# DIN rail stabilized power supply unit

INPUT VOLTAGE	OUTPUT VOLTAGE
□ 230 V AC +20% / -15%	□ 24 V DC max. 130mA □ 12 VDC max. 130mA
DESCRIPTION	
DIN rail stabilized power supply <b>ZPN2</b> is designed for sensors, converters, relays, etc power supply.	
Stabilized power supply <b>ZPN2</b> is built into a plastic box (in <b>53mm width</b> module) for DIN rail mounting.	
<ul> <li><u>Stabilized power supply ZPN2</u>:</li> <li>has a protection against permanent output short circuit</li> <li>is in SELV category</li> <li>has dual isolation</li> </ul>	
Stabilized power supply ZPN2 converts alternating         voltage 230 VAC to :         stabilized 24V DC @ max. 130mA         stabilized 12V DC @ max. 130mA	
Power supply uses linear regulation on secondary side of transformer. It isn't switching power supply.	

#### Notice:

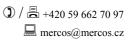
- Safety requirements for electrical devices :
- due ČSN EN 61010-1 + A2
- safety class II

### □ output power 3,1 W

### **TECHNICKÉ DATA**

Input voltage	230 V AC +20% / -15% , 50Hz
Primary protection	T 50 mA FUSE
Secondary protection	Electronic protection against continous output short circuit
Output power	3,1 Watt
Output voltage	24 V DC (+/- 5%) @ max. 130mA 12 V DC (+/- 5%) @ max. 130mA
Output voltage ripple	Max. 20 mV @ max. consumption 130 mA
Dimensions	53 x 90 x 58 mm (w x h x d)
Mounting	DIN rail mounting
Enclosure	IP 20
Wiring connection	Terminal strip – max. conductor cross-section 2,5 mm
Weight	250 g
Operation	CONTINOUS RUN Installation must contains some power-off switch or building distribution circuit-breaker (e.g. power-off switch in switchboard or main distribution circuit-breaker)
Operating temp.	0 to +50 °C from 40°C to 50°C is necessary to reduce output power @ 2% per °C
Operating humudity	10% to 80% RH – w/out condesation

**ZNU2** 



### **ORDERING CODE**

### **TERMINAL STRIP**



2 - 24 VDC (+/- 5%) @ max 130 Output mΑ <u>a</u> 2-12 - 12 VDC (+/- 5%) @ max voltage 130 mA

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## 4 3 + LED ZPN2 Ν 1 2

# **ORDER EXAMPLE**

ZPN 2 – 12 - Stabilized power supply ZPN2 with output voltage 12V

### LEGEND

#### strip 1,2 $\Box$ strip 3, 4

input voltage 230 VAC, 50 Hz output voltage 24 VDC, max 130 mA or 12 VDC, max 130 mA

### **1. SETTING IN OPERATION**

Device doesn't require any before running procedures and is ready to use after unpacking. Make sure that proper supply voltage is set and all input and outputs are connected correctly before connection to supply system. Stabilized power supply ZPN2 (power supply) has to be connected into electrical circuit that is in compliance with ČSN 332000.

### 2. INSTALLATION AND MAINTAINANCE INSTRUCTIONS

Power supply is designed to supply electronic devices and is protected against output short circuit. Power supply may not be expose to direct impact of water and radiant-heat sources. Mounting position has no impact to device safety, however to extend lifetime of power supply is recommended to mount it on a horizontal DIN rail.

### NOTICE:

Instrument is continuos run device and doesn't have own power-off switch. Installation must contains some poweroff switch or building distribution circuit-breaker (e.g. power-off switch in switchboard or main distribution circuitbreaker). It has to be easy accessible by operating staff and has to be marked as cutting-off element. Power supply is not designed as a battery charger.

To prevent long-term failure-free operation, is recommended to use device in specified temperature range, not expose to extreme climatic condition, which have effect to longtime lifecycle of electronic components.

### **3. REPAIR INSTRUCTIONS**

Each device was subjected to components guality check control, pre-setting circuits and 24 hours burn-in on power supply. After 24 hours burn-in, was made pre-set parametres check. If device failure occurs (e.g. by overvoltage, mechanical damage, device malfunction ... ), that impact its own functionality, it is necessary to contact manufacturer, which will provide appropriate repair.

### **4. WARRANTY**

Manafacturer guarantees in accordance with §429 Commercial code (Czech Republic) for technical and operating characteristics, specified in accompanying technical documentation. Device has 36 months warranty and after warranty service is provided. This warranty does not apply: (a) to damage caused by accident, abuse, misuse, misapplication; (b) to unauthorized repair or modification or (c) if serial number has been removed or defaced.



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