

Data sheet:

rule.box Digital 2xIn, 2xOut



Article no.: 57920

EUR 598.00

*Net price for commercial users

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Monitor and control using Node-RED

Realize automation tasks with the pre-installed graphical development tool Node-RED. Determine the data flow between input, output and processing nodes by dragging connections in the browser-based editor. The digital in- and output signals on the rule.box are available for processing in Node-RED and make it simple to link sensors and actuators. Pre-installed nodes let you read and control Web-I/Os, Web Thermometers and Com-Servers from Wiesemann & Theis. The wide range of available pre-installed nodes enables both expansion of the processing functions and linking devices from other manufacturers. The rule.box processes the flows reliably and using little power. Integration of non-public nodes is also possible on request.

Properties

Interfaces:

- **1 x network**
- **2 x switching inputs:**
 - digital 24V inputs
 - 32-bit pulse counter
- **2 x switching outputs:**
 - digital 24V outputs
 - current driving up to 500 mA

Management:

- **Configuration**
 - Startup using WuTility (three clicks and you're done)
 - Web-based management
- **Application**
 - Create automation flows using Node-RED
 - Display on Node-RED dashboard
 - Data storage via file system, MariaDB and SQLite

Power supply:

- **External power**
 - Screw terminal
- **Power over Ethernet (PoE)**
 - Phantom power using data pairs
 - Power over unused wire pairs
- **Buffer capacitors**
 - controlled shutdown when disconnecting from the power supply

Standards & more

- **Conforms to standards both in office and industrial environments:**
 - High noise resistance per EN 61000-6-2
 - Low noise emission per EN 55032:2015 + A1 Cl. B, EN 61000-3-2 & EN 61000-3-3
- **5 year guarantee**

♥ Wish for something!
[Your suggestions for improvement and additions](#)

Technical data

Connections and displays:

Network:	1 x 100/1000BaseT Autosensing/Auto-MDIX, RJ45
Digital outputs:	2 x Digital Out 6V-30V, 500mA Max. total current 1A Short-circuit-protected
Digital inputs:	2 x Digital In, max. input voltage +/-30V protected against reverse connection within this range Switching threshold 8V +/- 1.5V "On" current = 2.2 mA integrated 32-bit counter
Supply voltage:	Power over Ethernet (PoE) or 24 ... 48V DC (+/-10%) per screw terminal
Supply connection:	Plug-in screw terminal
Current consumption:	PoE Class 2 (3.84 ... 6.49W) and typ. 140mA @ 24V DC with external supply
Indicators:	LEDs for System, Error, Network Status and IO states

Hard- and software

Processor and memory:	Marvell 88F6820 Flash: 4GB (eMMC) RAM: 1 GB (DDR3)
Installed software:	Node-RED: v1.3.5 MariaDB: v10.2.29 SQLite: v3.29.0

Housing and other data:

Enclosure:	Plastic housing with integrated DIN rail mount 105 x 22 x 75mm (L x W x H)
Weight:	approx. 120g
Storage temperature:	-40 ... +70°C
Operating temperature:	0 ... 60°C
Permissible relative humidity:	0 ... 95% relative humidity, non-condensing
Scope of delivery:	rule.box Digital 2xIn, 2xOut Quick start manual

Accessories

*Net unit price for commercial users


Power supplies

Plug-in power supply, 24V / 500mA DC with Euro plug	11021	21.00€	
Power supply for DIN rail, 24V / 630mA DC (merchandise, 2-year manufacturer's guarantee)	11080	33.00€	

Coupling relay for up to 230V

230V coupling relay - 1 x changeover for DIN rail mount	57015	22.00€	
230V coupling relay - 2 x changeover for DIN rail mount	57016	22.00€	

Mechanical Accessories

Mounting bracket for wall mounting	58812	11.20€	
19" DIN rail	58813	21.00€	

Software

WuTility	00104	free	
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* Our offering is intended only for commercial users. We will be happy to refer private end customers to trading partners through whom our products can be purchased.

We are available to you in person:

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