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Switching actuator, 16-gang 16 A / blind actuator, 8-gang 16 A Standard for Gira One and KNX



Specification	Order No.	Packing unit	PS	EAN
 DRA	5028 00	1		4010337061076

Depending on the parameterisation, the actuator can be used as a switching actuator or a blind actuator. Mixed configurations of switching and blind actuators are also possible. For the blind actuator function, two neighbouring relay outputs are combined to form one blind output.

Features

Function in the Gira One system

- Actuator for switching devices or for controlling blinds, shutters, awnings, skylight operation.
- In blind operation, the adjacent outputs (A1/A2, A3/A4...) are combined into one blind output.
- Mixed operation at one actuator (e.g. A1 and A2 blind, A3 & A4 blind, A5 switching, A6 switching, etc.) is possible.
- Manual actuation of the outputs.
- Programming and start-up with the Gira Project Assistant (GPA), from version 5.0.
- Encrypted data transfer between the Gira One devices.

Shading and ventilation function

- Control of slat blinds, shutters, awnings, skylights or roof domes.
- Runtimes optionally adjustable.
- Sun protection function with curtain or slat positions at the beginning or end of the function that can be set for each output.
- Setting of the delay time at the beginning or end of the sunshine.
- Fabric stretching for awnings.
- In the event of an active wind alarm, e.g. with a conventional weather station with zero-voltage relay outputs for the wind alarm, the blinds raise and are automatically locked. The status of the binary input is monitored on a cyclical basis.
- In the event of an active rain alarm, e.g. with a conventional weather station with zero-voltage relay outputs for the rain alarm, the skylights or roof domes close immediately and are automatically locked. The status of the binary input is monitored on a cyclical basis.
- In the event of an active frost alarm, e.g. with a conventional weather station with zero-voltage relay outputs for the frost alarm, active travel by shutters is stopped and locked to protect the shutter motor. The status of the binary input is monitored on a cyclical basis.
- Door contact query and visualisation in the Smart Home App: An open door results in the raising and locking of the blind or shutter.

Switching functions

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- 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.
- Garage door function: The time for closing the relay can be parameterised.
- Door opener function: The time for closing the relay can be parameterised.

Function in the Gira KNX system

- Blind or switching operation can be parametrised. In blind operation, the adjacent outputs (A1/A2, A3/A4...) are combined into one blind output. Mixed operation at one actuator (e.g. A1 & A2 blind, A3 & A4 blind, A5 switching, A6 switching ...) is possible.
- Actively transmitting feedback or status messages can be delayed globally after a bus voltage recovery or ETS programming operation.
- Manual operation of the outputs independently of KNX with intelligent LED status displays for saving energy.
- Advanced manual actuation: Toggle between blind mode and switching mode before starting up the ETS.
- Heartbeat function for monitoring the device, cyclical transmission 1 bit.
- Bistable relay.
- Supply from KNX bus, no additional power supply required.
- Simplified terminal connection (no terminal overlapping).

Blind functions

- Operating mode can be parametrised: Control of slat blinds, roller shutters, awnings, skylights or ventilation flaps.
- Separately parameterisable curtain runtimes with runtime extension for movements into the upper end position.
- For slat blinds, a slat runtime can be parametrised independently.
- Switchover time for change of direction and times for short and long-term operation (Step, Move) can be set.
- Feedback on the curtain or slat position. In addition, feedback on an invalid curtain position or a drive movement is possible.
- Assignments of up to 5 different safety functions (3 wind alarms, 1 rain alarm, 1 frost alarm), or with cyclical monitoring. The safety functions (objects, cycle times, priority) are created in a device-based manner for all outputs. An assignment of individual outputs to the safety functions and the safety reactions can be parametrised based on the channel.
- Blocking function can be implemented for each blind output.
- Simple sun protection: Sun protection function with fixed and variable curtain or slat positions at the beginning or end of the function can be activated separately for each output.
- Up to 16 internal scenes can be parametrised per output.
- Scene memory function: Additional visual feedback.
- Twilight function.
- Status messages for upper and lower end positions.

Switching functions

- Independent switching of the switching outputs.
- NO contact or NC contact operation.
- Switching feedback: transmitting to the bus cyclically or when there is a change.
- Logical individual linking function for each output.
- Reaction upon bus voltage recovery can be set for each output (ON or no reaction).
- Blocking function with feedback object can be parametrised for each channel.
- Time functions (switch-on and switch-off delay, staircase light function – also with advance warning function).
- Integration into light scenes possible: Up to 16 internal scenes can be parametrised per output.

Technical data

Gira One Medium:	Twisted pair YCYM 2 x 2 x 0.8
KNX medium:	TP256
Test voltage:	4 kV (KNX/EIB bus line)
Rated voltage - KNX:	DC 21 to 32 V SELV
Switching capacity:	AC 250 V, 16 A / AC1
Maximum switch-on current:	800 A (200 µs), 165 A (20 ms)

Illustrations are similar and may deviate from originals.

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Current carrying capacity of adjacent outputs:	Total 20 A
Connected load	
- Ohmic load:	3000 W
- Capacitive load:	16 A, max. 140 µF
- Motors (blind or fan):	1380 W
- Light bulbs:	2300 W
- HV halogen lamps:	2500 W
- 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
- Fluorescent lamps, parallel-compensated:	1160 VA
- Mercury-vapour lamps, uncompensated:	1000 W
- Mercury-vapour lamps, parallel-compensated:	1160 W
Connections	
- Gira One Bus:	Connection and junction terminal
- KNX:	Connection and junction terminal
- Load:	Screw terminals (max. 4 mm² or 2 x 2.5 mm²)
Current consumption	
- Gira One Bus:	5 to 25 mA

Notes

- KNX Data Secure compatible.
- Fast application download (long frame support).
- Firmware can be updated using the Gira ETS Service App (additional software).
- Installation on DIN top-hat rail.

Scope of supply

- KNX connection and junction terminal included with delivery.

Dimensions

Modular width (MW):	8