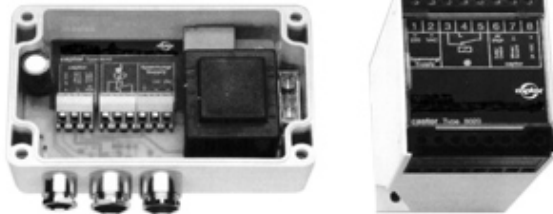


Supply Units Type 8010, 8011, 8020, 8021 for AC Connections

General Description

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



Housing Variations:

Type 8010, 8011: Macrolon housing with PG screwing for sensor, supply and output connection for wall mounting. For application where an AC Connection is available.

Type 8020, 8021: Clamp housing for standard bar as per DIN 46277 and DIN EN 50022 for the installation in switch cabinets or similar

Supply Unit Variations:

Type 8010, 8020: 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 and 15 m/s

Type 8011, 8021: For NPN-switching sensors. These units trigger the output relay directly from the switching output of the sensor.

Specifications

Technical Data

Type	8011/8021	8010/8020
Sensor output	NPN	PNP or analog

Connecting Data for captor

Supply	24V DC, max. 120 mA, short circuit protected	
Signal input	$U_{E_{on}} \leq 6 \text{ V}$ $U_{E_{off}} \geq 18.5 \text{ V}$	R_i approx. 500 Ohm, I_e limited to 15 mA, threshold switch 12 mA, hysteresis $\pm 0.8 \text{ mA}$

Contact Data of Relay

Switching voltage max.	30 V DC/240 V AC
Switching current max.	2.5A AC/DC

Supply Units Type 8010, 8011, 8020, 8021 for AC Connections

Mechanical Data

Protection standard	8010, 8011: macrolon housing IP65/DIN 40050 8020, 8021: clamp housing IP40* 8020K, 8021K: clamp housing with air gaps IP20* *(Clamps: IP20 and contact protected accord. to VDE 0100 part 750 and VBG4) Air gap and creepage distance according to VDE 0110 Group C, 380 VE
Sizes (l x w x h) and Mass	8010, 8011: macrolon housing: (120x80x55) mm, 440 g 8020,8021: clamp housing: (55x75x110) mm, 350 g

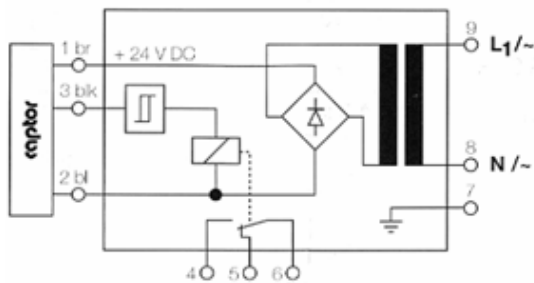
Electrical Data

Type 80--/	12 V DC	24 V DC	48 V DC	24 V AC	115 V AC	230 V AC
Voltage tolerance	±10%	±10%	+20%/-30%	±10%	+6%/-15%	+6%/-15%
Power consumption	max. 6 W	max. 6 W	max. 6 W	max. 6 VA	max. 6 VA	max. 6 VA
Internal protection	0,5 T	0,4 M	0,4 M	0,5 T	0,1 T	0,05 T

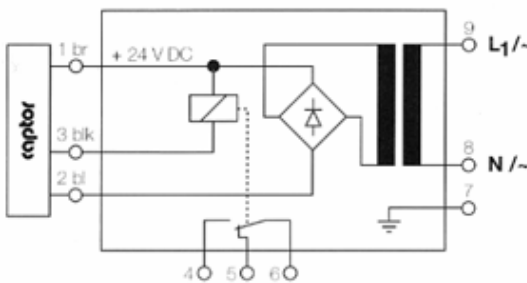
Basic circuit diagrams

24 V AC-, 115 V AC-, 230 V AC Types

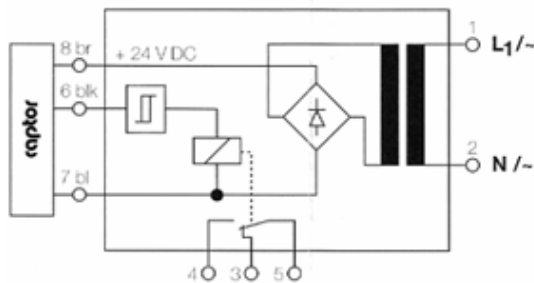
Supply unit 8010



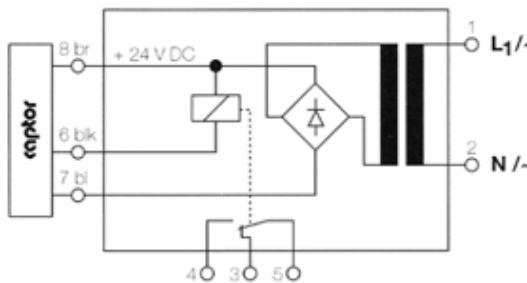
Supply unit 8011



Supply unit 8020

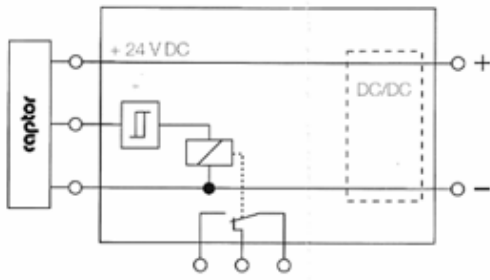


Supply unit 8021

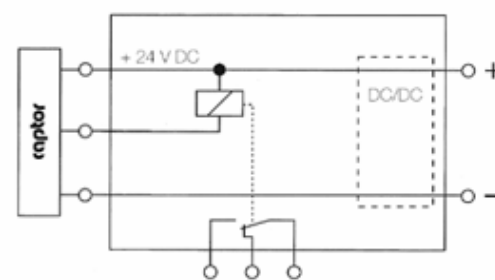


12 V DC, 24 V DC, 48 V DC Types

Supply unit 8010, 8020



Supply unit 8011, 8021

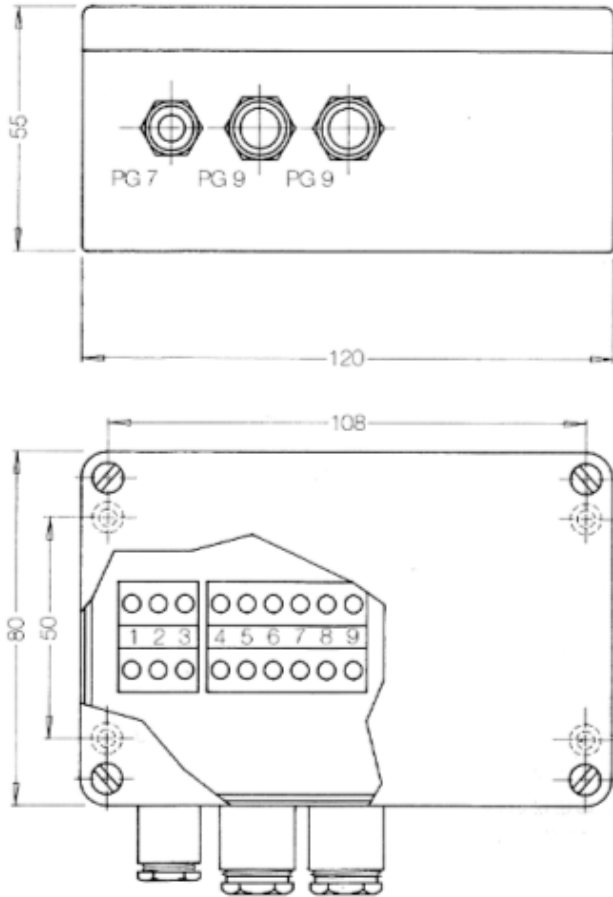


Terminal numbers as above

Supply Units Type 8010, 8011, 8020, 8021 for AC Connections

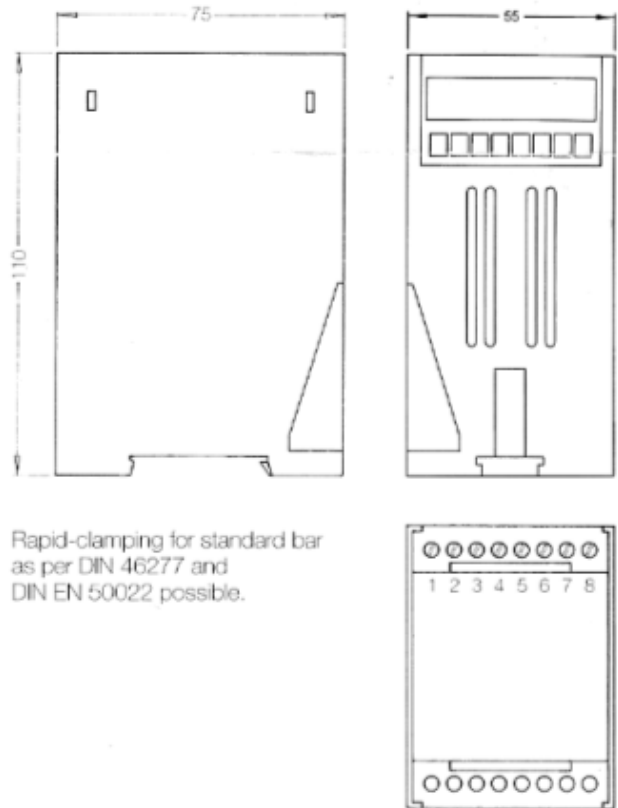
↩ Dimensions

Dimensioned Drawing Type 8010, 8011



Fastening of housing 108 x 50 (screws M4)

Dimensioned Drawing Type 8020, 8021



Rapid-clamping for standard bar as per DIN 46277 and DIN EN 50022 possible.

Order Description

8010 / 12 VDC	8020 / 12 VDC
8010 / 24 VDC	8020 / 24 VDC
8010 / 48 VDC	8020 / 48 VDC
8010 / 24 VAC	8020 / 24 VAC
8010 / 115 VAC	8020 / 115 VAC
8010 / 230 VAC	8020 / 230 VAC
8011 / 12 VDC	8021 / 12 VDC
8011 / 24 VDC	8021 / 24 VDC
8011 / 48 VDC	8021 / 48 VDC
8011 / 24 VAC	8021 / 24 VAC
8011 / 115 VAC	8021 / 115 VAC
8011 / 230 VAC	8021 / 230 VAC