

## Power supply unit (PSU)



### Type 8010/8011

This supply unit is allowed for the operation of 24 VDC sensors, such as vent- and flow-captors, with AC supply voltage. The supply unit contains a 24 VDC transformer rectifier and a switching circuit with output relay with potential free single pole double throw switching contact. An integrated LED plays the actual switching situation.

#### Housing

Makrolon housing with PG glands for sensor, mains and output connection for wall mounting. For applications where an AC power source is available on site.



#### Device variants

**Type 8010** : For PNP-switching sensors or sensors with analog output signal. On connection of an analog signal to the input of the supply unit a switch signal is activated which controls an integrated relay when a fixed threshold of 50% of the max. input signal is reached. This provides the possibility, when connecting flow- and vent-captors with adjustable measuring range, to vary the switching point on a large scale; e.g. for the flow-captor 4114.30 related to water at flow velocity between 10 cm/s and 100 cm/s, resp. for the vent-captor 3202.30 related to air between 50 cm/s to 25 m/s.

**Type 8011** : For NPN-switching sensors. With these devices, the output relay is controlled directly by the switching output of the sensor.

| Technical data             |  |  |                                    |
|----------------------------|--|--|------------------------------------|
| Type                       | <b>8011</b>  |  | <b>8010</b>                        |
| Sensor output              | NPN  |  | PNP or analogue                    |
| Connecting data for captor |  |  |                                    |
| supply                     | <b>9 - 36 VDC, 18 - 75 VDC</b><br>24 VDC max. 125 mA, short circuit detected         |  |                                    |
|                            | <b>85 - 264 VAC</b><br>24 VDC max. 230 mA, short circuit detected                    |  |                                    |
| Signal input               | $U_E \text{ on} \leq 6 \text{ V}$<br>$U_E \text{ off} \leq 18.5 \text{ V}$           | $R_i$ approx. 500 $\Omega$ ,<br>$I_e$ limited to 15 mA<br>threshold switch 12 mA,<br>hysteresis $\pm 0.8 \text{ mA}$ |                                    |
| Contact data of relay      |  |  |                                    |
| Switching voltage          | 30 VDC / 240 VAC   |  |                                    |
| Switching current          | 2.5 A AC/DC  |  |                                    |
| Mechanical data            |  |  |                                    |
| Protection class of PSU    | IP65 / DIN 40050<br>Air and creepage distances according to VDE 0110 Group C, 380 VE |  |                                    |
| Dimensions and mass of PSU | 120 x 80 x 55 mm, 440 g  |  |                                    |
| Electrical data            |  |  |                                    |
| Power consumption          | <b>9 - 36 VDC</b><br>max. 4 W  | <b>18 - 75 VDC</b><br>max. 4 W   | <b>85 - 264 VAC</b><br>max. 5.5 VA |

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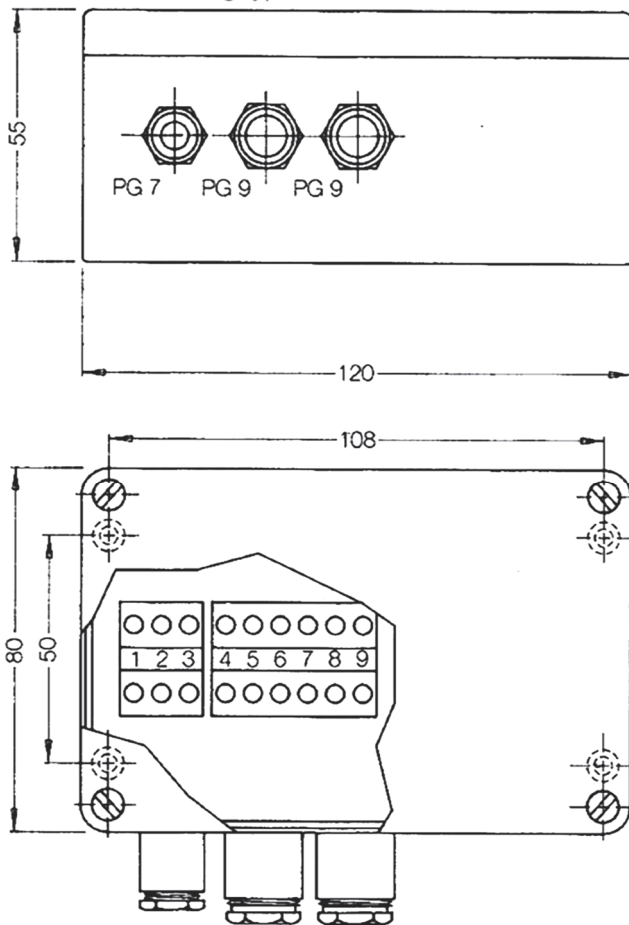
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## Type 8010/8011



Dimension drawing types 8010/8011



order description

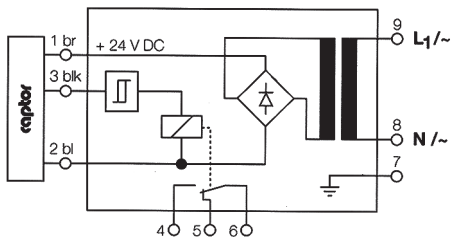
8010/ 9 - 36 VDC  
8010/ 18 - 75 VDC  
8010/ 85 - 264 VAC

8011/ 9 - 36 VDC  
8011/ 18 - 75 VDC  
8011/ 85 - 264 VAC

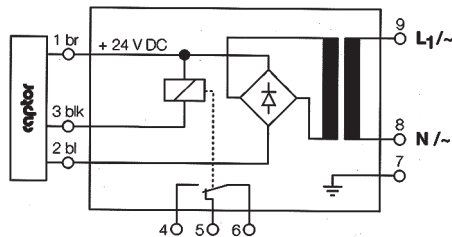
Fastening of housing 108 x 50 (screws M4)

Basic circuit diagrams 85 - 264 VAC

Supply unit 8010

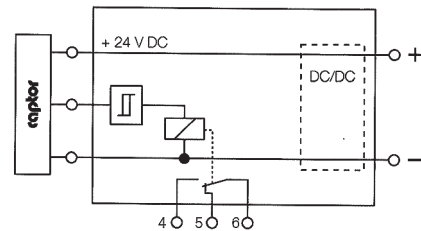


Supply unit 8011

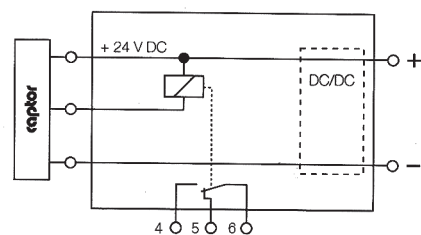


Basic output diagram 9 - 36 VDC, 18 - 75 VDC

Supply unit 8010



Supply unit 8011



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