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Switching actuator, 1-gang 16 A with 3-gang binary input for Gira One and KNX



Specification	Order No.	Packing unit	PS	EAN
 Flush mounted	5061 00	1/5		4010337099284

Features

Function in the Gira One system

- Actuator for switching devices.
- 3 binary inputs for connection to conventional switches, buttons and motion detectors with zero-voltage contacts.
- The inputs are used to control Gira One actuators or to record status information.
- Connection to an external temperature sensor at input 3.
- Programming and start-up with the Gira Project Assistant (GPA), from version 5.0.
- Encrypted data transfer between the Gira One devices.

Switching functions

- NO contact or NC contact operation.
- Setting of a switch-on or switch-off delay.
- Staircase function; a pre-warning time can also be set.
- Parameterisation as a switching function for lights or socket outlets, a garage door function or a door opener function, for example, as well as a switching contact for transmitting the heating requirement to a heat pump.
- Garage door function: The time for closing the relay can be parameterised.
- Door opener function: The time for closing the relay can be parameterised.

Binary inputs

- Single and double-surface operation can be configured for rocker buttons.
- Connection of rocker buttons parameterised with switching, dimming, shading and ventilation, scene call-up, staircase (motion detector), floor call with Gira G1, garage door and door opener functions.
- Connection of movement and presence detectors with zero-voltage relay outputs.
- Convenient group control of switching, dimming, shading and ventilation devices.
- Switching contact evaluation of wind, frost, brightness or rain sensors possible with zero-voltage relay contacts, in order to protect shading and ventilation devices from environmental influences.
- Window contact query and visualisation in the Smart Home App: An opened window will result in the activation of the frost protection heating mode after a 5 minutes has elapsed.
- Door contact query and visualisation in the Smart Home App: An open door results in the raising and locking of the blind or shutter.
- Query regarding a heating/cooling switchover on a heat pump, to allow the current operating mode (heating or cooling) to be forwarded to the heating controller.
- Switching contact display to show contact status in the Smart Home app.
- Configurable switching inputs that can be independently parameterised.
- Recording and comparison of temperature values via remote sensors (see accessories) at input 3.

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Function in the Gira KNX system

- Switching electrical consumers via a relay contact.
- Device has three inputs with a common reference potential.
- Reading in switching states of installation switches or push buttons and other zero-voltage contacts at inputs 1 to 3.
- Signal analysis of dew and leakage sensors (see accessories) at inputs 1 to 3.
- Recording of temperature values via remote sensors (see accessories) at input 3.
- Up to 8 independent logic functions for implementing simple or complex logical operations.
- Actively transmitting feedback or status messages can be delayed after a bus voltage recovery or ETS programming mode.
- Bistable relay.

Switching functions

- NO contact or NC contact operation.
- Central switching function via up to 6 switch objects (ON, OFF, permanently ON, permanently OFF).
- Switching feedback: Active or passive feedback function.
- Reaction in case of bus voltage failure or bus voltage recovery can be set following an ETS programming process.
- Logical linking function.
- Block function or forced setting function can be parameterised.
- Extended blocking function with acknowledgement option.
- Time functions (switch-on and switch-off delay, staircase light function – also with advance warning function).
- Integration into the light scenes possible: Up to 64 internal scenes can be parameterised.
- Scene memory function: Additional visual feedback.
- Extended scene retrieval (toggling of scenes).
- Elapsed operating time meter can be activated.
- Input monitoring for cyclic updating of the switching object with safety position.

Technical data

Rated voltage:	DC 21 to 32 V SELV
Switching capacity:	AC 250 V, 16 AX
Maximum switch-on current:	800 A (200 µs), 165 A (20 ms)
Gira One Medium:	Twisted pair (TP),YCYM 2 x 2 x 0.8
Test voltage:	4 kV (KNX/EIB bus line)
Connections	
- Gira One Bus:	Connection terminals to control line
- Inputs:	Connection terminals to control line
- Load:	Screw terminals
Connection cross section:	Max. 4 mm²
Inputs	
- Quantity:	3
Input type:	Zero-voltage
Sampling voltage	
- Auxiliary inputs:	Approx. 5 V
Total length	
- Auxiliary input cable:	Max. 10 m
Connected load	
- Ohmic load:	2500 W
- Capacitive load:	16 A, max. 140 µF
- Motors (blind or fan):	1380 W

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- Light bulbs:	2300 W
- HV halogen lamps:	2300 W
- Fluorescent lamps, parallel-compensated:	1160 VA
- HV LED lamps:	typically 400 W
- Wound electronic transformer:	1200 VA
- Tronic transformer:	1500 W
- Fluorescent lamps, uncompensated:	1000 VA
- Fluorescent lamps,lead-lag circuit:	2300 VA
Ambient temperature:	-5 °C to +45 °C

Notes

- Can be updated via the Gira Project Assistant (GPA).
- Refer to the Gira One System Manual for information on integrating and installing zero-voltage contacts, motion detectors and presence detectors.
