

KNX dimming actuator 1-gang 200 W with 3-gang binary input



Specification	Order No.	Packing unit	PS	EAN
Flush-mounted	5065 00	1/5	06	4010337099260

Features

Inputs

- Depending on the ETS parameterisation in the application for switches, buttons or contacts, inputs 1 and 2 either act internally on the relay output or separately on the KNX. Input 3 always acts on the KNX.
- Functions for the inputs when acting on the KNX (switching, dimming, blind, value transmitter, scene auxiliary unit, 2-channel operation, controller auxiliary unit, no function).
- Switching: Command for closing and opening of the contact adjustable (no reaction, ON, OFF, TOGGLE).
- Dimming: Dimming of brightness and/or colour temperature. Command for closing the contact, time between switching and dimming, dimming in different steps, telegram repetition in case of long signal at the input, and sending of a stop telegram at the end of the dimming process all configurable.
- Blinds: Command for closing the contact and the operating concept can be parameterised. Times for short and long signal at input and slat adjustment are adjustable.
- Value transmitter: Functionality as 1-byte, 2-byte, 3-byte or 6-byte value transmitter including colour temperature and colour value transmitter possible. Individually configurable values. Value adjustment is optionally possible with a long signal at the input (not with the 6-byte value transmitter).
- Scene auxiliary unit: Mode of operation (with or without memory function) and the scene number are adjustable.
- 2-channel operation: When the contact at the input closes, up to two telegrams can be sent out on the KNX. Operating concept adjustable (only channel 1 or channel 2/both channels). The mode of operation of the channels (1-bit, 1-byte, 2-byte, 3-byte, 6-byte) can be configured separately.
- Controller auxiliary unit: Mode of operation (operating mode switching, forced operating mode switching, presence function and target value adjustment) configurable.
- Disabling of all or individual inputs via a 1-bit object possible. Polarity of the blocking object, behaviour at the beginning and end of blocking, and behaviour during an active blocking can be adjusted.

Logic functions

- The device has 8 internal logic functions.
- Logic gate (AND, OR, exclusive AND, exclusive OR, each with up to 4 inputs).
- 1-bit to 1-byte converter with input filter, blocking object and specification of output values.
- Blocking element with filter and time functions and blocking object.
- Comparator for values with 9 different input data formats and many comparison operations.

- Limit value switch with hysteresis with upper and lower threshold values for 9 different input data formats. Including specification of the 1-bit output values.
- The logic functions have their own KNX communication objects and can process telegrams from the actuator or other bus devices.
- Switching and dimming of light bulbs, HV halogen lamps, dimmable HV-LED lamps, dimmable compact fluorescent lamps, dimmable inductive transformers with LV halogen or NV-LED lamps, dimmable electronic transformers with LV halogen or NV-LED lamps.
- Automatic or manual selection of dimming principle according to load.
- Idle-state, short-circuit, and excess temperature-proof
- Up to 8 independent logic functions for implementing simple or complex logical operations.
- Actively transmitting feedback or status messages can be delayed globally after a bus voltage recovery or ETS programming operation.

Dimming outputs

- The load type can be specified and the dimming principle defined: Universal (with automatic calibration procedure), electronic transformer (capacitive/trailing edge), conventional transformer (inductive/leading edge), LED (leading edge) or LED (trailing edge).
- Dimming characteristic configurable in time and value range for adaptation to the connected load.
- Dimmable range can be set (switch-on brightness; basic brightness; alternatively: lower dimming limit and upper dimming limit).
- Performance on receipt of an absolute brightness value can be set (dimming, brightening, fading).
- Performance during relative dimming up in switched-off state can be set (switch channel on, no reaction).
- Central control function using up to 6 switching objects, 6 dimming objects and 6 value objects and collective feedback.
- Switching feedback: Active (transmitting to the bus cyclically or when there is a change) or passive (object can be read out) feedback function.
- Brightness value feedback: Active (transmitting to the bus cyclically or when there is a change) or passive (object can be read out) feedback function.
- For active feedback objects, the type of update can be set (when the input object is changed or when the feedback value is changed). This allows visualizations to be adapted individually.
- Feedback signals for short circuit, overload/mains power failure and load type (KNX-compliant and extended).
- Reaction in case of bus voltage failure/recovery can be set following an ETS programming process.
- Logical linking function for the output.
- Block function or alternative forced setting function can be parameterised.
- Time functions (switch-on delay, switch-off delay).
- Staircase light function with advance warning function via time-controlled reduction of lighting or activation of permanent lighting.
- Staircase function with time extension or variable staircase time allocation via communication object.
- Soft ON function and Soft OFF function can be set.
- Automatic switch-off can be set where brightness value < X % (with individual delay time).
- Can be integrated in the light scenes: Up to 64 internal scenes can be parametrised.
- Delay time for scene retrieval can be configured.
- Dimming performance can be set when a new scene is called up (brightening, dimming, fading).
- Visual feedback when saving a scene.
- Extended scene retrieval.
- Elapsed operating time meter can be activated.
- Elapsed operating time meter as forward meter (with optional threshold value) or backward meter (with optional starting value).

Technical data

KNX medium:	TP256
Connections	
- KNX:	Connection terminals to control line
- Inputs:	Connection terminals to control line
- Load:	Screw terminals
Connections:	Max. 4 mm ²
Inputs	
- Number:	3
Input type:	Zero-voltage
Polling voltage	
- Auxiliary inputs:	approx. 5 V
Total length	
- Auxiliary input cable:	max. 10 m

Ambient temperature:	-5 °C to +45 °C
Rated voltage:	DC 21 to 32 V SELV
Max. connected load	
- Light bulbs:	20 to 230 W
- HV halogen lamps:	20 to 230 W
- Wound transformer:	20 to 210 VA
- Tronic transformer:	20 to 230 W
- Wound transformer with NV-LED:	20 to 100 VA
- electronic transformer with NV-LED:	typically 20 to 200 W
- HV LED lamps:	typically 1 to 200 W

Notes

- - KNX Data Secure compatible.
 - Fast application download (long frame support).
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 - The maximum connected load depends on the operating mode selected (leading edge or trailing edge). You will find more detailed information in the operating instructions.
 - Power reduction for installation in
Wood or drywall -15%
 - Multiple combinations -20%.
 - Power extension using Gira power boosters.
 - State of delivery: Operation of the dimming output possible via input 1 (brighter) and input 2 (darker).
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Scope of supply

- KNX connection and junction terminal included in the scope of supply.
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Dimensions in mm

W x H x D:	48	50	28
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