

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

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.

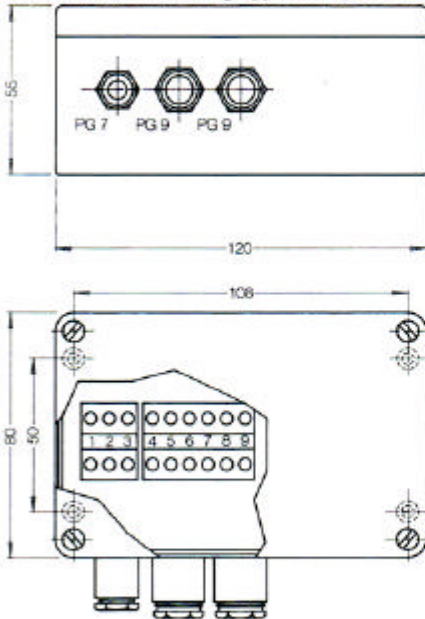
Type 8011, 8021: For NPN-switching sensors. These units trigger the output relay directly from the switching output of the sensor.

The supply units allow for the operation of 24 V DC 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.

Supply units

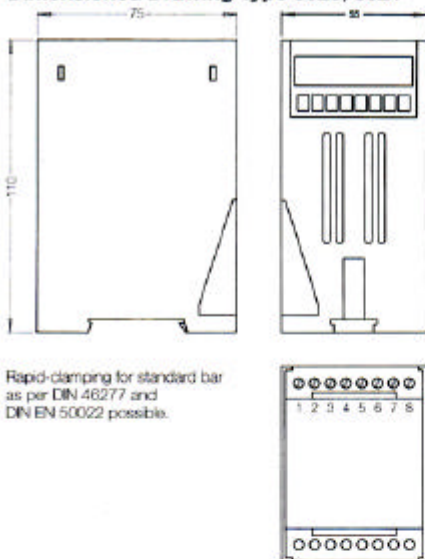
Type 8010, 8011, 8020, 8021

Dimensioned Drawing Type 8010, 8011



Fastening of housing 108 x 60 (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

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Technical Data

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

Connecting Data for captor

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

Contact Data of Relay

Switching voltage max.	30 V DC / 240 V AC
Switching current max.	2,5 A AC / DC

Mechanical Data

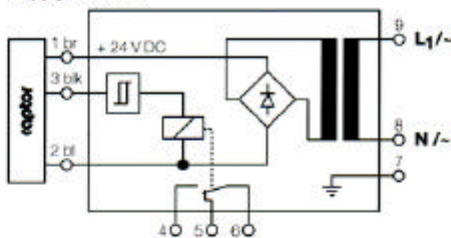
Protection standard	8010, 8011: macrolon housing IP 65 / DIN 40050 8020, 8021: clamp housing IP 40* 8020K, 8021K: clamp housing with air gaps IP20* *(clamps: IP 20 and contact protected accord. to VDE 0100 part 750 and VBG 4) Air gap and creepage distance according to VDE 0110 Group C, 360 VE
Sizes (l x w x h) and Mass	8010, 8011: macrolon housing: (120 x 80 x 55) mm, 440 g 8020, 8021: clamp housing: (55 x 75 x 110) mm, 350 g

Electrical Data

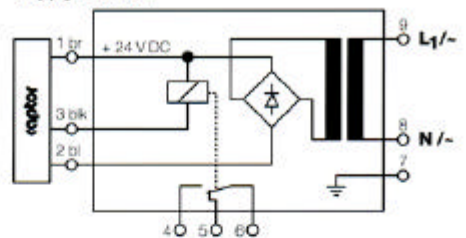
Type 80-- /	12 V DC	24 V DC	48 V DC	24 V AC	115 V AC	230 V AC
Voltage tolerance	$\pm 10\ %$	$\pm 10\ %$	+20%/-30%	$\pm 10\ %$	+6%/-15%	+6%/-15%
Power consumption	max. 6 W	max. 6 W	max. 6 W	max. 6 VA	max. 6 VA	max. 6 VA
Internal protection	0,5 T	0,4 M	0,4 M	0,5 T	0,1 T	0,05 T

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

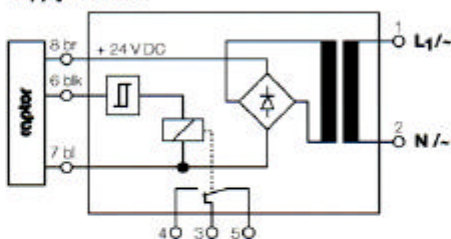
Supply unit 8010



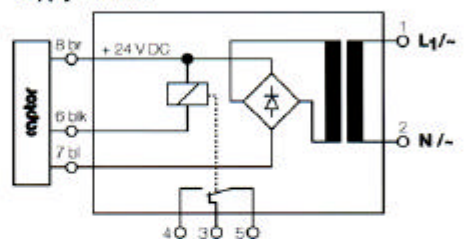
Supply unit 8011



Supply unit 8020

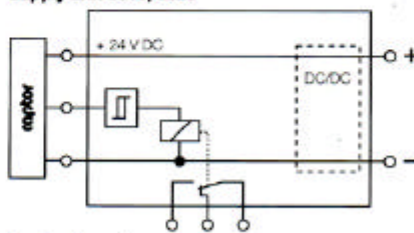


Supply unit 8021

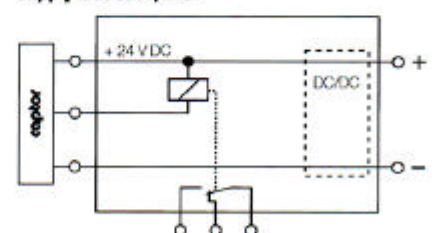


12 V DC, 24 V DC, 48 V DC Types

Supply unit 8010, 8020



Supply unit 8011, 8021



Terminal numbers as above