

Type 8010/8011 optocoupler

This PSU allows the operation of 24 VDC sensors, such as vent- and flow-captor units. It contains a 24 VDC power supply and a switching stage with optocoupler output with potential-free switching contact. An integrated LED indicates the switching status.

Housing

Makrolon housing with PG glands for sensor, mains and output connection for wall mounting. For applications where an AC power source is available on site.



Device variants

Type 8010: 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 to 25 m/s.

Type 8011: For NPN-switching sensors. With these devices, the output relay is controlled directly by the switching output of the sensor.

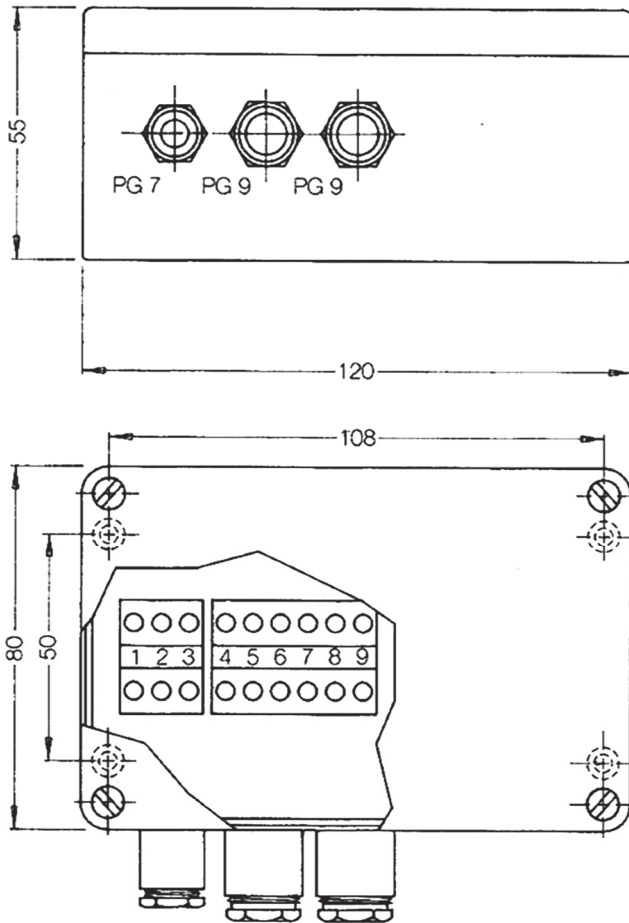
Technical data			
Type	8011		8010
Sensor output	NPN		PNP or analogue
Connection data for captor			
Operating voltage	9 - 36 VDC, 18 - 75 VDC 24 VDC max. 125 mA (230 mA on request), short circuit detected		
	85 - 264 VAC 24 VDC max. 230 mA, short circuit detected		
Signal input	$U_E \text{ on} \leq 6 \text{ V}$ $U_E \text{ off} \leq 18.5 \text{ V}$	R_i approx. 500 Ω , I_e limited to 15 mA threshold switch 12 mA, hysteresis $\pm 0.8 \text{ mA}$	
Optocoupler data			
Switching voltage	max. 350 VDC or peak VAC		
Switching current	max. 120 mA AC/DC		
Mechanical data			
Protection class of PSU	IP65 / DIN 40050 Air and creepage distances according to VDE 0110 Group C, 380 VE		
Dimensions and mass of PSU	120 x 80 x 55 mm, 440 g		
Electrical data			
Power consumption	9 - 36 VDC	18 - 75 VDC	85 - 264 VAC
	max. 4 W	max. 4 W	max. 5.5 VA

Power supply unit (PSU)

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Dimension drawing types 8010/8011



order description

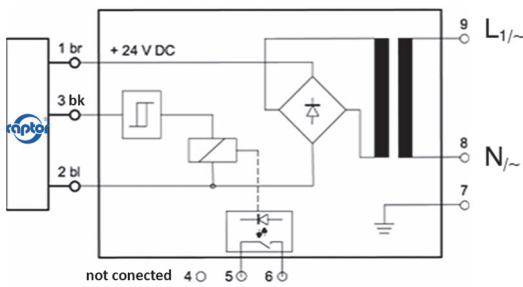
8010/ 9 - 36 VDC
8010/ 18 - 75 VDC
8010/ 85 - 264 VAC

8011/ 9 - 36 VDC
8011/ 18 - 75 VDC
8011/ 85 - 264 VAC

Fastening of housing 108 x 50 (screws M4)

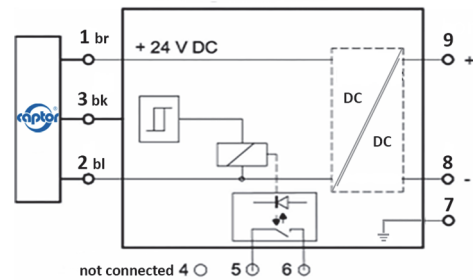
Basic circuit diagrams 85 - 264 VAC

Supply unit 8010

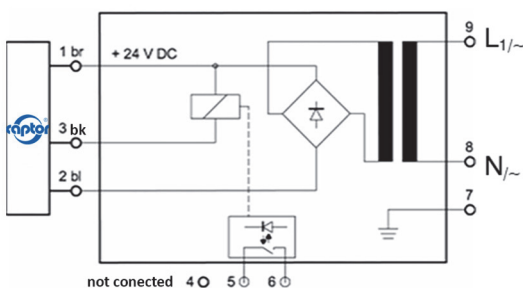


Basic output diagram 9 - 36 VDC, 18 - 75 VDC

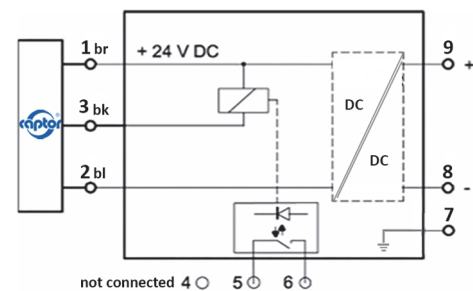
supply unit 8010



Supply unit 8011



supply unit 8011



weber

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