

Gira One / Gira KNX: Switching/blind actuators (DRA)

Switching actuator, 24-gang 16 A / blind actuator, 12-gang 16 A Standard for Gira One and KNX



Specification	Order No.	Packing unit	PS	EAN
 DRA plus	5030 00	1	66	4010337060987

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

- 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 commissioning using the Gira Project Assistant (GPA), from Version 5.0 (available from 03/2023).
- Encrypted data transfer between the Gira One devices.

Shading and ventilation function

- Control of slat blinds, shutters, awnings, skylights or roof domes.
- Movement times 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, the active movements of shutters are 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

- 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 One system

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- 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 independent 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 movement times with movement time extension for movements into the upper end position.
- For slat blinds, a slat movement time 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).
- Can be integrated in the light scenes: Up to 16 internal scenes can be parametrised per output.

Technical data

Gira One Medium:	Twisted pair YCYM 2 x 2 x 0.8
Test voltage:	4 kV (KNX/EIB bus line)
Rated voltage:	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)
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 transformer:	1200 VA
- Tronic transformer:	1500 W
- Fluorescent lamps, uncompensated:	1000 VA
- fluorescent lamps,	2300 VA
Duo-circuit:	
- 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
- Load:	Screw terminals (max. 4 mm ² or 2 x 2.5 mm ²)
Current consumption	
- Gira One Bus:	4 to 24 mA
KNX medium:	TP256
Rated voltage	
- KNX:	DC 21 to 32 V SELV

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- Fluorescent lamps, parallel-compensated:	1160 VA
- Mercury-vapour lamps, uncompensated:	1000 W
- Mercury-vapour lamps, parallel-compensated:	1160 W
Connections	
- KNX:	Connection and junction terminal
- Load:	Screw terminals (max. 4 mm ² or 2 x 2.5 mm ²)
Current consumption	
- Gira One Bus:	4 to 18 mA

Notes

- Installation on DIN top-hat rail.
- Can be updated via the Gira Project Assistant (GPA)
- 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

- Connection and junction terminal included in the scope of supply.

Dimensions

Modular widths (MW):	12
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