



**VDL RENA ELECTRONICA**

**90519040**

Bits2Power® DRIVER RELAY CONTACT 0.10V

#### Product description

- 1 Channel 0..10V Driver
- 1 Relay output
- Thermal protection
- 3 Year Warranty
- CE certified
- IP67

#### Applied Standards

EN55022

EN55024



#### Technical notes

Dimensions	156x38x25mm
Weight	220 gr.
Housing	Polycarbonate
Color	White (RAL9003)

#### Ordering data

Type	Article number
Standard	90519040

#### Electrical Characteristics

Input voltage range ①	24 ... 48Vdc
10V Output voltage range	0 ... 10Vdc
10V Output current max	100mA
Relay voltage max	250Vac
Relay Current max	4,2A (cosφ 0,4 ... 1)
Max inrush current	30A, max 4s, duty cycle 10%

#### Protections

Undervoltage lockout	@ Vin < 20Vdc
10V circuit protection	Output current limited

#### Connections

Input voltage	Positive	Orange	AWG20, 250mm
	Negative	Black	AWG20, 250mm
0 ... 10V	Positive	Green	AWG20, 250mm
	Negative	Black	AWG20, 250mm
Relay	P contact	Brown	AWG20, 250mm
	NO contact	Brown	AWG20, 250mm

#### Technical details

0...10V Output	DC voltage Range	0... 10 V
	Maximum current	100 mA
	Maximum Power	1 W
Relay Output	AC voltage (max.)	250 Vac
	AC current (max.)	4,2 A
	Cosφ	0,4 ... 1,0
Input	DC voltage Range	24 ... 48 V
	Standby Power	1 mW
Protection	Short Circuit	Recovers automatically after removing short
	Over Current	Input protected by unrecoverable fuse
	Over Voltage	Input protected by TVS diode
	Over Temperature	70°C (Output derating)
Safety & EMC	Withstand Voltage	I/P-O/P: 0,5kV
	Isolation Resistance	I/P-FG: >100MΩ / 500VDC/ 25°C/ 70%RH
	EMI	EN55022 (CISPR22)
	EMS IMMUNITY	EN61000-4-2, 3, 4, 5, 6, 11

① Tolerance of 5%

② Nominal output voltage is # of LEDS x LED forward voltage

③ Tolerances of 5% and for each circuit

④ Percentage of output voltage

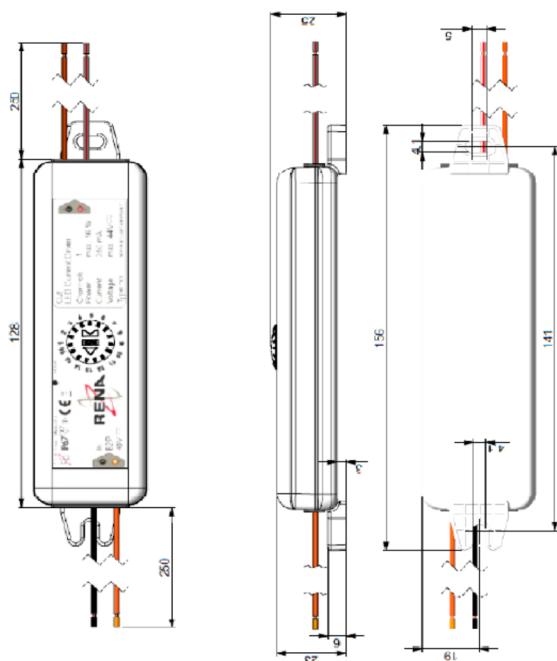
⑤ To be determined



## Mechanical Dimensions

Overall dimensions

L = 156 x W = 38 mm  
Height = 25 mm



## Thermal Characteristics

The LED driver must operate under proper environmental conditions and the operating ambient air temperature must NOT exceed the maximum given temperature.

For an optimal lifetime performance the LED driver must be placed in an environment where a sufficient heat transport is guaranteed.

The heat transport is done by natural convection. It's not recommended to expose the module to direct sunlight or any other heat source.

## Environmental characteristics

Storage temperature	-20 – +70°C
Operating temperature	-20 – +50°C
Operating humidity	10-95% RH
IP classification	IP67

## Tc point

For an optimal lifetime performance the Tc point of the device must never exceed [ ⑤ ] degrees Celsius.

The maximum value must be determined under operating conditions in a thermally stable state and under worst-case conditions for the current application

## Installation and Safety Information

Installation must be carried out under observation of the relevant regulations and standards. The following advice must be followed:

- See PDC600 controller manual for system installation details.
- The device contains components that are sensitive to electrostatic discharge and may only be installed in the factory and on site if appropriate EOS/ESD protection measures have been taken.
- Use wire size of minimum AWG 20 for connecting the B2P device.
- Please ensure the correct polarity of the leads.
- For outdoor or damp locations, be aware of the IP classification.

All above specifications must be met in order to qualify for the 3 year warranty.

## Packaging

Box size (mm)	288x207x66 mm
Quantity each Box	12
Quantity each layer	12
Layer each box	1
Weight each box (kg)	2,1 kg