

## Type 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 shows the actual switching situation.

### Housing:

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 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 150 cm/s.

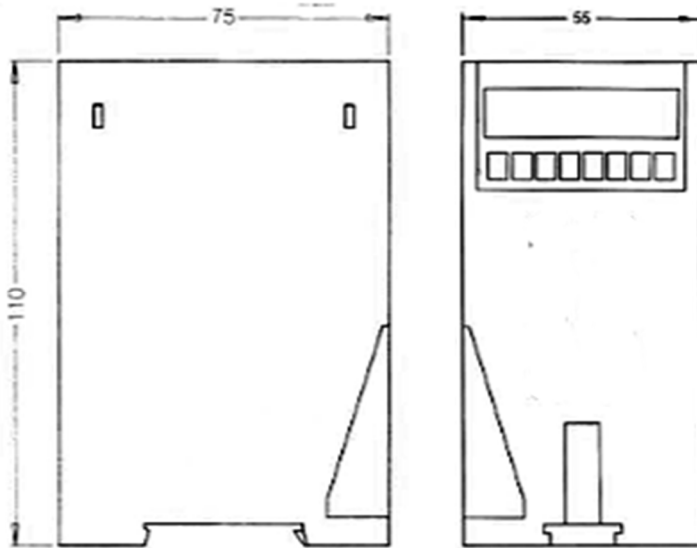
Type 8021: For NPN-switching sensors. These units trigger the output relay directly from the switching output of the sensor.



### Technical Data

Type	8021		8020			
Sensor output	NPN		PNP or Analog			
<b>Connecting Data for captor</b>						
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 $\Omega$ $I_a$ limited to 15 mA threshold switch 15 mA, hysteresis $\pm 0,8 \text{ mA}$			
<b>Contact Data of Relay</b>						
Switching voltage max.	30 VDC/240VAC					
Switching current max.	2,5 A AC/DC					
<b>Mechanical Data</b>						
Protection standard	8020, 8021: clamp housing IP 40* *(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	8020, 8021: clamp housing: (55x75x110) mm, 350g					
<b>Electrical Data</b>						
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

Dimensioned Drawing Type 8020, 8021



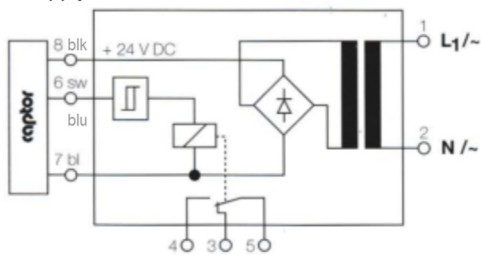
Rapid-clamping for standard bar as per DIN 46277  
DIN EN 50022 possible

Order Description

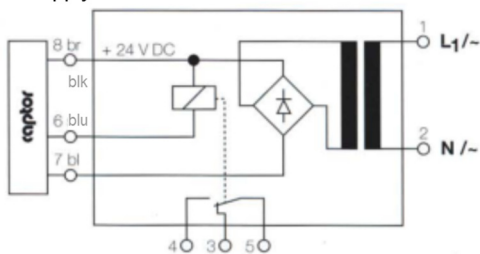
8020/ 12 VDC
8020/ 24 VDC
8020/ 48 VDC
8020/ 24 VAC
8020/ 115 VAC
8020/ 230 VAC
8021/ 12 VDC
8021/ 24 VDC
8021/ 48 VDC
8021/ 24 VAC
8021/ 115 VAC
8021/ 230 VAC

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

Supply unit 8020

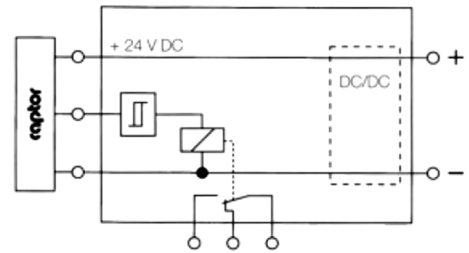


Supply unit 8021



12 VDC, 24 VDC, 48 VDC Types

Supply unit 8010, 8020



Supply unit 8011, 8021

