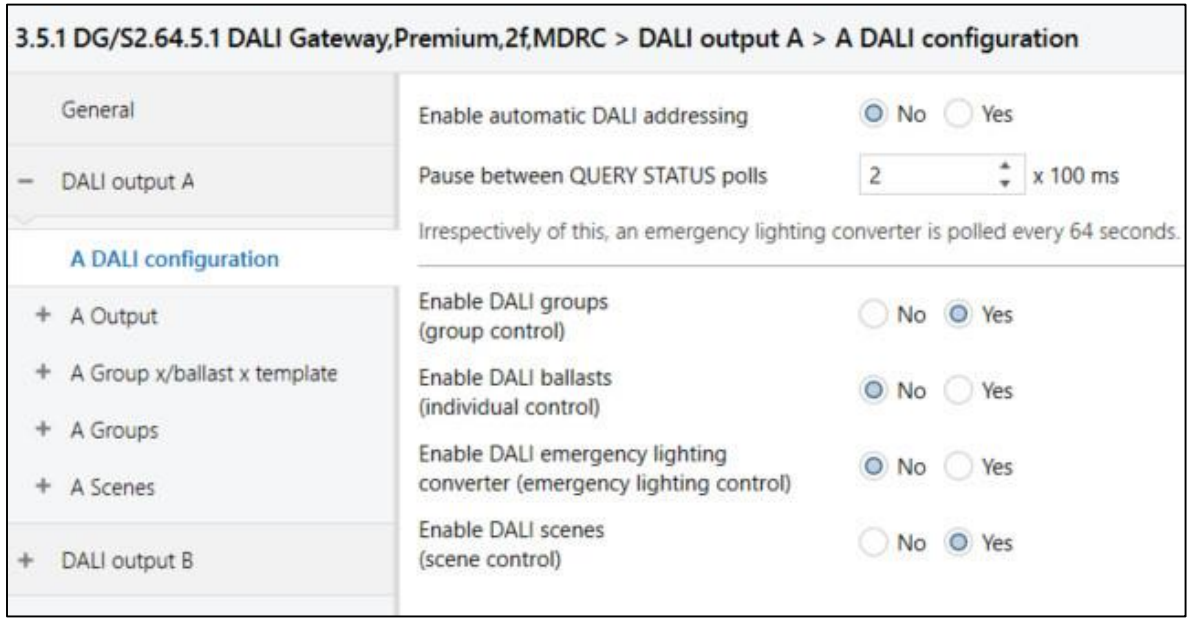
– Linking DALI scenes with KNX scenes

– Enable 1-bit group objects for scene retrieval (when needed)

– Set the transition time, brightness and colour temperature values when the scene is recalled

Link the scenes group object to all involved actuator channels

If the colour function (HCL, Dim2Warm) is activated, the behavior when calling a scene can be set (ignore or deactivate the colour function and adopt the scene value)



Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

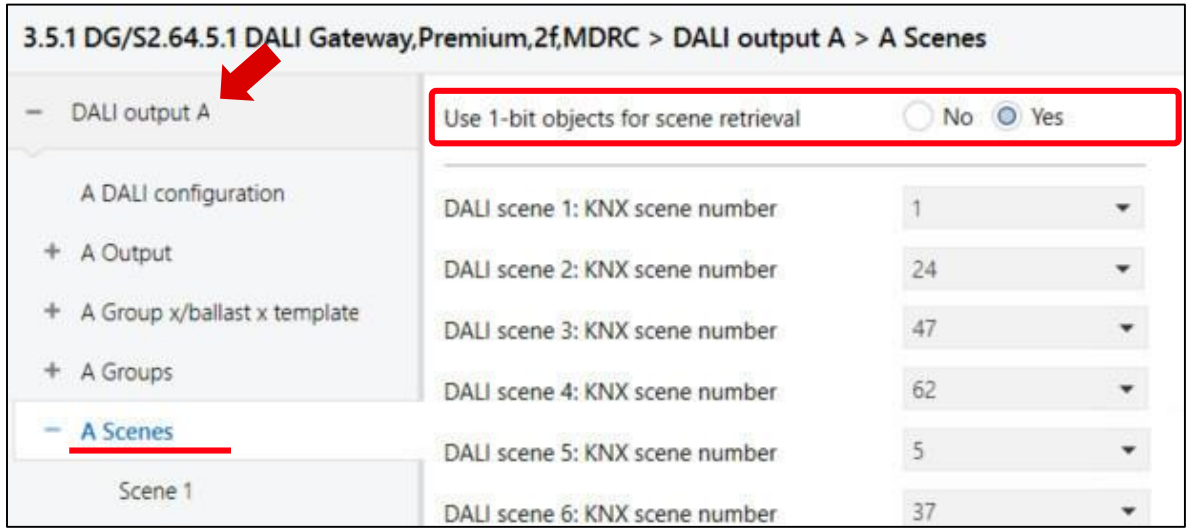
DALI light scenes with individual brightness and colour temperature level

Use 1-bit group objects for scene retrieval

In addition, the scenes can also be called up using a 1-bit telegram

This parameter enables the 1-bit group object “DALI Scene x”, which can be used to retrieve scenes

- No
  - The group objects are not enabled
- Yes
  - The 1-bit group objects are enabled
  - Scenes can be retrieved with a “0” or “1” on these group objects



Nu	Group Address	Name	Object Function	Length	Data Type
35	1/4/35	Output A	KNX scene 1...64	1 byte	scene control
36	1/4/36	Output A	DALI scene 1	1 bit	trigger
37	1/4/37	Output A	DALI scene 2	1 bit	trigger
		Output A	DALI scene ...	1 bit	trigger
51	1/4/51	Output A	DALI scene 16	1 bit	trigger

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DALI light scenes with individual brightness and colour temperature level

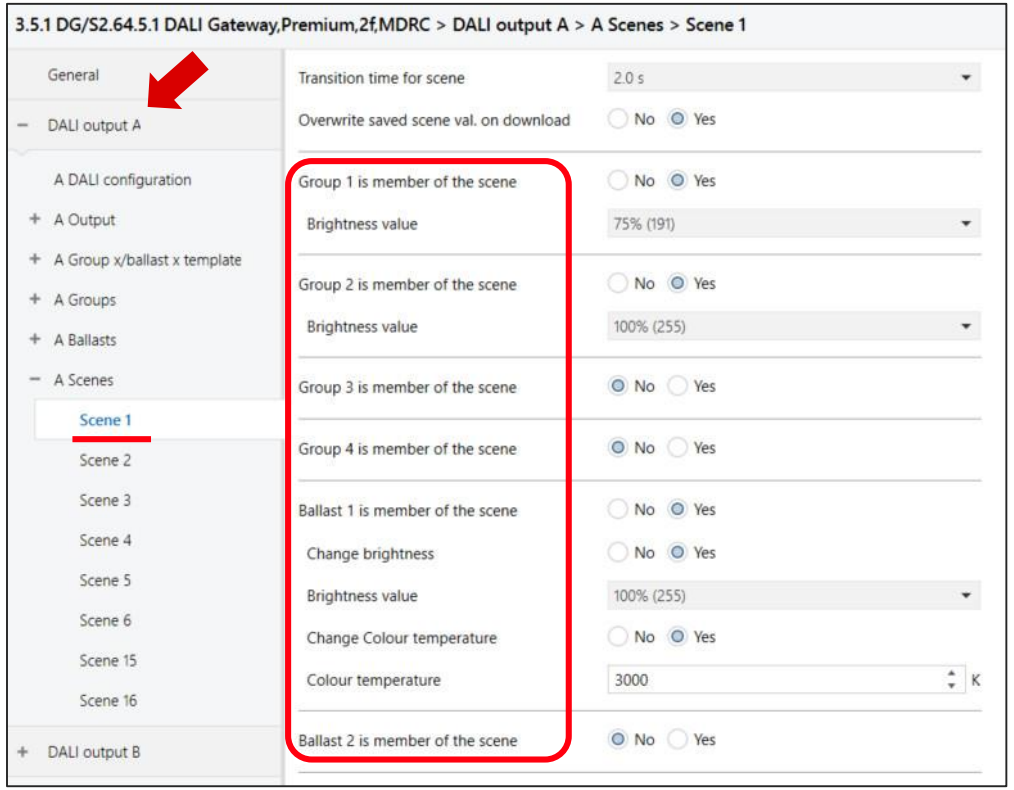
“Scene x” parameter window

This parameter window is visible if “DALI scene x” is assigned to a “KNX scene” in the “Scenes” parameter window

The properties of the scenes and their members are parametrized in this window

A scene member can be any ballast or group on the DALI output

For a better overview, only the groups and ballasts used are displayed



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DALI light scenes with individual brightness and colour temperature level

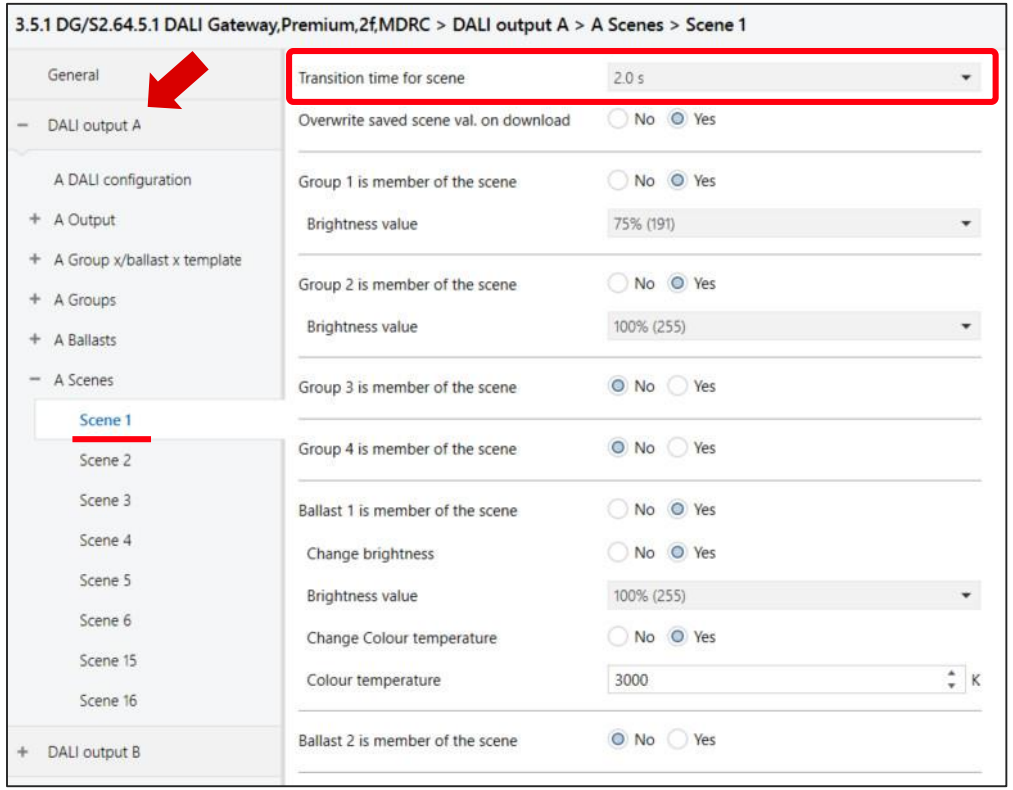
Transition time for “Scene x”

This parameter defines how long it takes for scene members to reach their scene value (brightness/colour temperature value) after a scene is recalled

If the dimming process is complete, the scene members have reached the set brightness/colour temperature for the scene

These times are specified by the DALI standard and are stored in the ballast

- Jump to
- 0.7, 2.0, …, 64.0sec.
- Via group object "Flexible dimming/fade time"



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DALI light scenes with individual brightness and colour temperature level

Transition time for “Scene x”

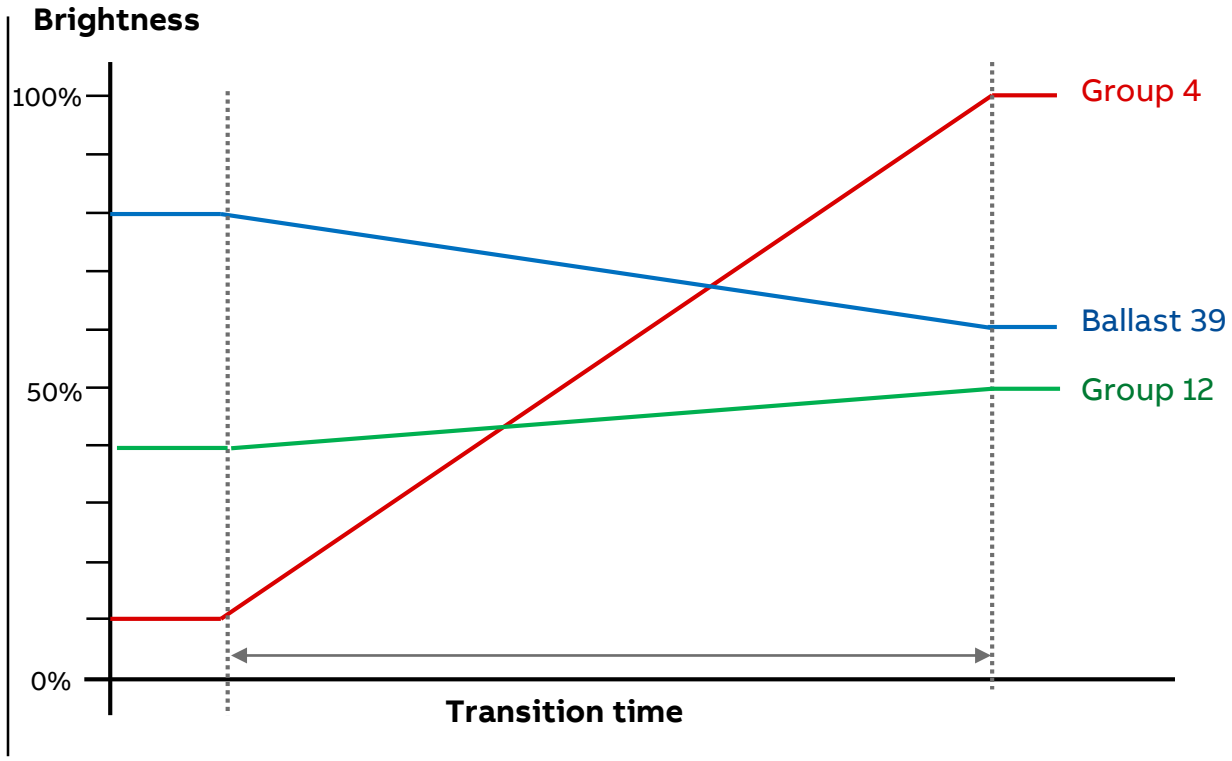
Example:

– Group 4, which is dimmed from 10% to 90%

– Group 12, which is dimmed from 40% to 50%

– ballast 39, which is dimmed from 80% to 60%

reach the set brightness value of the scene simultaneously



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DALI light scenes with individual brightness and colour temperature level

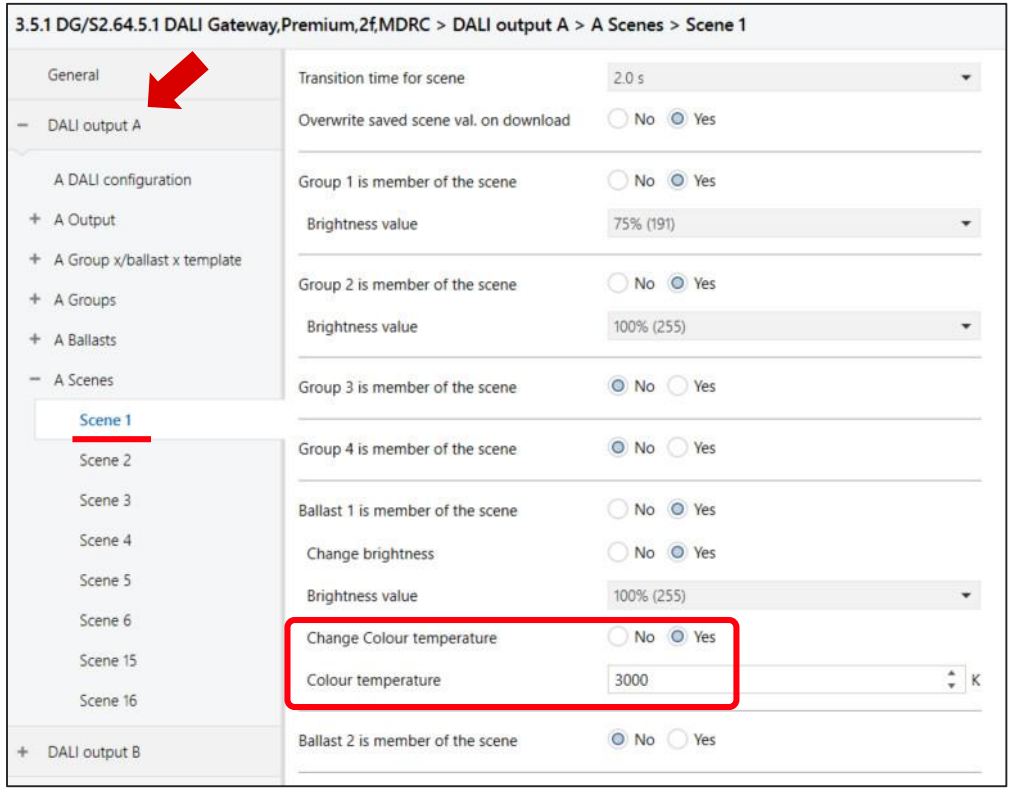
“Group/Ballast x” is member of the scene: Colour temperature

This parameter sets the colour temperature for the member's scene

– Options
  - 1,000…3,000…20,000 Kelvin

Note:

The parameter is only available if colour control is selected for the group/ballast (e.g. ballast 1) in the “Colour control type” parameter in the “X groups/Group x” or “X ballasts/Ballast x” window



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DALI light scenes with individual brightness and colour temperature level
Example: Assignment of Group Addresses

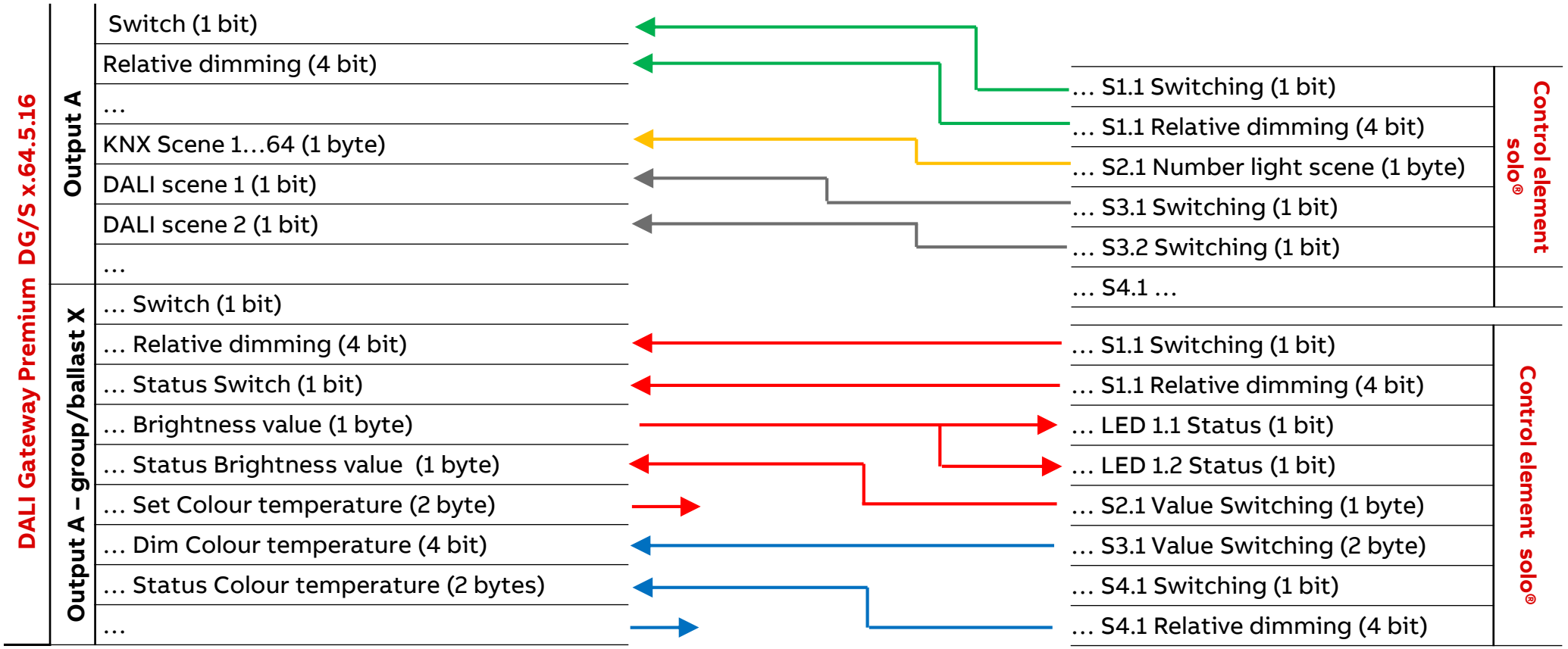

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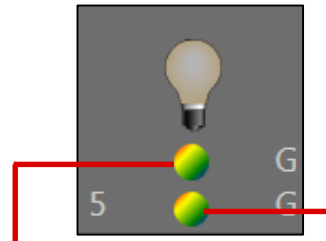
ABB i-bus® Tool

Webinar "KNX DALI Gateway Premium DG/S x.64.5.1- Special Functions"

ABB i-bus® Tool

ABB i-bus® Tool – *menu* "DALI"

- Integration of colour functions
- Shows a detected and in ETS enabled colour ballast
- Broadcast on/off
- Indicates whether there are unaddressed DALI devices
- Acknowledgment of fault notifications
- Conflict in device type
- Standby switch-off active yes/no
- Search ballasts function



Displayed if colour ballast detected in runtime

Displayed if colour ballast enabled in ETS

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ABB i-bus® Tool

ABB i-bus® Tool – *menu* "Detail"

- Read/write operating hours
- Status actual colour temperature T_c
- Adjustment of colour temperature T_c
- Status information
  - Selected colour function (Dim2 Warm, HCL)
  - Colour function active/inactive
  - Supported colour type of selected ballast/group (right now colour temperature T_c)
  - Colour temperature range of connected ballast

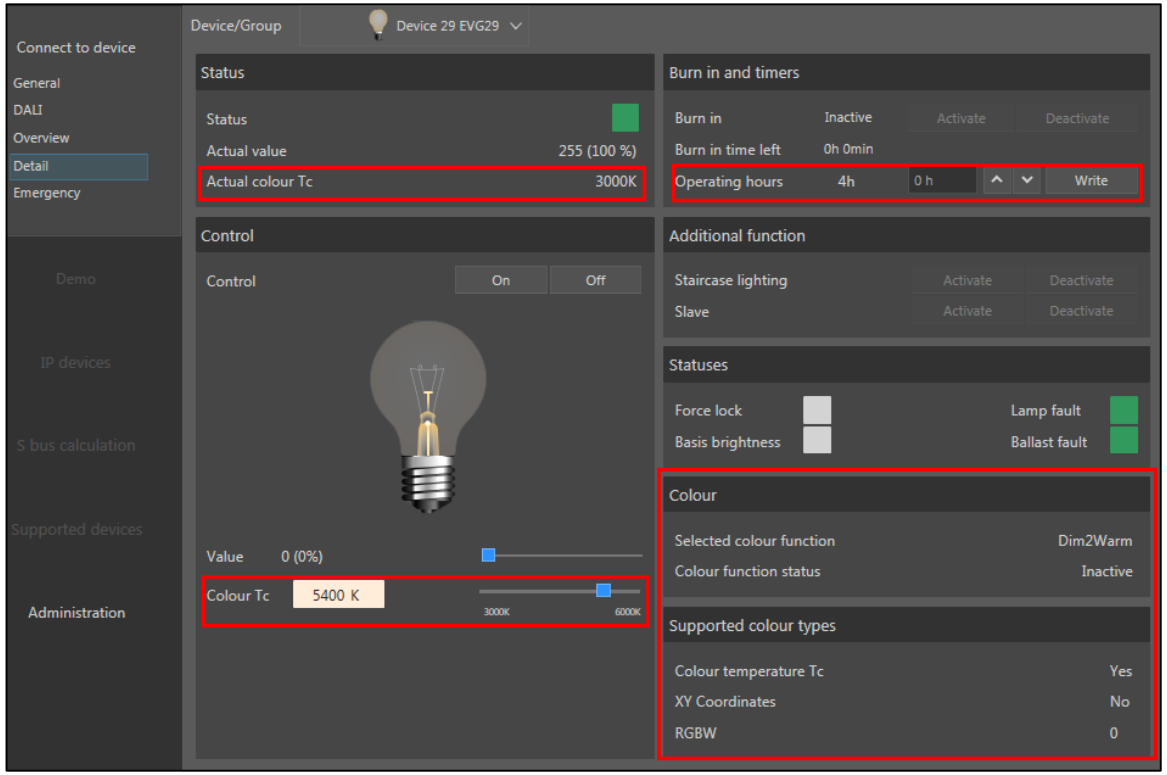

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ABB i-bus® Tool

ABB i-bus® Tool – Search Ballast Function

- Search menu for a ballast with unknown address
- Current situation:
  In the worst case, up to 64 address buttons must be pressed to identify the address of a ballast
- Search ballast function reduces it to max. 6 clicks!
- Press “Start” button and answer yes/no upon the ballast´s ON/OFF status
- Emergency devices are not supported

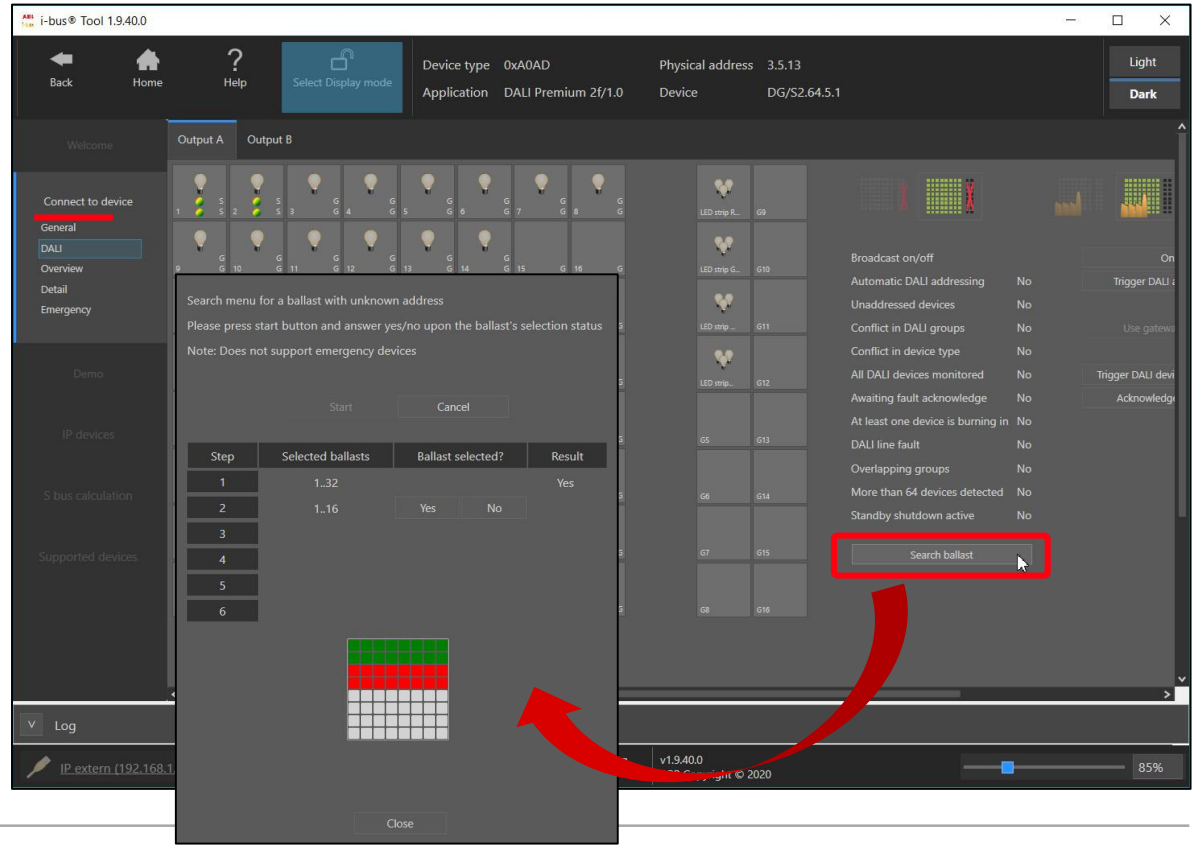

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ABB i-bus® Tool

ABB i-bus® Tool – Search Ballast Function

– Press “Start” button

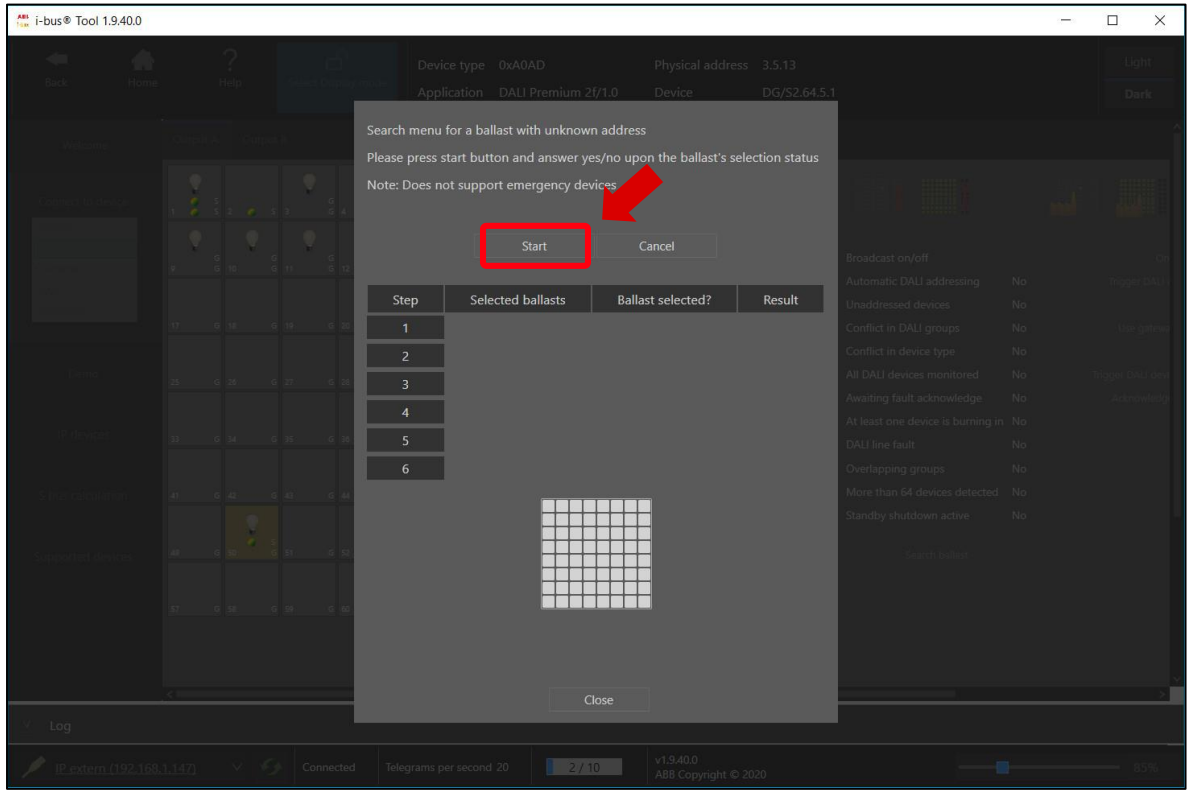

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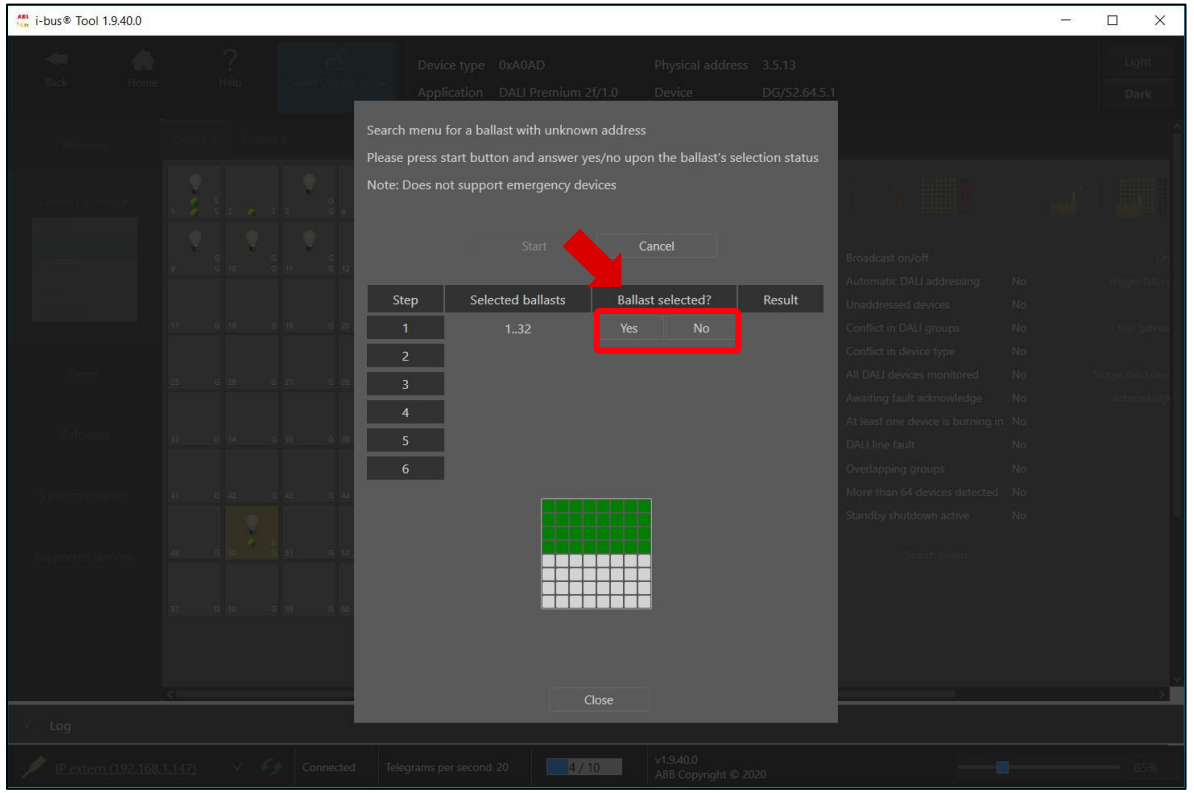
ABB i-bus® Tool

ABB i-bus® Tool – Search Ballast Function

Is the light of the ballast to be searched on?

– Press the “Yes” or “No” button → 1st click
e.g. “No” (no address between 1…32)



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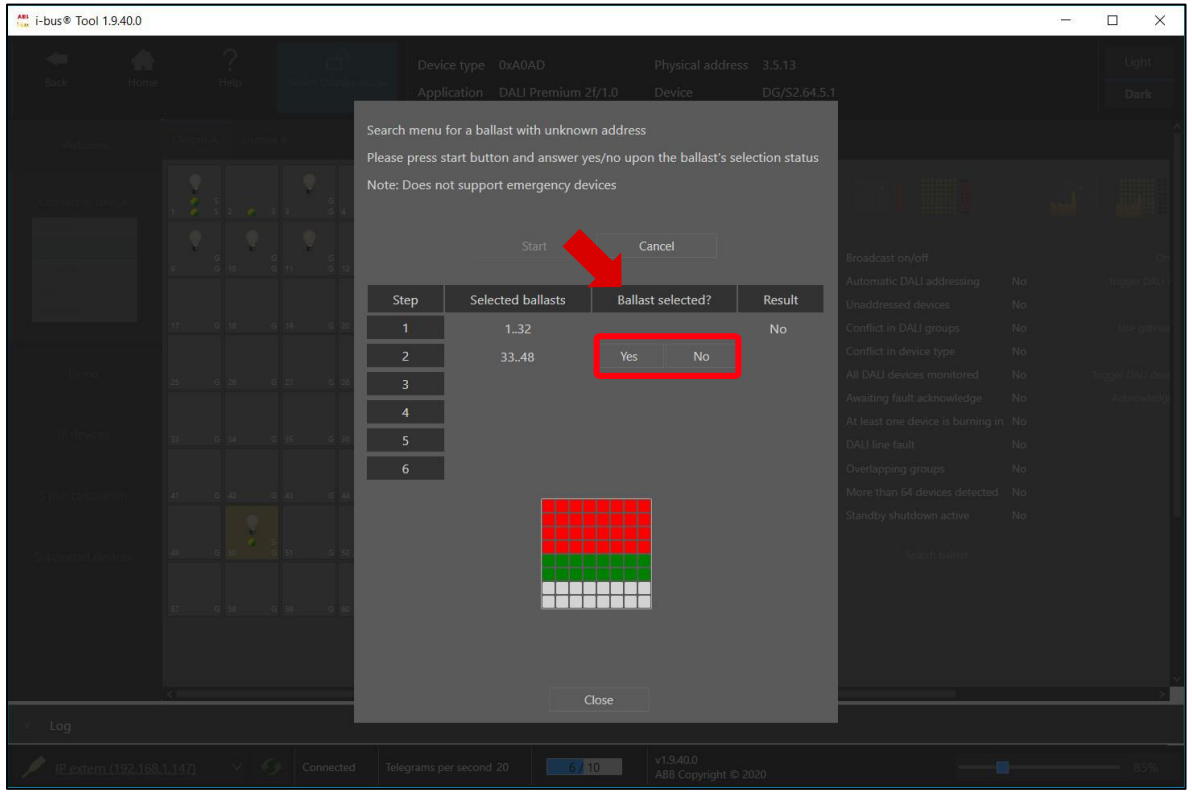

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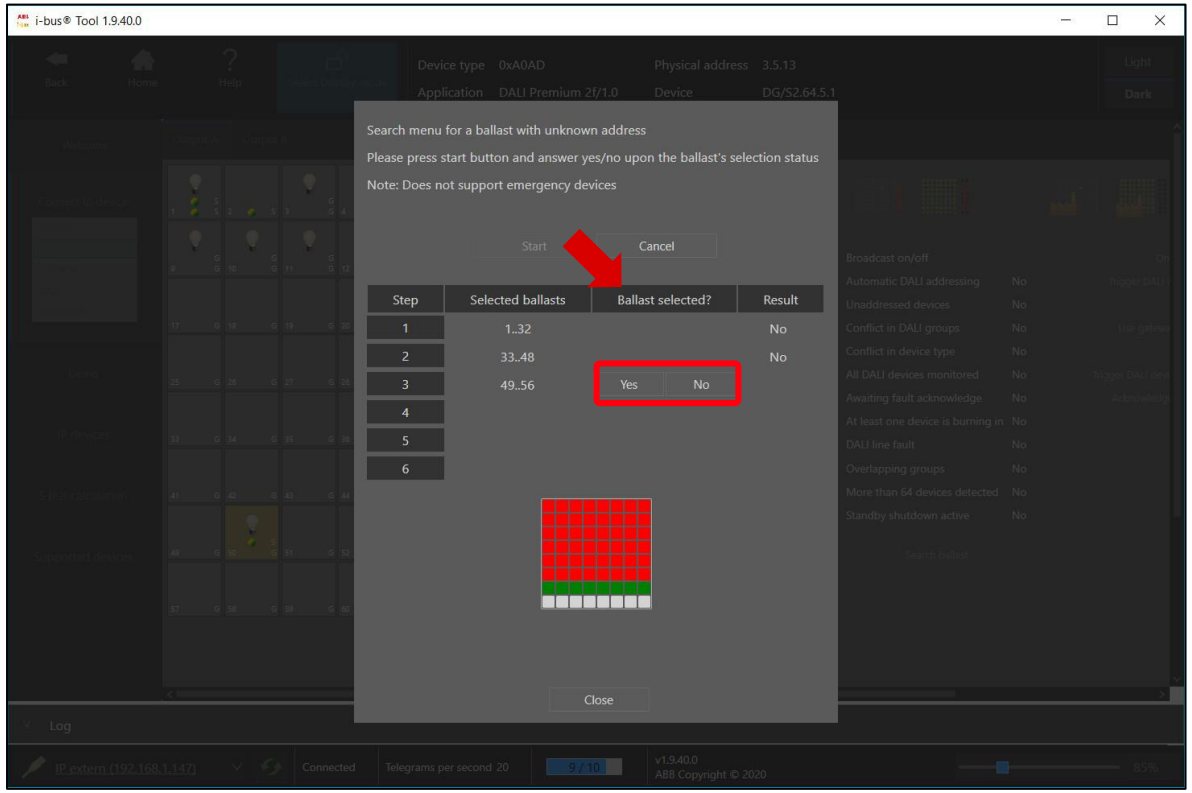
  e.g. “YES” (no address between 49…56)



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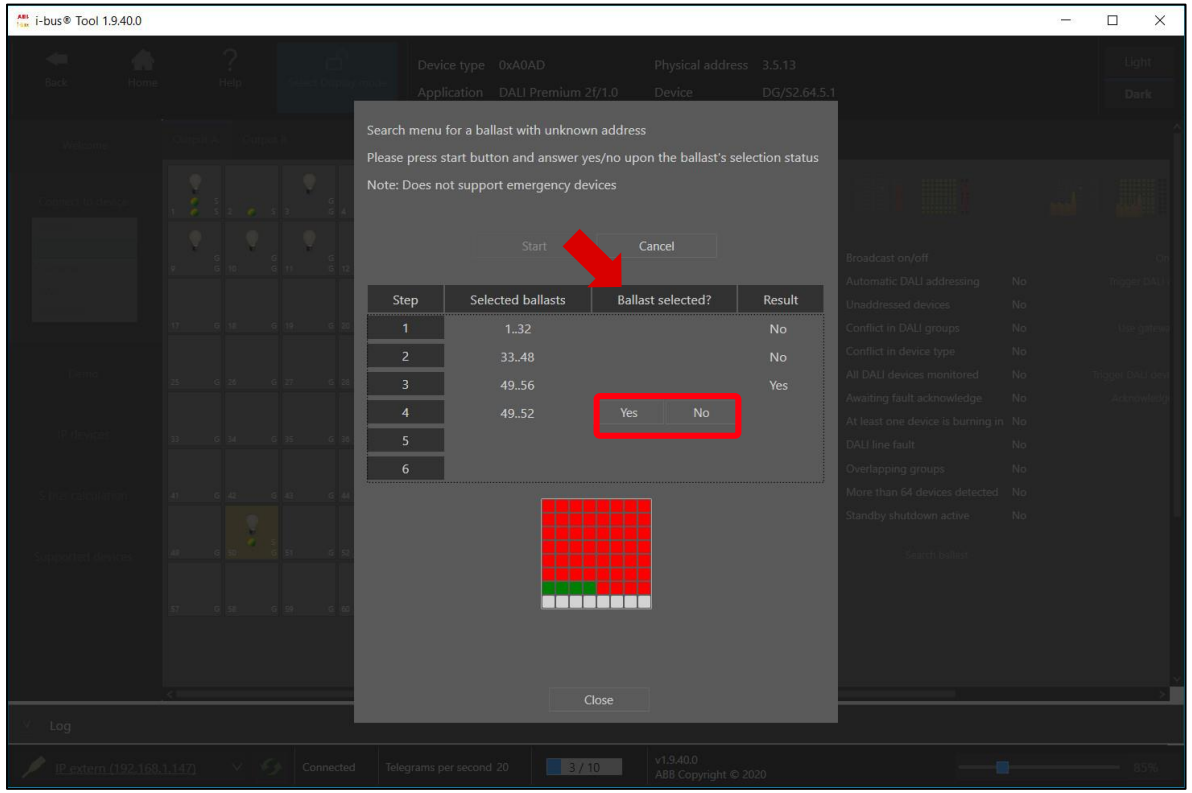
  e.g. “YES” (no address between 49…56)
- Press the “Yes” or “No” button → 4th click
  e.g. “YES” (address between 49…52)



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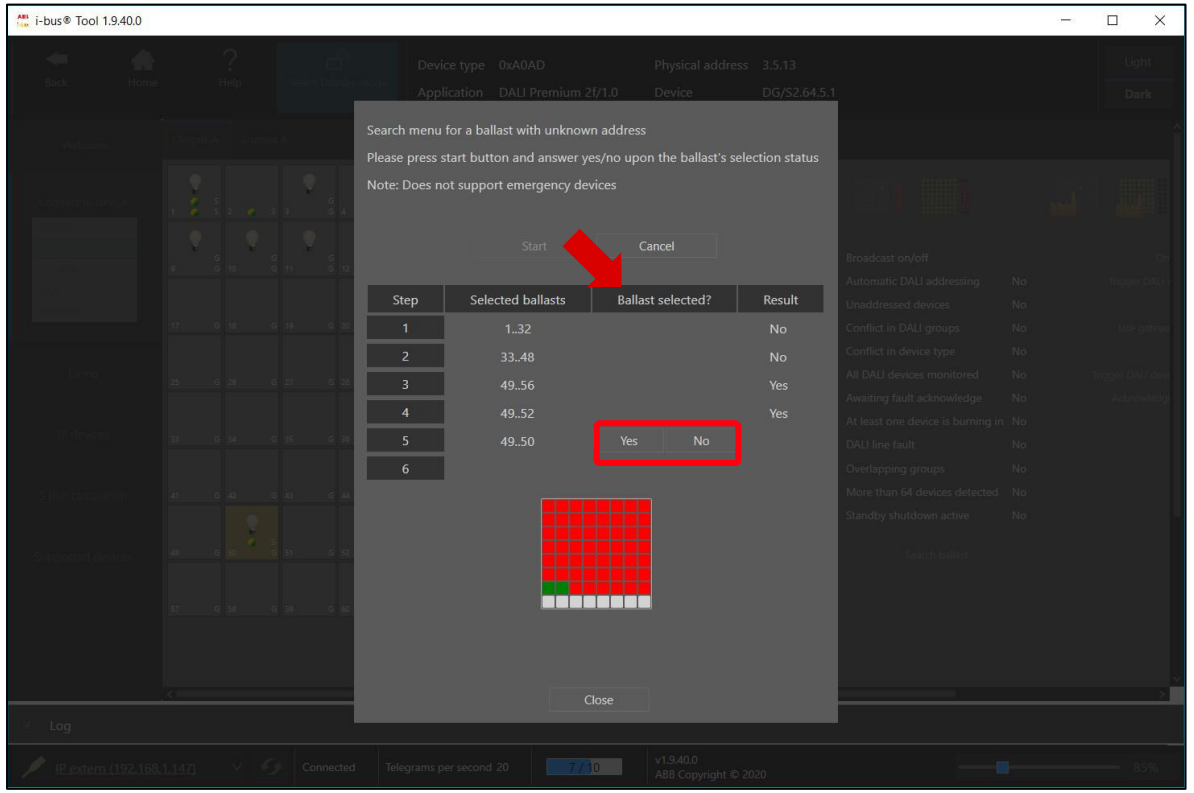
- Press the “Yes” or “No” button → 4th click
  e.g. “YES” (address between 49…52)
- Press the “Yes” or “No” button → 5th click
  e.g. “YES” (address between 49…50)



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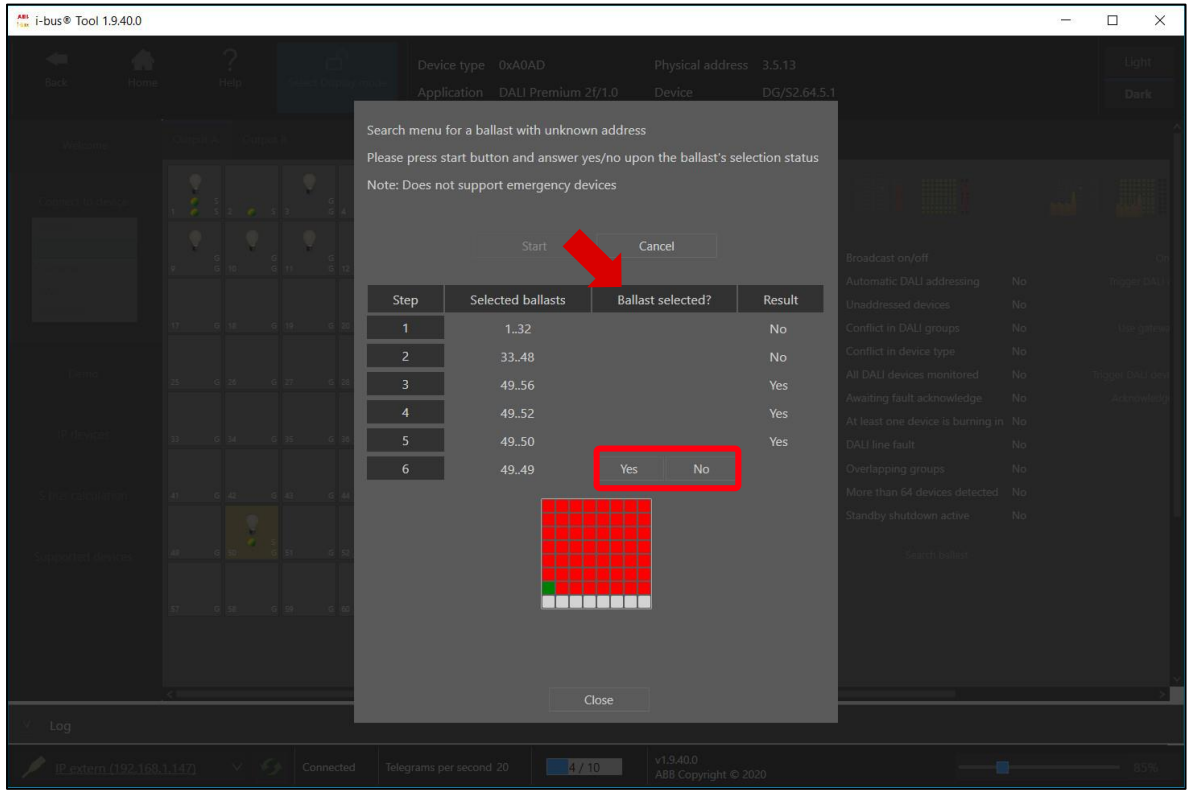

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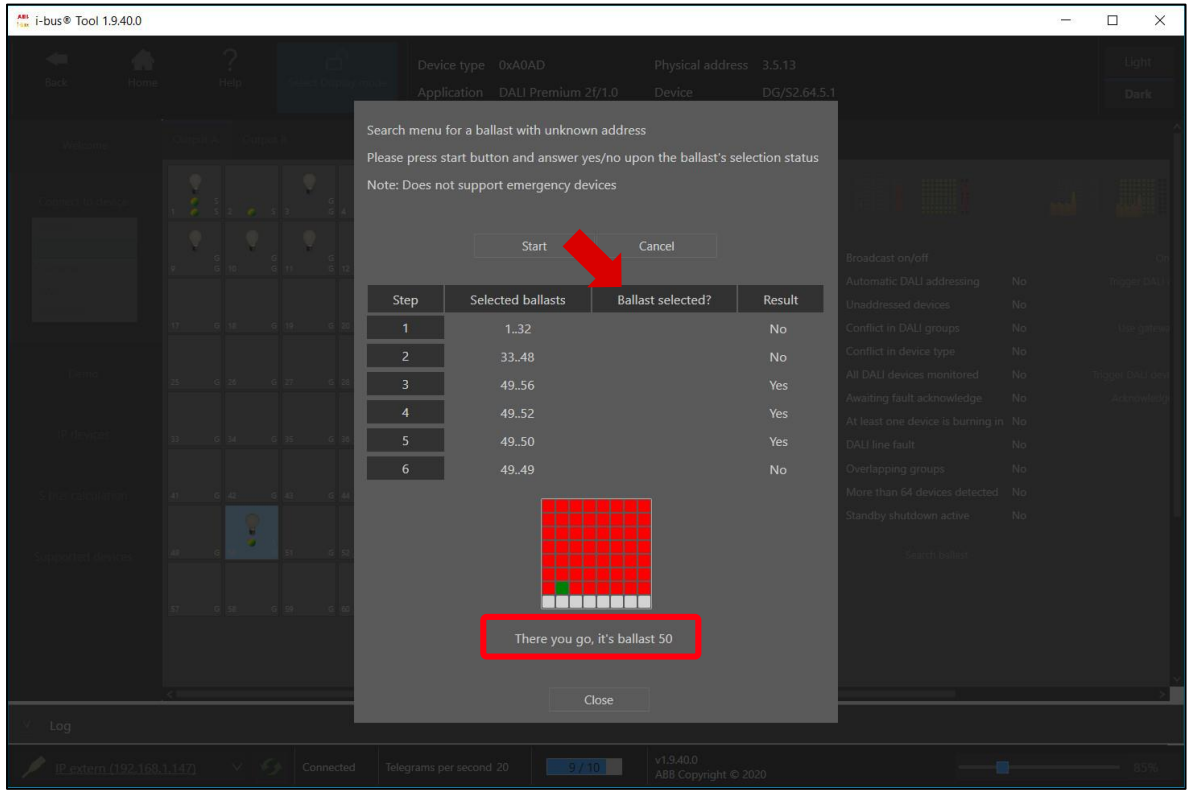
  e.g. “YES” (address between 49…50)
- Press the “Yes” or “No” button → 6th click
  e.g. “No” (address 49?)

→ Result, e.g. address 50



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→ Lighting Control
→ Search Options DG/S

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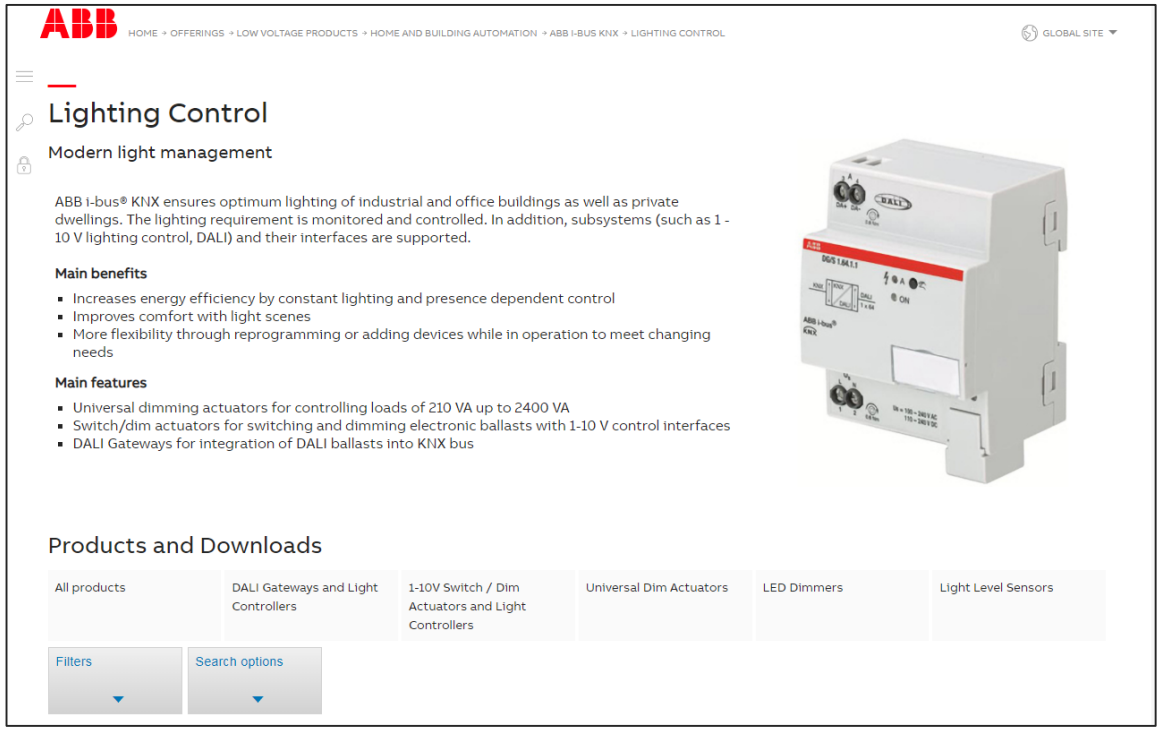
- Installation and Operating Instructions
- Specification Text
- ETS Application
- Selection Table
- CE & RoHS Declaration of Conformity
- • •



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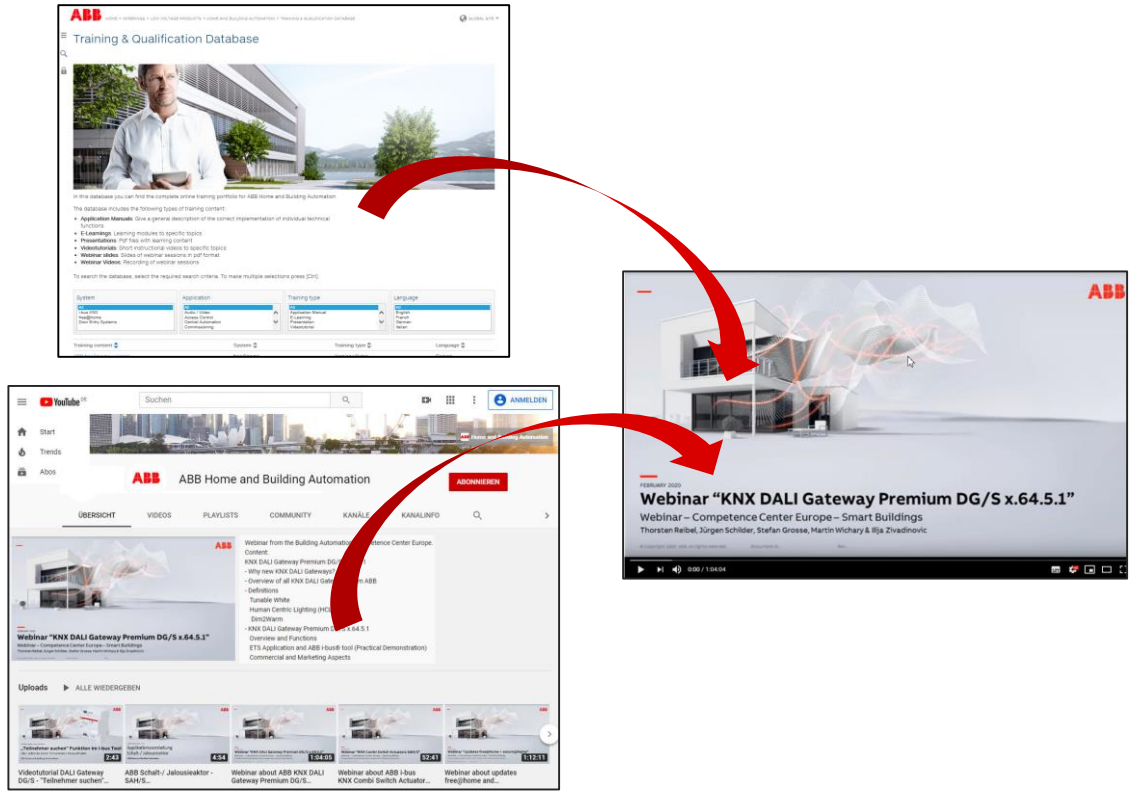
Further information

Training & Qualification Database

– The database includes the following types of training content:
  - Application Manuals
  - E-Learnings
  - Presentations
  - Video tutorials
  - Webinar slides and videos
  - ww.abb.com/knx or https://go.abb/ba-training

Youtube

– Channel “ABB Home and Building Automation”
  - https://www.youtube.com/user/ABBibusKNX



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Training & Qualification Calendar

In addition to the online modules and the traditional training programs offered by your local ABB sales team, we offer a variety of on-site trainings conducted by our specialists at different ABB training facilities

In this Training & Qualification Calendar you can find the educational events that are taking place during 2020

If you are interested in a training please click the training und you will be forwarded to register in “ABB MyLearning”

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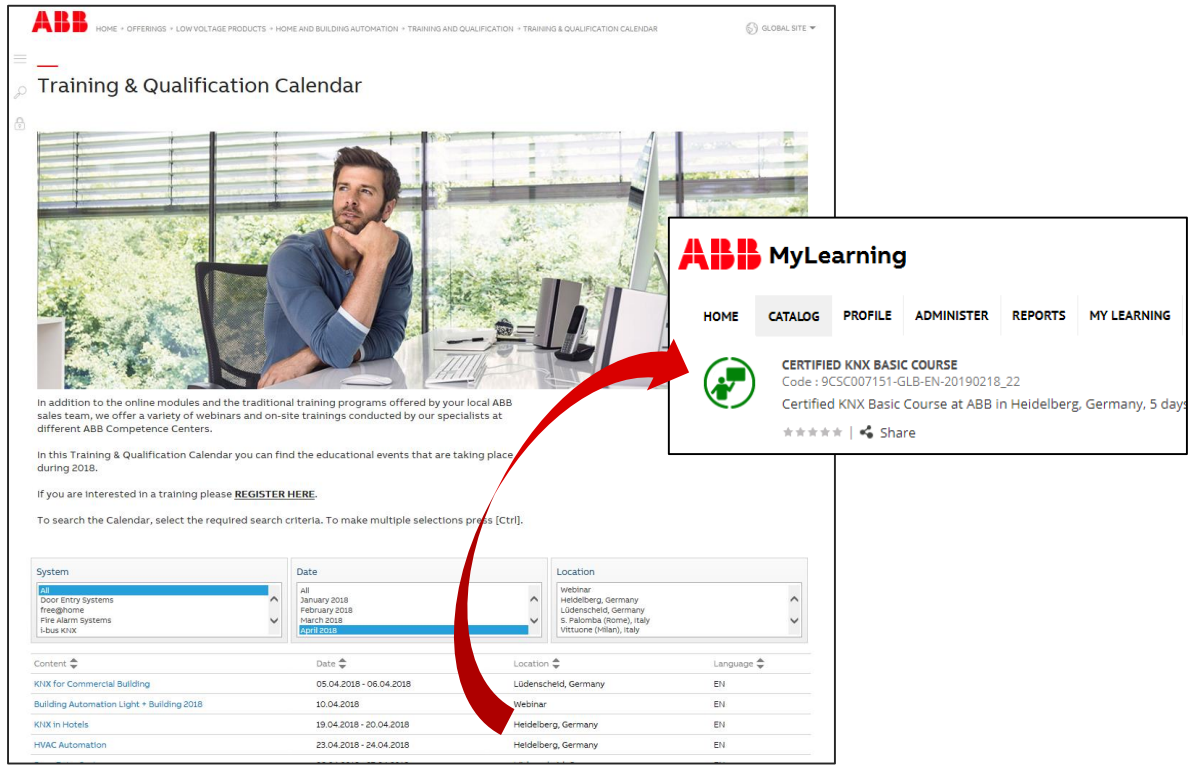
→ Training and Qualification

→ Training Calendar



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