

# DC POWER DISTRIBUTION MODULE

☐ BZK mod.01

**BZK mod.01**

☐ BZK mod.02

**BZK mod.02**

**ICO 9001**



## Instruction Manual

### 1 TECHNICAL INFORMATION

#### 1.1 General

1.1.1 BZK DC Power Distribution Module (hereinafter referred to as the BZK) distributes a single DC input (from an RIP-12, an RIP-24, or a similar power supply) over eight outputs. The two models of the BZK differ by their output current – see Clauses 1.2.3, 1.2.4.

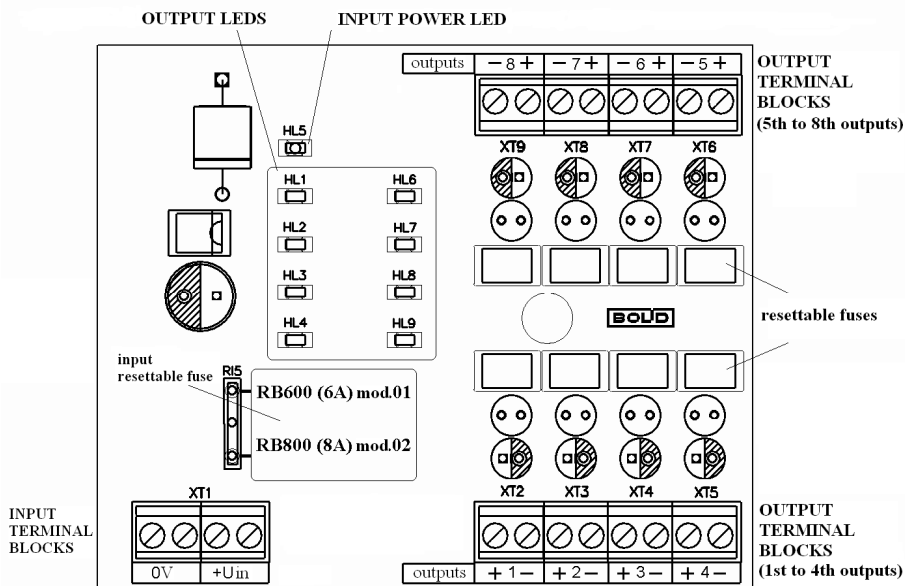
1.1.2 The BZK separately protects each of the eight outputs against excess current. Each DC output is protected by a resettable fuse and is equipped with a red LED (LEDs «1» to «8») to indicate an overcurrent condition for the output.

Green POWER LED indicates power is applied to the input.

1.1.3 The BZK provides protection against reverse polarity at the power input and restores operability after the failure is repaired.

1.1.4 Separate low pass filters (for each output individually) provide suppression of cross-talks such as line and frame pulses of video cameras, power wire cross-talks, external pulses.

1.1.5 The BZK is designed for round-the-clock operation.



**Figure 1. Terminal Blocks and LEDs**

## 1.2 Specifications

### 1.2.1 Input Voltage

– 10 V dc to 30 V dc

### 1.2.2 DC Outputs

– 8

### 1.2.3 Max Total Output Current (Total for 8 outputs):

– 5 A (for mod.01)

– 8 A (for mod.02)

### 1.2.4 Max Current from Each Output:

– 0.6 A (for mod.01)

– 1 A (for mod.02)

### 1.2.5 Operating Temperatures

– minus 30°C to +50°C

### 1.2.6 Overall Dimensions

– 156 mm x 107 mm x 39 mm

### 1.2.7 Weight

– 0.3 kg max

### 1.2.8 Ingress Protection Rating (IEC 529-89)

– IP30

### 1.2.9 Average Lifetime

– 8 years

## 1.3 Standard Delivery

### 1) Distribution Module

– 1

### 2) This Instruction Manual

– 1

### 3) Woodscrews

– 3

### 4) Wall Plugs

– 3

### 5) DIN 7982 Flat Head Tapping Screw 2.2x6.5

– 1

### 6) Package

– 1

## 2 Operation Instructions

### 2.1 Preparing for Use

2.1.1 Attach the BZK in a convenient place (on a wall or other construction unit within the premises protected against atmospheric fallouts, mechanical damage, and unauthorized access). The module can be mounted on a  $\Omega$ -type 35 mm DIN rail. The overall and mounting dimensions are shown in Figure 2.

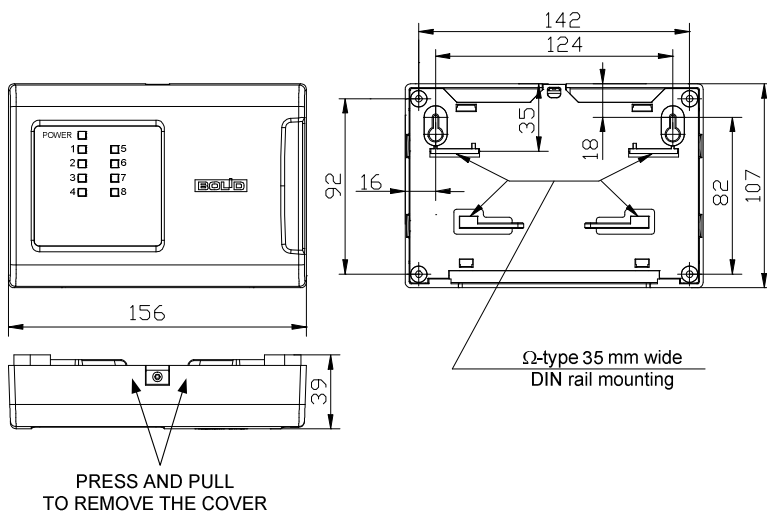


Figure 2

2.1.2 Mount the module and wire it in accordance with the connection diagram in Figure 3.

2.1.3 To provide more than eight outputs, the BZK is equipped with two input terminal blocks. One of the two blocks is designed to connect a next BZK in parallel (see Figure 4).

2.1.4 To increase the output current up to 1.2 A (for mod.01) and 2 A (for mod.02), two outputs of the BZK can be paralleled.

### Connection Diagram

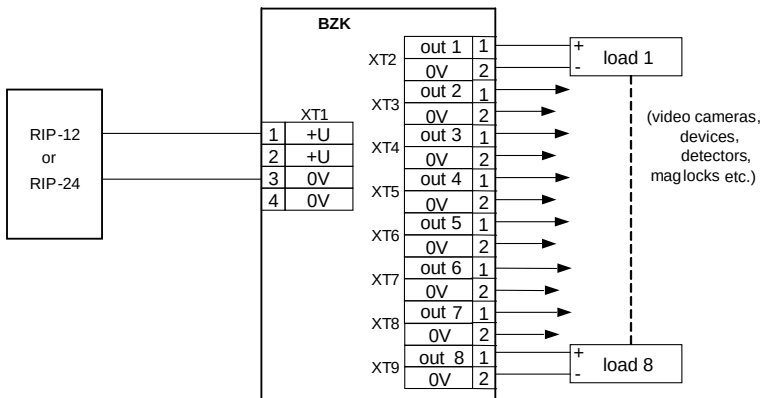


Figure 3

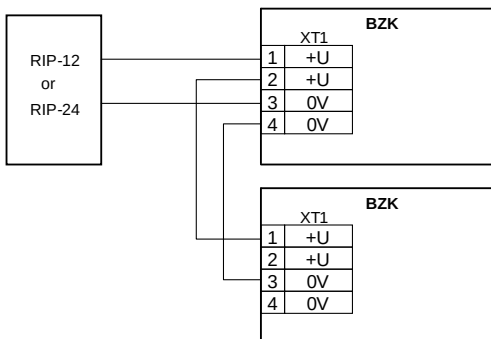


Figure 4

## 2.2 Operation

2.2.1 Switch the power supply on. Green POWER LED shall start lighting. LEDs «1» to «8» shall be off.

2.2.2 In case of an overcurrent during operation, the red LED of the relevant output starts lighting, other channels being enabled and under normal voltage.

2.2.3 To repair the overcurrent, switch off the input power supply (or remove the BZK cover and disconnect only the wires from the terminals of the output which red LED is on – in this case other outputs are supplied with power). After repairing the failure, switch the power supply on (or connect the wires), and the BZK will restore its operability.



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