Datasheet Roller Shutter x3
RSH-203-D-01

The Roller Shutter allows you to control three independent 230V$_{ac}$ roller shutter drives.

1. Parameters - ROLLER_SHUTTER

Characteristics:	
State	Output state: 0 - no movement, 1 - moving upwards, 2 - moving downwards, 3 - blocked
Up	State of UP relay (moving upwards)
Down	State of DOWN relay (moving downwards)
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
Methods:	
SetPosition	Shutter opening percentage setting: 0% - fully closed, 100% - fully open
SetLamelPosition	Sets the position of the slats
Calibration	Calibrates the shutter position
SetMaxTime	Sets the cycle time of the shutter
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 MaxTime + 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 MaxTime + 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 MaxTime + 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
OnLamelClosed	Occurs when the slats are closed (value 90°)
OnLamelOpen	Occurs when the slats are opened (value 0°)

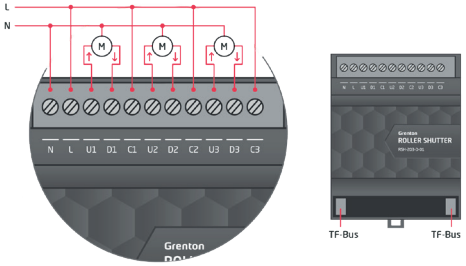
2. Parameters - PowerSupplyVoltage

Characteristics:	
Value	Current output value taking into account the scalar
Value%	Current percentage input value of the maximum value (MaxValue characteristic)
Sensitivity	Minimum change ofinput state when the OnValueChange, OnValueLower or OnValueRise event is generated
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 resulting from changing input state
OnValueLower	Event occurs when a value lower than the value from the last reading appears at input
OnValueRise	Event occurs when a value 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	2,4 W
Maximal device current	100 mA (for 24 V$_{dc}$)
Rated load voltage	230 V$_{ac}$
Rated load current:	
AC3	3 A / 230 V$_{ac}$
Maximal channel breaking capacity AC3	690 VA
Channels	3
Relay type	3680VA, NO, inrush 117 A
Max. wire cross section	2,5 mm^2
Weight	102 g
Size [DIN]	4
Fixing	electrical box, rail DIN-3 / TH 35 / TS 35
Dimensions (H/W/D)	58/71/90 mm
Operating temperature range	0 to +45 °C

4. Wiring diagram



N	'Neutral' signal input
L	'Line' signal input
U1	UP1 signal input
D1	DOWN1 signal input
C1	'Line' signal input for channel 1
U2	UP2 signal input
D2	DOWN2 signal input
C2	'Line' signal input for channel 2
U3	UP3 signal input
D3	DOWN3 signal input
C3	'Line' signal input for channel 3

- 'N' i 'L' signals are necessary.

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 licences.
- 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), the Low Voltage Directive (LVD 2014/35/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

Grenton Sp. z o.o.
ul. Na Wierzchowinach 3
30-222 Kraków, Polska (PL)
www.grenton.com

AUTHORIZED DISTRIBUTOR: emiternet PORCELANOWA 27 40-241 KATOWICE, PL +48 32 730 34 00 emiter@emiter.net.pl **emiter.net.pl**