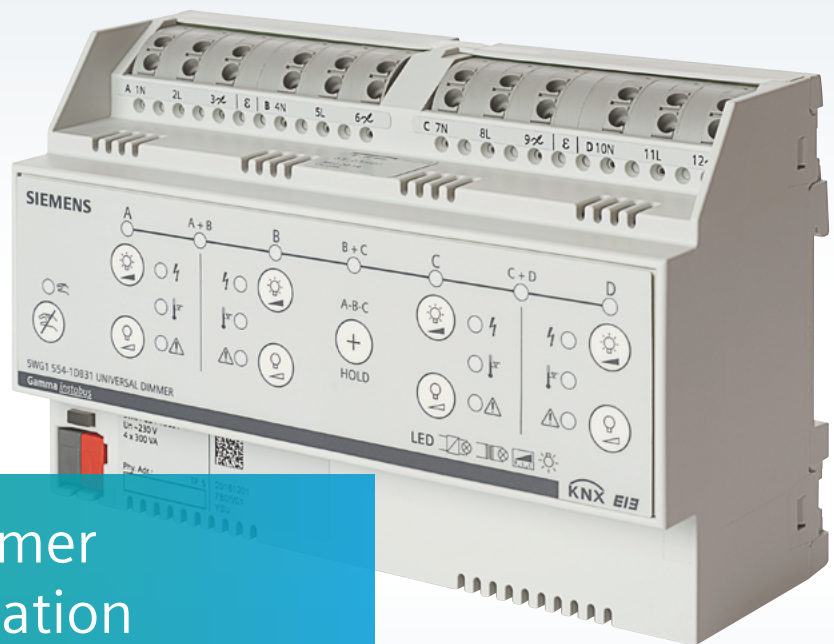




SIEMENS
Ingenuity for life



The universal dimmer for perfect illumination

Channel bundling for high-performance lighting
with no minimum load

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The worldwide
standard for
home and
building control



Universal dimmer for LEDs and conventional illuminants

The new universal dimmer N 554 in the new design with DIN rail-mounted devices expands the Siemens GAMMA instabus lighting control product range. Its four independent channels enable the new product to deliver seamless dimming adjustment for dimmable LED retrofit bulbs and bulbs in all other dimmable categories, with no minimum load. The universal dimmer's front panel makes it easy to check and operate. Channel bundling allows outputs to be combined so the load can be increased up to 1,000 VA.

Dimming LEDs

The universal dimmer fulfills all requirement for dimming all dimmable bulbs, and dimmable LED bulbs in particular. It reliably dims even small bulb outputs of just a few watts of power. Despite the low load, the LED dims to complete shut-off.

Optimal dimming behavior

The universal dimmer has the same hardware and software features of the new generation of the GAMMA DIN rail-mounted device. The ETS commissioning software permits users to configure optimal dimming behavior. Especially useful are the setting options for predefined or freely defined dimming curves.

Intuitive front panel

Status LEDs and push-buttons permit convenient operation at the front panel to check the installation. With one click, users can switch and dim the ballasts, configure the channel bundling, and detect faults. Channel bundling can be adjusted directly, without ETS.

Highlights

- Dimming of LEDs and conventional bulbs
- Channel bundling of four channels for high illumination up to 1,000 VA.
- Optimal lighting for high comfort thanks to adjustable dimming behavior
- Easy installation check at the front panel



Reliable dimming of LEDs

Digitalization is uniting the real and virtual world. Modern lighting concepts can be realized through innovative lighting options. In addition to basic functions like switching lighting, the universal dimmer also offers comfort functions like dimming without changing the cabling, so that all switchable standard bulbs can be switched on and dimmed via a normal socket. This allows high-quality products to be displayed in stores at different light intensities, which positively

influences the customer's perception. The integrated scene control makes it possible to save several levels of light intensity for different situations and apply them when required.

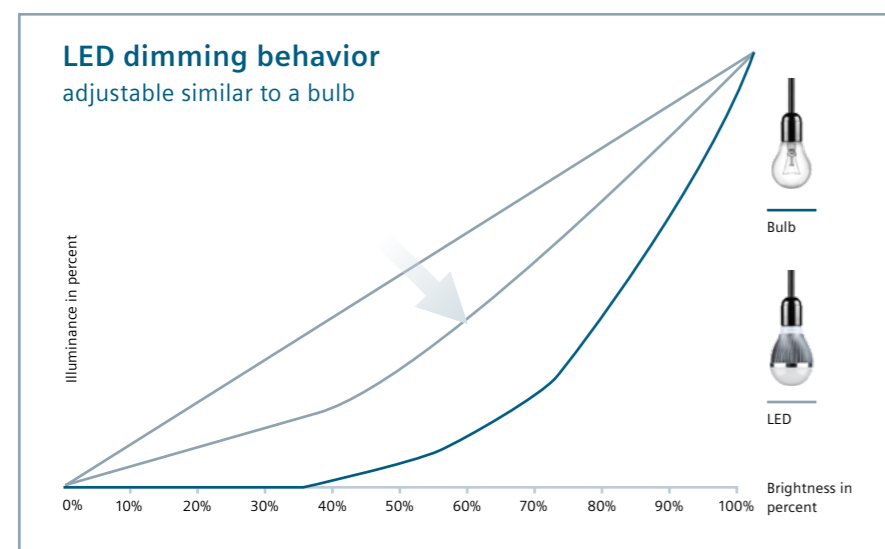
Channel bundling of up to four channels for high output

Strong illumination can be realized by bundling channels up to 100 VA. Bundling two channels increases the output to 300 VA and 500 VA. Bundling three channels increases the output to 750 VA and four channels to

1,000 VA. Adjacent channels can be bundled as follows: A+B|C|D, A|B+C|D, A|B|C+D, A +B|C+D, A+B+C|D, A|B+C+D and A+B +C+D.

Adjustable dimming curves

For greater comfort and flexibility, the universal dimmer offers the option to adjust the dimming behavior of LEDs so that it resembles that of conventional bulbs. The graph shows the typical dimming behavior of an LED compared with a bulb. In the ETS, users can adjust the setting of the LED dimming curve to parametrize the control of brightness relative to dimness. These bulbs can be dimmed brighter or darker in the mid-dim region.



All key data at a glance

Technical data



Universal dimmer N 554D31

- Four outputs for switching and dimming of resistive, inductive, and capacitive loads
- Automatic adjustment to leading-edge or trailing-edge control, depending on the type of load
- Rated operational voltage AC 230 V
- Rated frequency 50 and 60 Hz
- Rated power at +45° Celsius ambient temperature: up to 300 VA per output, up to 1,000 VA with bundling of adjacent outputs, with no minimum load per output
- Electronic protection per output against overload, short circuit, and temperature increase
- Maintenance-free terminals for connection and through-wiring of untreated single-core, stranded, or multi-core conductors, 0.5...2.5mm²
- Manual operation buttons on the device for switching, dimming, and activation of direct-mode operation
- Bus-powered electronics
- DIN rail-mounted device for mounting on rail TH35 according to DIN EN 60715
- Building site function for bundling the outputs and switching the building site lighting without prior configuration of the device via ETS
- Objects for surveillance device function and retrieving status values

- Per output with selectable operation mode
- Object Central Switching with separately configurable on/off delay selectable
- Separately adjustable dimming time from zero to 100 percent for switching on/off and dimming brighter/darker
- Switch an output on or off by dimming brighter/darker
- Configurable dimming curves for optimizing the dimming operation
- Configurable maximum and minimum dimming value via parameter and object
- Adjustable blocking time for sending status objects after restart and bus voltage recovery
- Integrated 8-bit scene control, output can be linked in up to eight scenes
- Additional night mode object for time-limited switching on the output at night
- Post-triggering of the On period (On-period extension) in time-switch mode up to a selectable maximum on-period extension via repeated post-triggering (2x, 3x, 4x, 5x)
- Selectable counting with threshold monitoring: operating hours, load cycles

Connected load depending on lamp type*

Lamp type	1 channel	With bundling of		
		2 channels	3 channels	4 channels
Dimmable LED Mode of operation: Leading-edge control	≤60 VA*)	≤100 VA*)	≤140 VA*)	≤180 VA*)
Dimmable LED Mode of operation: Trailing-edge control	≤200 VA*)	≤300 VA*)	≤450 VA*)	≤550 VA*)
Low-voltage halogen lamps with magnetic transformers	240 VA	400 VA	600 W	800 VA
Low-voltage halogen lamps with electronic transformers	300 VA	500 VA	750 VA	1000 VA
High-voltage halogen lamps	300 W	500 W	750 W	1000 W
Incandescent lamps	300 W	500 W	750 W	1000 W

*) The maximum connected load at the output depends on the lamp type and mode of operation (leading-edge or trailing-edge control).

Selection and ordering data

Type	Product title	DT	Order no.	PU (Unit, set, M)	PS/P unit	PG	Weight per PU (kg)	Price
N 554D31	Universal dimmer N 554D31	A	5WG1554-1DB31	1	1		0.330	

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**Published by
Siemens Switzerland Ltd 2018**

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Article no. E10003-C38-8B-M0200 (Status 05/2018)

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