

The roller shutter allows you to control a roller shutter drive.



1. Parameters - ROLLER_SHUTTER

| Characteristics: | |
|-----------------------|---|
| MechanicalOffset | The time of compensation for start of the drive |
| BlindsUpMaxTime | The time in milliseconds it takes to fully open the blind |
| BlindsDownMaxTime | The time in milliseconds it takes to fully close the blind |
| State | Output state: 0 - no movement, 1 - moving upwards, 2 - moving downwards, 3 - blocked, 4 - calibration |
| Up | State of UP relay (moving upwards) |
| Down | State of DOWN relay (moving downwards) |
| LoadCurrent | Load current value |
| Overcurrent | Load current value, when exceeded, the OnOvercurrent event is generated |
| VoltageType | Rodzaj napięcia obciążenia: 0 - AC, 1 - DC |
| Position | Percentage value of the shutter opening: 0% - fully closed, 100% - fully open |
| LamelPosition | Roller shutter lamel position: 90 - fully closed, 0 - fully open |
| MaxTime | The time in milliseconds it takes to fully open / close the blind |
| LamelMoveTimeout | The maximum working time of the shutter's slats, if the shutter does not have slats, should be set to 0 |
| DistributedLogicGroup | Distributed Logic group - broadcast group for distributed logic |
| ReversePosition | The function for inverting position range (0-100% for 100-0%) 0 - No, 1 - Yes |
| ReverseDirections | The function of reversing the direction of the roller shutter operation |
| Methods: | |
| SetMechanicalOffset | Sets the time of compensation for start of the drive |
| SetBlindsUpMaxTime | Sets the shutter opening time |
| SetBlindsDownMaxTime | Sets the shutter closing time |
| SetPosition | Shutter opening percentage setting: 0% - fully open, 100% - fully closed |
| SetLamelPosition | Sets the position of the slats |
| Calibration | Calibrates the shutter position |
| SetLamelMoveTimeout | Sets the cycle time of the slats |
| MoveUp | Roller shutter UP or STOP if moving. Parameter Time: num - move up time (or until roller shutter is open), 0 - move up time equal BlindsUpMaxTime + LamelMoveTimeout (or until roller shutter is open) |
| MoveDown | Roller shutter DOWN or STOP if moving. Parameter Time: num - move down time (or until roller shutter is closed), 0 - move down time equal BlindsDownMaxTime + LamelMoveTimeout (or until roller shutter is closed) |
| Start | Roller shutter up if the preceding motion was down or roller shutter down if the preceding motion was up. Parameter Time: num - move time (or until roller shutter is at the end position), 0 - move time equal BlindsUpMaxTime/BlindsDownMaxTime + LamelMoveTimeout (or until roller shutter is at the end position) |
| Stop | STOP if moving |
| Hold | Hold with direction change |
| HoldUp | Hold always up |
| HoldDown | Hold always down |
| SetRollerBlocked | Enables / disables the ability to control the roller shutter |
| LamelStart | Changes the position of the slats by 45° |
| Events: | |
| OnStateChange | Result from a change in the State properties |
| OnUp | Occurs when changing the Stop state to the Up state |
| OnDown | Occurs when changing the Stop state to the Down state |
| OnStart | Occurs when the shutter is activated |
| OnStop | Occurs when the shutter is stopped |
| OnOvercurrent | Occurs when the load current exceeds the Overcurrent value |
| OnLamelClosed | Occurs when the slats are closed (value 90°) |
| OnLamelOpen | Occurs when the slats are opened (value 0°) |
| OnPositionChange | Occurs when the roller shutter position has changed |
| OnLamelPositionChange | Occurs when the position of the slats has changed |

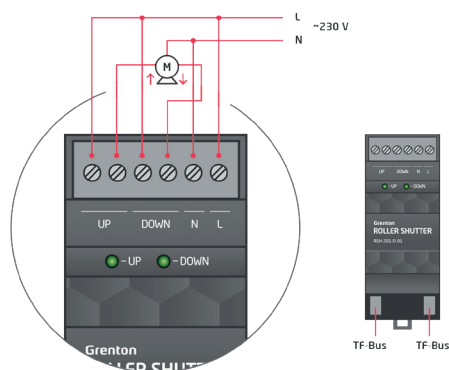
2. Parameters - PowerSupplyVoltage

| Characteristics: | |
|------------------|--|
| Value | Current power supply voltage value |
| Value% | Current power supply voltage value as a percentage of the maximum value (MaxValue property) |
| Sensitivity | Minimum value change of the power supply voltage that generates OnValueChange, OnValueLower or OnValueRise events |
| MinValue | Minimum value of the Value characteristic after exceeding which the OnOutOfRange event is generated |
| MaxValue | Maximum value of the Value characteristic after exceeding which the OnOutOfRange event is generated |
| Methods: | |
| SetSensitivity | Sets input sensitivity value |
| SetMinValue | Sets MinValue |
| SetMaxValue | Sets MaxValue |
| Events: | |
| OnValueChange | Event occurs when the value of the power supply voltage changes |
| OnValueLower | Event occurs when a value of the power supply voltage lower than the value from the last reading appears at input |
| OnValueRise | Event occurs when a value of the power supply voltage higher than the value from the last reading appears at input |
| OnOutOfRange | Event resulting from exceeding the permissible range (MinValue - MaxValue) |
| OnInRange | Event occurs when value returns to MinValue - MaxValue range |

3. Technical data

| | |
|-------------------------------|--|
| Device power supply | 24 V _{dc} |
| Maximal power consumption | 1,2 W |
| Maximal device current | 50 mA (for 24 V _{dc}) |
| Rated load voltage | 230 V _{ac} or 24 V _{dc} |
| Rated load current: | |
| AC1 | 16 A / 230 V _{ac} |
| AC15 | 1,5 A / 230 V _{ac} |
| DC1 | 16 A / 24 V _{dc} |
| DC13 | 0,22 A |
| Minimal breaking capacity | 1 W |
| Maximal breaking capacity AC1 | 3600 VA |
| Relay type | NO inrush |
| Max. wire cross section | 2,5 mm ² |
| Weight | 165 g |
| Size [DIN] | 2 |
| Fixing | electrical box, rail DIN-3 / TH 35 / TS 35 |
| Dimensions (H/W/D) | 58/36/90 mm |
| Operating temperature range | 0 to +45 °C |

4. Wiring diagram



| | |
|---------|-------------------------|
| UP | UP signals connectors |
| DOWN | DOWN signals connectors |
| N | 'Neutral' signal input |
| L | 'Line' signal input |
| UP,DOWN | LED output status |

- 'N' and 'L' signals are necessary for 230 V_{ac} loads for switch
- For loads up to 24 V_{dc} 'N' and 'L' are not required. condition optimization.

5. Warnings and cautionary statements



ATTENTION!

- Before proceeding with the assembly, read the installation schematics and full instructions available at www.grenton.com. Failure to follow the guidelines contained in the instructions and other requirements of due care valid as a result of the nature of the equipment (device) may be dangerous to life / health, damage the device or installation to which it is connected, damage other property or violate other applicable

regulations. The manufacturer of the device, Grenton Sp. z o.o. does not bear any responsibility for the damage (property and non-property related) resulting from the assembly and / or use of the equipment not in accordance with the instructions and / or due diligence in handling the equipment (device).

- Device power supply, permissible load or other characteristic parameters have to be in accordance with the device specification, described in particular in the "Technical data" section.
- The product is not intended for children and animals.
- If you have technical questions or comments about the device operation, contact Grenton Technical Support.
- Answers to frequently asked questions can be found at: www.support.grenton.pl



DANGER!

- Danger to life caused by electric current!
- The components of the installation (individual devices) are designed to work in a home electrical installation or directly in its

vicinity. Incorrect connection or use may cause a fire or electric shock.

- All work related to the installation of the device, in particular works involving interference in the electrical installation, may be performed only by a person with appropriate qualifications or licenses.
- When installing the device, make sure that the power supply voltage is disconnected from the circuit in which the device is connected or near which the assembly takes place.

6. CE marking

The manufacturer declares that the device is in full compliance with the requirements of EU legislation that includes the directives of a new approach appropriate for this equipment. In particular, Grenton Sp. z o.o. declares that the device fulfills the requirements on safety, specified by law, and that it conforms to

the national regulations that implement the appropriate directives: The Directive on the electromagnetic compatibility (EMC - 2014/30/UE) and the Directive on the limitation of the use of specific substances in electrical and electronic equipment (RoHS II - 2011/65/UE).



7. Warranty

Warranty available at: www.grenton.com/warranty

8. Manufacturer contact details

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