

Intro

The JGA2008 is a universal pump unit with one digital input and one relay output.



Liability and warranty

Every JGA2008 is checked before sending for correct operation.
Therefore Boutronic has a warranty period of 1 year.

The warranty expires if:

- The defect is caused by gross negligence or by improper installation
- Repairs and/or modifications to the JGA2008 without permission from Boutronic.

Boutronic is in no way liable for damage caused as a direct or indirect consequence by the use of the JGA2008.



For more information see: <http://www.boutronic.nl/producten>

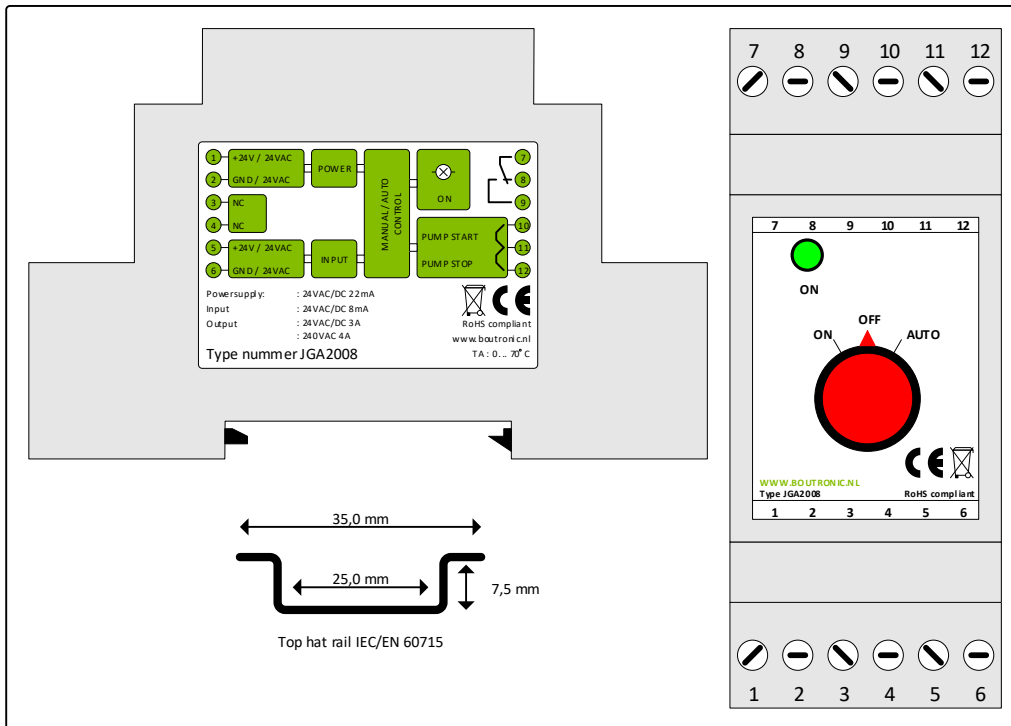
Manual PompUnit JGA2008
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Connections

In the figure below, the JGA2008 is shown schematically:



Power supply input

The power supply for the JGA2003 is 20 ... 30VDC or 20 ... 24 VAC, internally single-sided rectified.

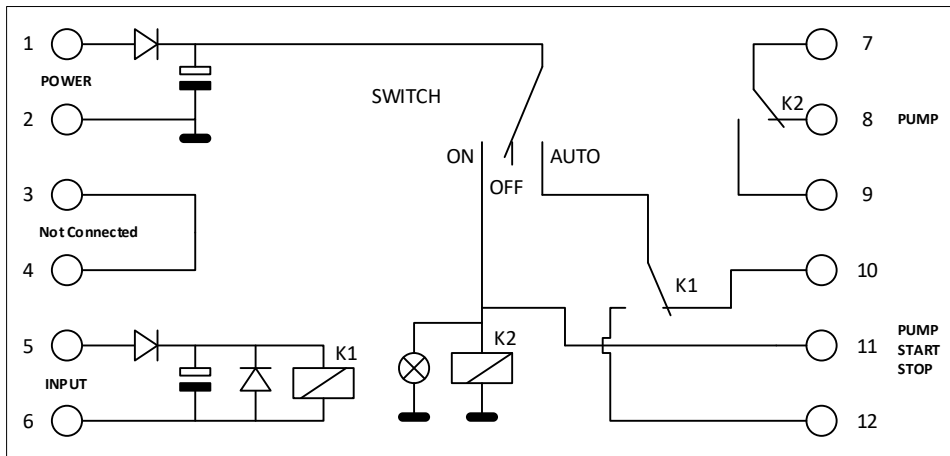
Input

The input is galvanically isolated and has 2 connections. This input can work with a COMMON and plus or a COMMON and a negative. The input can be driven with 15 to 24 VAC or 15 to 30 VDC. To drive the input a minimal current of 8 mA is needed.

When the input is driven with a triac, it can be that the current is too low for proper working. Then use an extra relay.

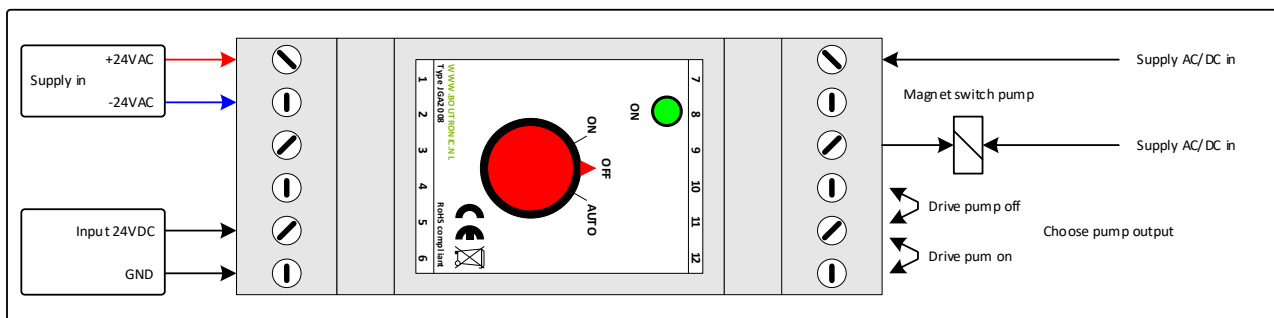
Schematic

In the figure below the internal schematics are shown simplified. The power input is used for switching the relay with contact K2. The input can be a different voltage than the power input. For example: in this way the power supply can be 24 VDC and the input 24 VAC.

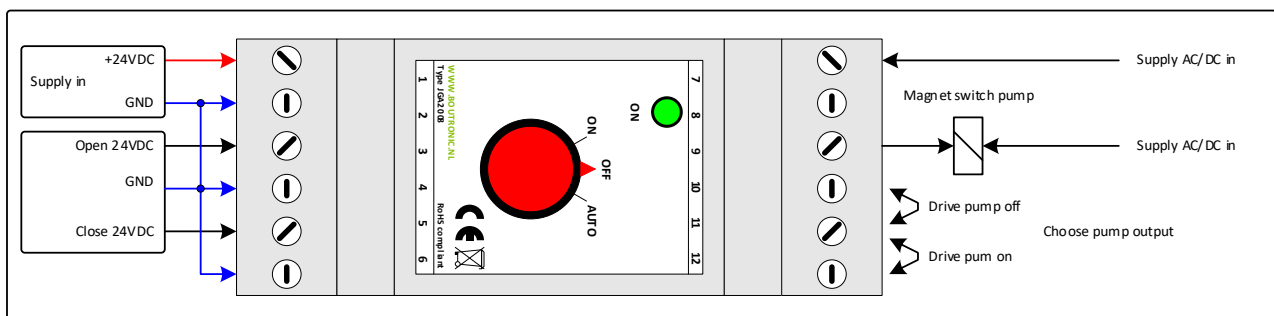


Connecting examples

The figure below shows an example on how to drive a magnet switch. The power supply and the input have a different voltage.



In the figure below shows an example on how to drive a magnet switch. The power supply and input have the same voltage.

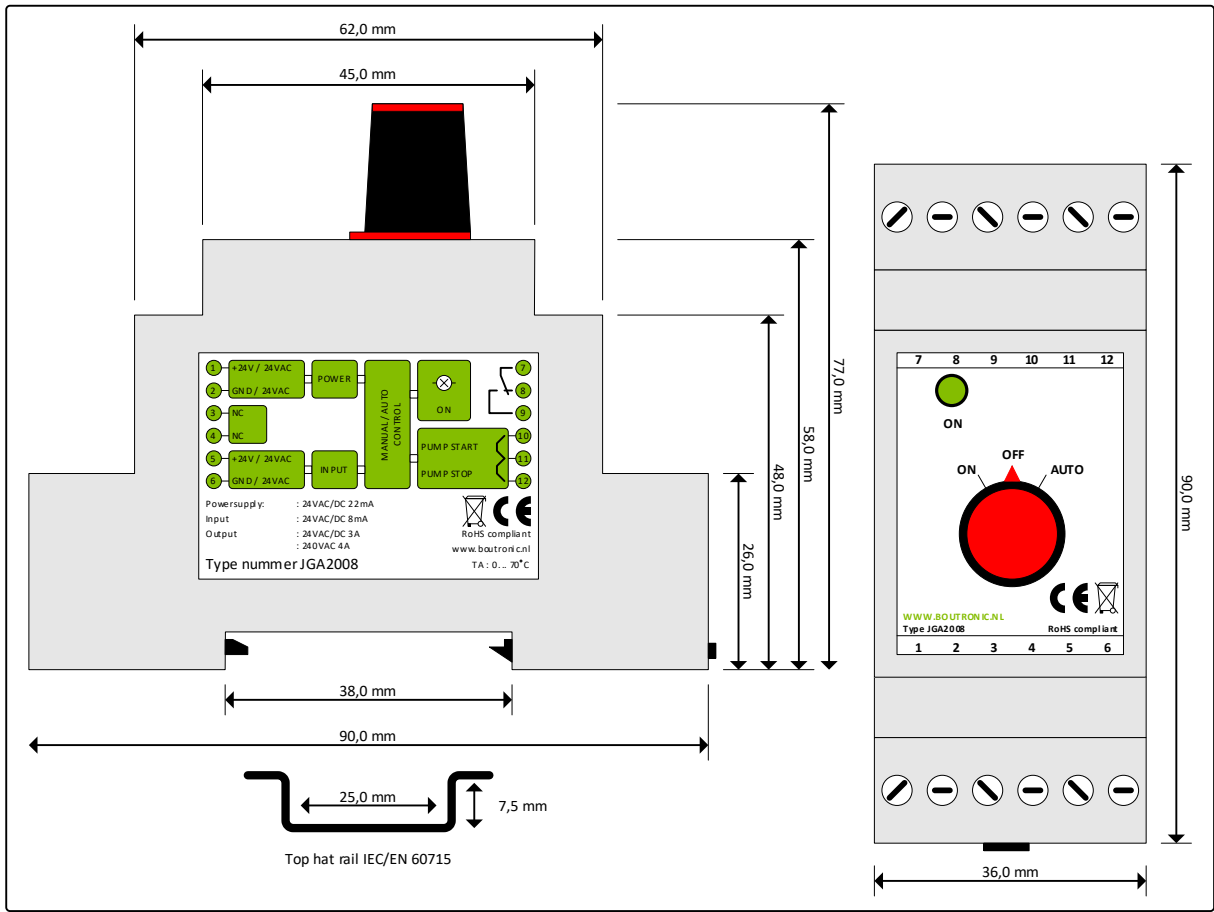


CE marking

The JGA2008 PumpUnit is designed according the following directives for EMC/EMI and meets these requirements. No official EMC test has been performed by a notified body to confirm this.

Description	Directives
The EMC Directive	2014/30/EU
The RoHS-II Directive	2011/65/EU
NEN-EN-IEC 61000-6-1:2019	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards. Immunity for residential, commercial and light-industrial environments

Measurements



Technical specifications

General

Part	Value	Unit	Remarks
Measurements	90 x 36 x 58	mm	L x B x H
Mounting	DIN-rail (Top hat rail)		IEC/EN 60715
Material	Plastic ABS		
Weight	80	gram	
Temperature storage	-30 ... +85	°C	
Temperature operational	-20 ... +70	°C	

Power supply

	Min	Typ.	Max	Unit	Remarks
Power supply in	20	24	30	VDC	
	20	24	24	VAC	
	-	35	-	mA	

Inputs Open / Close

	Min	Typ.	Max	Unit	Remarks
Separation	-	-	3750	Vrms	Galvanically
Input voltage	20	-	30	VDC	
	20	-	24	VAC	
Input current	8	-	10	mA	

Outputs

Part	Min	Typ.	Max	Unit	Remarks
Separation			3750	Vrms	Galvanically
Relay contacts	1	-	4000	mA	
	1	-	230	VACDC	