

The stabilised compact power supply unit NTC5 is excellently qualified to be used as a power supply unit for small components of the control technique, e.g. proximity switches, light barriers or sensors. An integrated switching relay with 2 change-over contacts can be used by the connected sensors as a switching amplifier. The output voltage is durable short-circuit proof.



- Wide input voltage range AC 85-264V, DC 110-260V
- Output DC24V / 450mA stabilised
- Compact DIN-housing, width just 25mm
- Inclusive switching relay with 2 change-over contacts
- LEDs for secondary voltage and relays
- Short-circuit-proof output voltage

Structure and application

The input voltage range of AC85-264V or DC110-264V makes possible the employment of only one variant for all usual AC/DC operation voltages. The max. permanent output current of NTC5 is 550mA at an ambient temperature of 55°C. The stabilised DC24V output voltage is galvanically separate from the input voltage.

Integrated switching relay

An integrated switching relay with 2 change-over contacts can be used by the connected sensors as a switching amplifier. The power-on signal and the switching status are shown by LEDs.

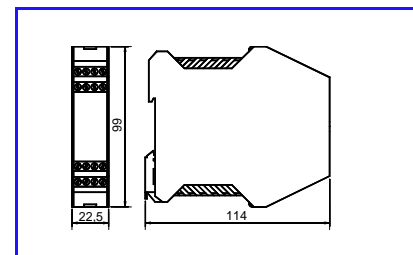
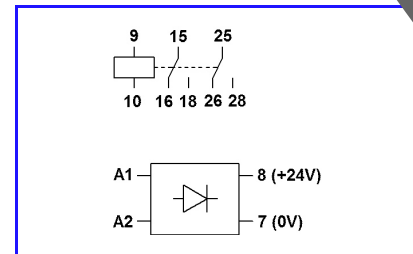
The polarity of the relay control 9-10 is random, the power consumption of the relay is approx. 40mA. Because of the protection of this input, a controlling via a transistor stage is possible without a problem, there will be also no hazardous of these components.

Overload and temperature rise protection

The voltage output 7-8 is permanently short-circuit-proof. In case of overload the output 7-8 switches off and is automatically ready for use again after removal of the overload. Same applies to thermal overloading. Furthermore NTC5 is varistor-protection-wired against overvoltage at the input side. Thus the equipment is almost indestructible with normal installation.

Installation

The PE terminal must be connected with protective ground for EMC reasons. A parallel connection of the output voltages of several NTC5 is not allowed, probably however a series connection. The ventilation slots at the housing's upper and lower surface must be kept free.



Order-No	Type
471260	NTC5 AC 85-264V / DC24V

Specifications	
Standards	EN60950, DIN/VDE0160
Operating voltage (input)	AC 85-264V 47-440Hz, DC 110-264V
Power consumption	approx. 15VA
LEDs	yellow: stand by green: relay contact 15-18 / 25-28 switched
Voltage output	DC24V stabilised permanently short-circuit-proof; 23,0...25,0V
Output current	$I_n = 450\text{mA}$, max. 550mA at $T=55^\circ\text{C}$
Residual ripple	max. 260mV
Power consumption relay	approx. 40mA at contact 9-10
Contacts	2 change-over contacts
Switching capacity	AC250V, max. 8A / AC12, max. 2.5A / AC15 DC 24V, max. 8A / DC12, max. 5A / DC13
Contact life	mechanical 2×10^7 operations
Dielectric strength	Input/Output: AC 3kV, Input/PE: AC 2kV
Protection	IP20
Temperature range	-10°C bis $+55^\circ\text{C}$
Weight	approx. 160g
Mounting	DIN-rail mounting DIN EN 50022-35