

# weber supply units Type 8010, 8011, 8020, 8021 for AC connections



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 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 Variations:

Type 8010, 8011: Macrolon housing with PG screwing for sensor supply and output connection for wall mounting. For applications 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.



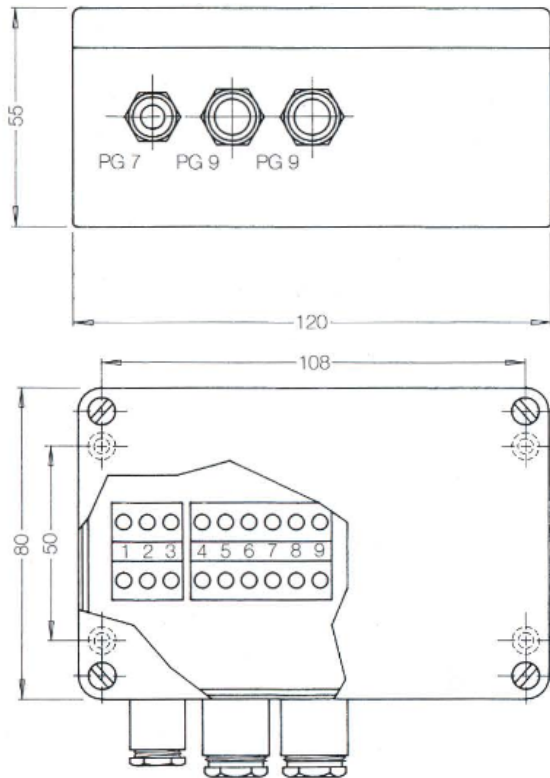
Technical Data		8011/8021	8010 / 8020			
Type		8011/8021	8010 / 8020			
Sensor output		NPN	PNP or Analog			
Connecting Data for captor						
supply		24 VDC, max. 120 mA, short circuit detected				
Signal input		$U_E \text{ on} \leq 6 \text{ V}$ $U_E \text{ off} \leq 18,5 \text{ V}$	$R_i$ approx. 500 $\Omega$ $I_o$ limited to 15 mA threshold switch 15 mA, hysteresis $\pm 0,8 \text{ mA}$			
Contact Data of Relay						
Switching voltage max.		30 VDC/240VAC				
Switching current max.		2,5 A AC/DC				
Mechanical Data						
Protection standard		8010, 8011 : macrolon housing IP 65 / DIN 40050 8020, 8021: clamp housing IP 40* 8020K, 8021K: clamp housing with air gaps IP20* *(clamps: IP20 and contact protected accord to VDE 100 Teil 750 und VBG 4) Airgap and creepage distance according to VDE 0110 Gruppe C, 380 VE				
Sizes (l x w x h) und Mass		8010, 8011 : macrolon housing ( 120 x 80 x 55) mm, 440 g 8020, 8021: clamp housing: (55x75x110) mm, 350g				
Electrical Data						
Type 80xx /	12VDC	24VDC	48VDC	24VAC	115 VAC	230VAC
Voltage tolerance	$\pm 10\%$	$\pm 10\%$	+20%/-30%	$\pm 10\%$	+6%/-15%	+6%/-15%
Power consumption	max. 6W	max. 6W	max. 6W	max. 6VA	max. 6VA	max. 6VA
Internal protection	0,5T	0,4M	0,4M	0,5T	0,1 T	0,05 T



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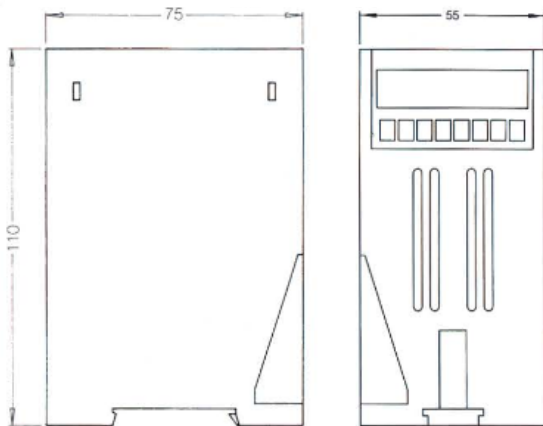


Dimensioned Drawing Type 8010, 8011

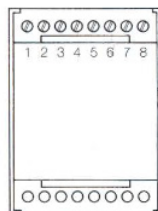


Fastening of housing 108 x 50 screws M4

Dimensioned Drawing Type 8020, 8021



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

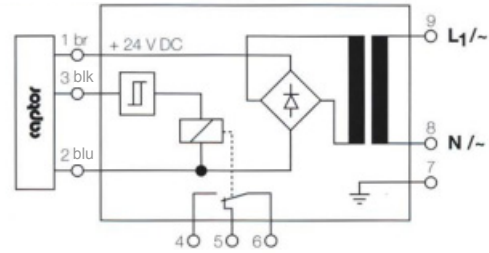


## Order Description

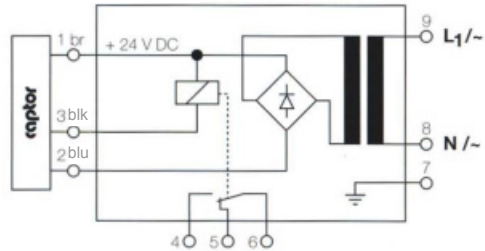
8010/ 12 VDC	8020/ 12 VDC
8010/ 24 VDC	8020/ 24 VDC
8010/ 48 VDC	8020/ 48 VDC
8010/ 24 VAC	8020/ 24 VAC
8010/ 115 VAC	8020/ 115 VAC
8010/ 230 VAC	8020/ 230 VAC
8011/ 12 VDC	8021/ 12 VDC
8011/ 24 VDC	8021/ 24 VDC
8011/ 48 VDC	8021/ 48 VDC
8011/ 24 VAC	8021/ 24 VAC
8011/ 115 VAC	8021/ 115 VAC
8011/ 230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

## Basic circuit diagrams 24 V AC-, 115 V AC-, 230 V AC Types

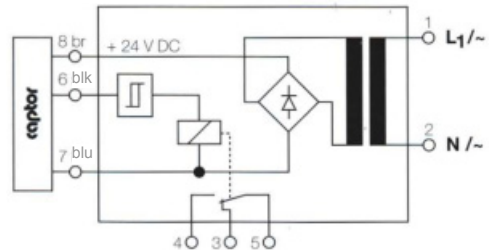
Supply unit 8010



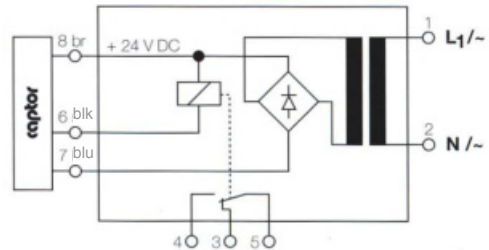
Supply unit 8011



Supply unit 8020

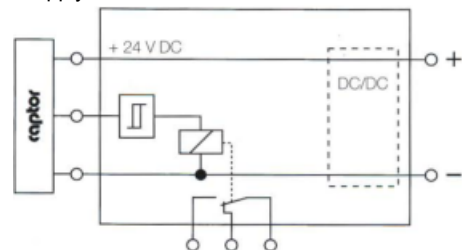


Supply unit 8021

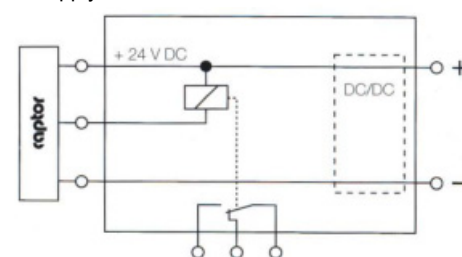


12 VDC, 24 VDC, 48 VDC Types

Supply unit 8010, 8020



Supply unit 8011, 8021



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