Datasheet DIGITAL IN INP-209-D-01

Grenton Digital IN module allows you to connect any device with contact output, like: simple switch, motion sensor, smoke sensor, water sensor and device with 230 $\rm V_{\rm aC}$ output.



1. Parameters - DIN

Characteristics:	
Inertion	Inertion
HoldDelay	Time in milliseconds after which, when pressing and holding a button, the OnHold event oc curs
HoldInterval	Cyclical interval in milliseconds after which, when pressing and holding a button, the OnHoli event occurs
Value	Returns input state as 0 or 1
StatisticState	Load measurement type: Off - turned off, Continuous - load measurement for the whole de vice's period operation, Pulse - load measurement counted at the moment of a high stati appearing on the input
Load	The measured value multiplier. For StatisticState: Continuous - load measurement value i the unit of time Pulse - load measurement value for the single impulse (e.g. 1kW)
DistributedLogicGroup	Distributed Logic group - broadcast group for distributed logic
Methods:	
SetInertion	Minimum interval in milliseconds which has to pass between presses of a button so that it i interpreted as a new pressing activity
SetHoldDelay	Sets HoldDelay value
SetHoldInterval	Sets HoldInterval value
Events:	
OnValueChange	Occurs when a change in the input state takes place (regardless of the value)
OnSwitchOn	Occurs when the high state is set at input
OnSwitchOff	Occurs when the low state is set at input
OnShortPress	Occurs after pressing the button for 500 - 2000ms
OnLongPress	Occurs after pressing the button for at least 2000ms
OnHold	Occurs for the first time after HoldDelay time and then cyclically every HoldInterval value
OnClick	Occurs after pressing the button for less than 500 ms

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 of input 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}
Maximum power consumption	0,15 W
Maximum device current	6 mA (@24 V _{dc})
Maximum wire cross section for 230 Vac inputs	2,5 mm ²
Maximum wire cross section for binary inputs	1,5 mm ²
Maximum voltage between SW input and "N" terminal	277 V _{ac}
Maximum voltage between any two SW inputs	400 V _{ac}
Weight	100 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 ℃

4. Wiring diagram



IN1-3	historian to 1.3.3
II/T-2	binary inputs 1,2,3
G	GND for IN1-3
IN4-6	binary inputs 4,5,6
G	GND for IN4-6
SW1	first 230 V _{ac} input
SW2	second 230 Vac input
SW3	third 230 Vac input
N	neutral terminal for 230 V _{ac} inputs

5. Warnings and cautionary statements



Before proceeding with the assembly, read the installation schematics and full instructions available at www.genton.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 to life caused by electric currentl
 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. 2 o. o. declares that the device fulfills the requirements on safety, specified by law, and that it conforms to



7. Warranty

Warranty available at: www.grenton.com/warranty

8. Manufacturer contact details

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