

This supply unit is allowed for the operation of 24 VDC sensors, such as vent- and flow-captors with AC supply voltage. It 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.

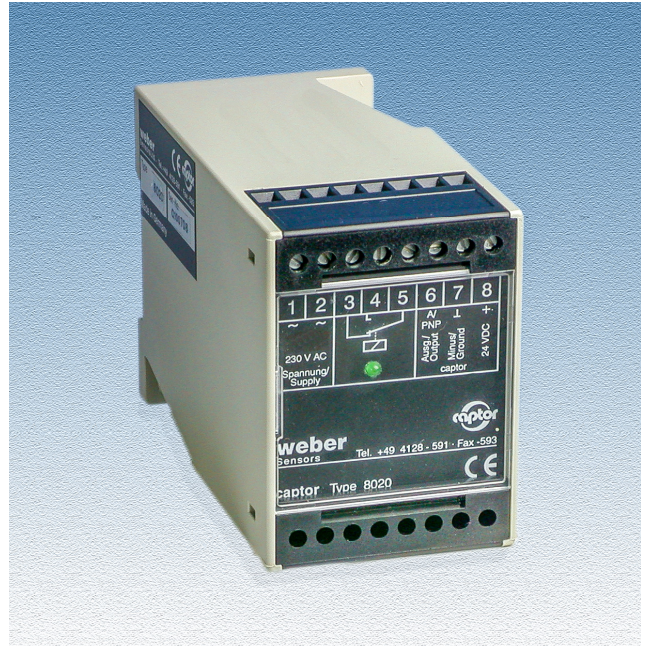
Housing:

Clamp housing for standard bar as per DIN 46277 and DIN EN 50022 for the installation in switch cabinets or similar.

Supply Unit Variations:

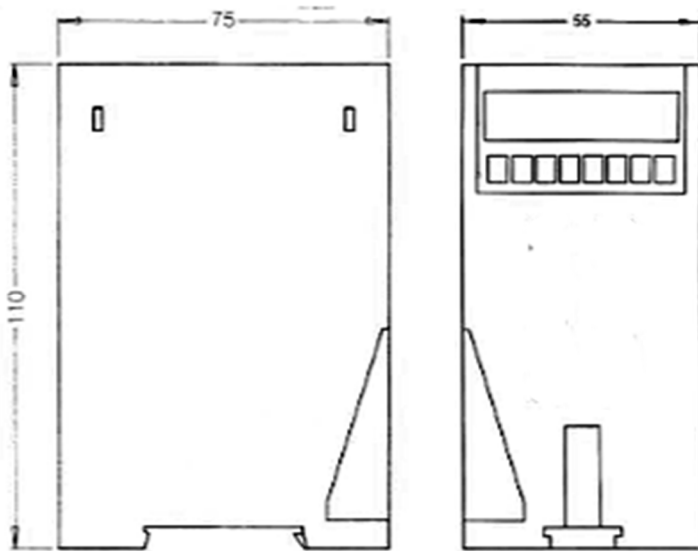
Type 8020 : For PNP-switching sensors or sensors with analog output signal. On connection of an analog signal to the input of the supply unit a switch signal is activated which controls an integrated relay when a fixed threshold of 50% of the max. input signal is reached. This provides the possibility, 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 | |
| Connecting data | | | | | | |
| 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 Ω 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 | 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) and mass | clamp housing: 55x75x110 mm, 350g | | | | | |
| Electrical data | | | | | | |
| Voltage tolerance | 12VDC | 24VDC | 48VDC | 24VAC | 115 VAC | 230VAC |
| | $\pm 10\%$ | $\pm 10\%$ | +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



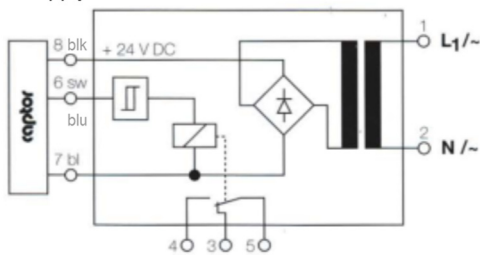
Rapid-clamping for standard bar as per DIN 46277
DIN EN 50022 possible

Order Description

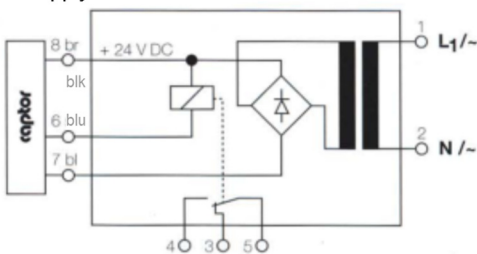
| |
|---------------|
| 8020/ 12 VDC |
| 8020/ 24 VDC |
| 8020/ 48 VDC |
| 8020/ 24 VAC |
| 8020/ 115 VAC |
| 8020/ 230 VAC |
| 8021/ 12 VDC |
| 8021/ 24 VDC |
| 8021/ 48 VDC |
| 8021/ 24 VAC |
| 8021/ 115 VAC |
| 8021/ 230 VAC |

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

Supply unit 8020

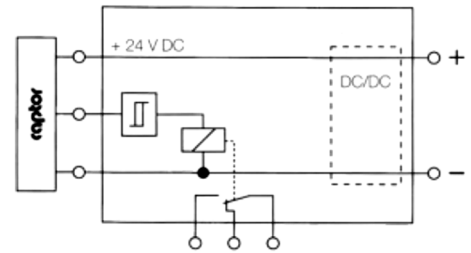


Supply unit 8021



12 VDC, 24 VDC, 48 VDC Types

Supply unit 8010, 8020



Supply unit 8011, 8021

