

weber supply units Type 8010, 8011, 8020, 8021

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 voltage connection is already 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

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

Connecting Data for captor

supply	9-36 VDC, 18-75 VDC, max. 125 mA, short circuit detected 85-264 VAC max. 230 mA	
Signal input	$U_E \text{ on} \leq 6 \text{ V}$ $U_E \text{ off} \leq 18,5 \text{ V}$	R_i approx. 500 Ω I_e 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

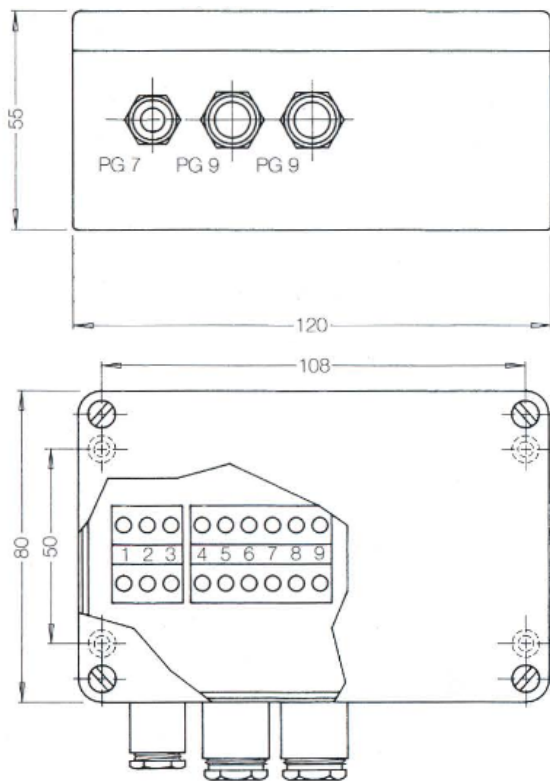
Electrical Data

Type 80xx /	9-36 VDC	18-75 VDC	85-264 VAC
Power consumption	max. 6W	max. 6W	max. 6VA

weber

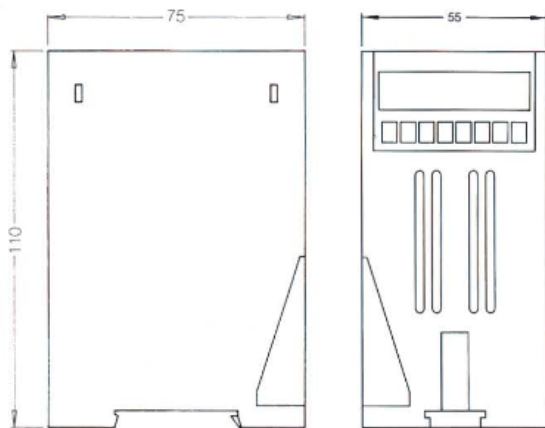
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Dimensioned Drawing Type 8010, 8011

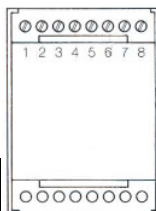


Fastening of housing 108 x 50 screws M4

Dimensioned Drawing Type 8020, 8021



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

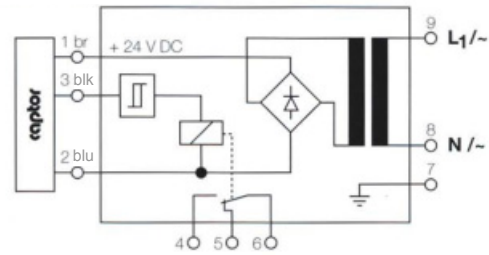


Order Description

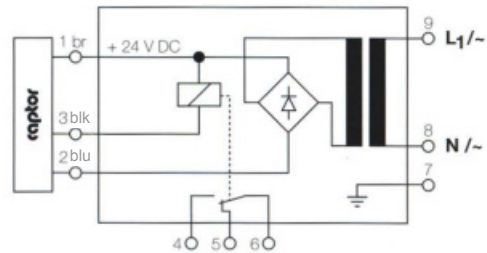
8010/ 9 - 36 VDC	8020/ 9 - 36 VDC
8010/ 18 - 75 VDC	8020/ 18 - 75 VDC
8010/ 85 - 264 VAC	8020/ 85 - 264 VAC
8011/ 9 - 36 VDC	8021/ 9 - 36 VDC
8011/ 18 - 75 VDC	8021/ 18 - 75 VDC
8011/ 85 - 264 VAC	8021/ 85 - 264 VAC

Basic circuit diagrams 85 - 264 VAC

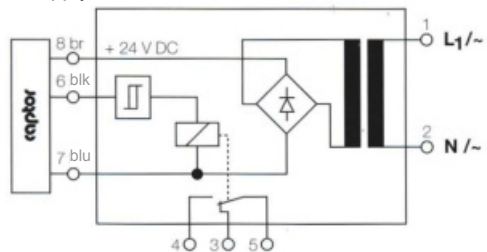
Supply unit 8010



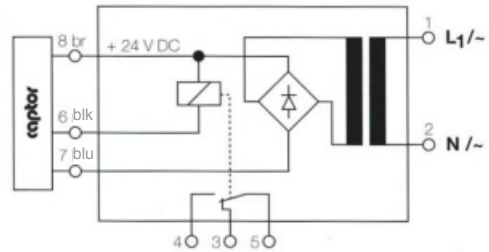
Supply unit 8011



Supply unit 8020

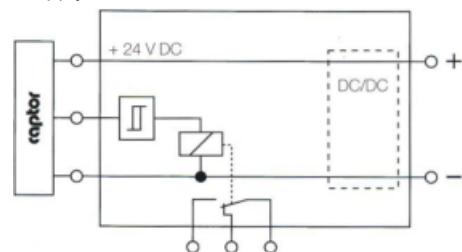


Supply unit 8021



9 - 36 VDC, 18 - 75 VDC

Supply unit 8010, 8020



Supply unit 8011, 8021

