Switch/dim actuator N 525D11
2x DALI Broadcast

Lighting control for perfect spaces

The new switch/dim actuator is used anywhere complex DALI light control systems need to be operated energy-efficiently and with low maintenance costs. The new device has a multitude of functions to increase comfort such as the control of several electrical ballasts.

With Tunable White and up to seven adjustable dimming curves, lighting can be adapted to any situation. Moreover, the devices offer the option of saving light scenarios, sending status and error notifications, and counting of switching cycles and operating hours. Especially in combination with presence detectors, which control brightness fully automatically, the new switch/dim actuators offer the best foundation for optimal light conditions in the room.

Individual light customization with Tunable White

The new switch/dim actuator serves as an interface between the KNX installation and the DALI lighting system. The device also supports Tunable White, a variable and seamless color temperature control from warm to cold white light.

Dynamic color temperatures do not only favor a good atmosphere in the room, but contribute to human well-being. This follows the concept of Human Centric Lighting, a way to plan lighting based on human needs. Whereas cold white light promotes concentration, warm white light has a calming effect. This way, the light in a room can be positively adjusted to individual demands and situations. Adapted color temperature can ensure perfect visual and working conditions, which are indispensable especially in educational facilities and offices.
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Highlights

- Tunable White
- Higher light comfort due to energy-saving switching and dimming of up to 20 DALI ECGs per channel in broadcast mode
- Optimal lighting for high comfort thanks to adjustable dimming
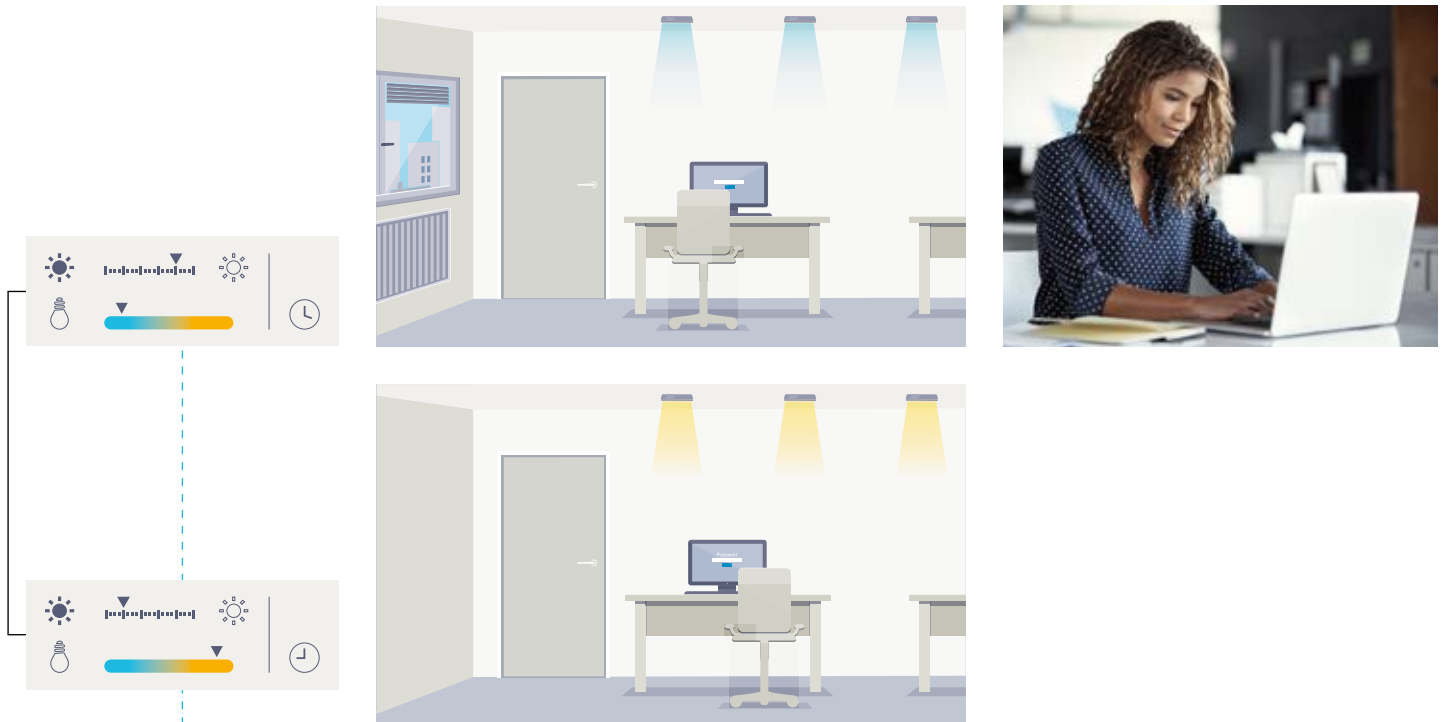- Easy installation and low maintenance expenses

The switch/dim actuator N 525D11 is a DALI-2 certified device. It has successfully completed the DALI-2 certification process operated by DiiA, ensuring even more the interoperability to other certified devices.
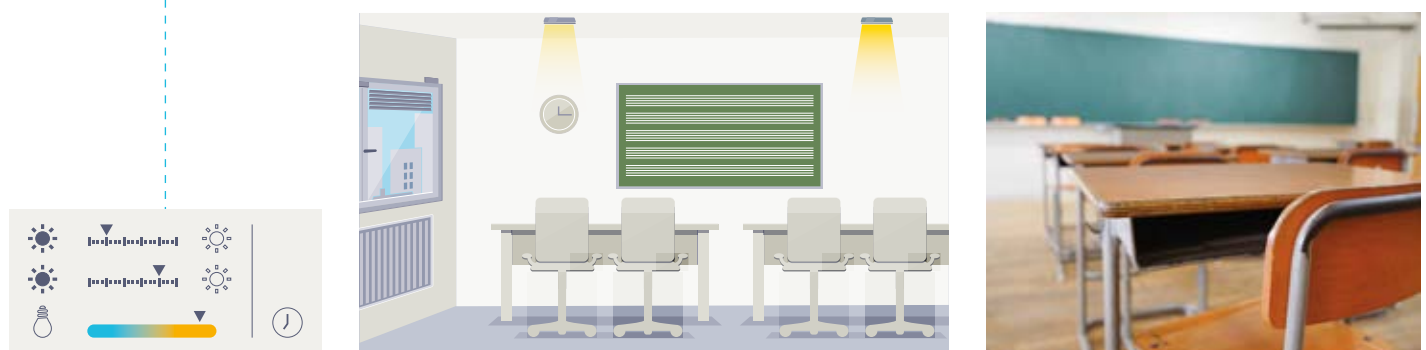
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Broadcast applications

Simultaneous control of brightness and color temperature is possible with a presence detector or by manual operation. Schedules can be made via KNX visualization.

Broadcast application – two rooms (one channel per room)

Broadcast application – one room
(one channel per door side and one channel per window side)

Tunable White

Schedules that send a color temperature value for every specified time
• N152 IP Control Center
• Desigo CC Compact for electrical applications

Brightness is controlled in parallel
• Presence detector UP 258 with constant lighting regulation
• Manual operation using KNX buttons

KNX

Brightness

Color temperature

DALI Device Type 8 (DT8)

All the important information
at a glance

Product features

Switch/dim actuator N 525D11, 2x DALI Broadcast

- Control capacity for up to 20 DALI ECGs per DALI output
- With an integrated net device for power supply of the device electronics and DALI outputs
- With DALI output power of approximately 19 V, potential-free and short-circuit proof
- LED display to display operating states and the following error notifications:
  - Defective lights
  - External voltage on DALI line
  - Short circuit DALI line
  - No ECG found
- Buttons on the front of the device to deactivate direct operation and LED to show status in direct operation
- Pair of buttons per DALI outlet for joint switching on/off and dimming of all connected lights in direct operation
- Building site function that enables in factory condition the switching on/off of building site lighting using a bus key and an actuator, even if these devices are not yet launched with the Engineering Tool Software (ETS)
- With DALI-2 certification

Control functions
- Color temperature control (Tunable White)
- Seven dimming curves can be set up to optimize dimming behavior of lights
- Selectable operation type normal operation, 1 or 2-step timer operation, blinking
- Adjustable actuating value input object for switching on/off depending on actuating value
- Central switching with separate adjustable delayed switching on/off
- Adjustable dimming and color temperature value on switching on
- Status object switching and/or status object dimming and color temperature value
- Integrated 8-bit scenario control with up to eight scenario assignments per outlet
- Two selectable logical connections (AND, OR, NOT/AND, NOT/OR, EXCLUSIVE/OR, FILTER, TRIGGER)
- Night operation object can be added for time-limited switching on of the outlet, for example lighting

Override functions
- Manual override ON
- Duration OFF
- Locked mode
- Central override
- Override on or off

Diagnostic functions
- Operating hours counter with threshold monitoring
- Switching cycle counter with threshold monitoring
- Status and error notifications

Selection and catalog information

Type	Model	Catalog no.	PU (unit, set, M)	PKG/VPE	PG	Price (€)
N 525D11	Switch/dim actuator 2x DALI Broadcast	5WG1525-1DB11				

Smart Infrastructure intelligently connects energy systems, buildings and industries, enhancing the way we live and work to significantly improve efficiency and sustainability.

We work together with customers and partners to create an ecosystem that both intuitively responds to the needs of people and helps customers achieve their business goals.

It helps our customers to thrive, communities to progress and supports sustainable development to protect our planet for the next generation.

Creating environments that care.
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