

Datasheet Roller Shutter

RSH-201-D-01

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

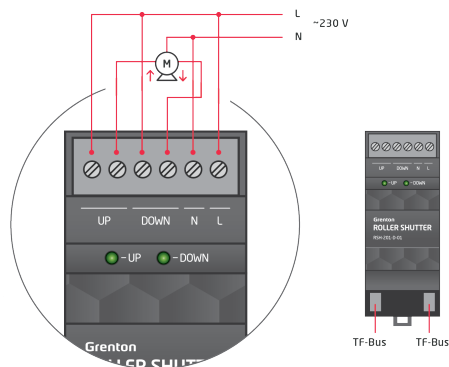
2. Parameters - PowerSupplyVoltage

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)	59/36/90 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 condition optimization.
- For loads up to 24 V_{dc} 'N' and 'L' are not required.

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.

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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