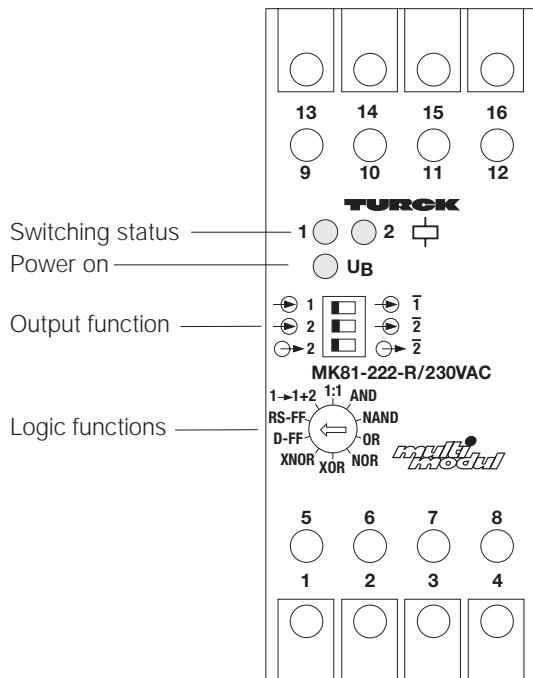


## Amplifier Relay MK81-222-R



- **2 channel supply for 3-wire sensors (pnp and npn) and 2-wire sensors according to EN 50227 (NAMUR)**
- **Monostable transmission, multiplication, 8 selectable logic functions**
- **Separately adjustable output function of each channel**
- **2 relay outputs with 1 SPDT contact each**

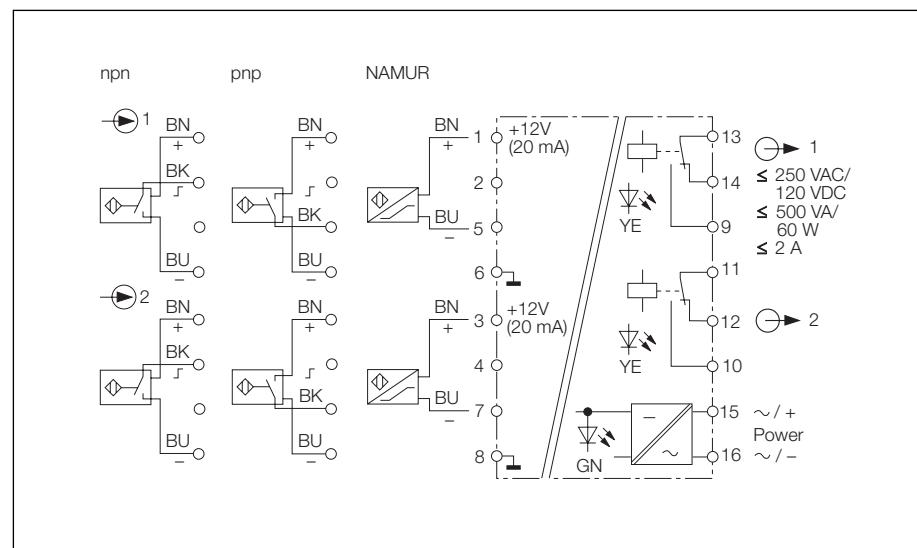
The amplifier relay MK81-222-R is suited for connection of two proximity switches according to EN 50227 or 3-wire sensors (pnp or npn). The current consumption of each sensor may not exceed 20 mA (admissible total current 40 mA).

The device features two relay outputs with one hard gold plated SPDT contact per channel. A front panel rotary switch serves to adjust the following functions:

- transmission 1:1 (monostable)
- multiplication, two relay outputs are assigned to input 1
- AND logic
- NAND logic
- OR logic
- NOR logic
- XOR logic
- XNOR logic
- RS flipflop
- D flipflop

The output function mode can be adjusted via front panel switches. The input states may be inverted to adapt the logic functions to the sensors. In the monostable function mode, an inversion accords to a change of the output function. Additionally, it is possible to change the output function mode of relay 2 via the third switch.

The switching status of each relay is indicated via a yellow LED.



# Power Supplies and Power Monitors



<b>Type</b>	MK81-222-R/230VAC 75 450 02	MK81-222-R/24VDC 75 450 01
<b>Operating Voltage <math>U_B</math></b>	184...264 VAC 48...62 Hz $\leq 5$ VA between input circuit and output circuit and supply voltage	10...30 VDC – $\leq 5$ W between input circuit and output circuit and supply voltage
<b>Input Circuits</b>	3-wire sensors, pnp 3-wire sensors, npn 2-wire sensors, NAMUR	3-wire sensors, pnp 3-wire sensors, npn 2-wire sensors, NAMUR
<b>Sensor supply</b>	12 V $\pm 5$ %, stabilised $\leq 1$ % $\leq 40$ mA	12 V $\pm 5$ %, stabilised $\leq 1$ % $\leq 40$ mA
<b>Output Circuits</b>	2 relay outputs each 1 SPDT contact, AgCdO + 3 $\mu$ Au $\leq 250$ VAC $\leq 2$ A $< 500$ VA/60 W	2 relay outputs each 1 SPDT contact, AgCdO + 3 $\mu$ Au $\leq 250$ VAC $\leq 2$ A $< 500$ VA/60 W
<b>LED Indications</b>	– Power "ON" – Switching status	green 2 x yellow
<b>Housing</b>	16-pole, 36 mm wide, Polycarbonate/ABS flammability class V-0 per UL 94 snap-on clamps for top-hat rail (DIN 50022) or screw terminals for panel mounting via flat terminals with self-lifting pressure plates $\leq 2 \times 2.5$ mm <sup>2</sup> or $2 \times 1.5$ mm <sup>2</sup> with wire sleeves IP20 $-25 \dots +60$ °C	16-pole, 36 mm wide, Polycarbonate/ABS flammability class V-0 per UL 94 snap-on clamps for top-hat rail (DIN 50022) or screw terminals for panel mounting via flat terminals with self-lifting pressure plates $\leq 2 \times 2.5$ mm <sup>2</sup> or $2 \times 1.5$ mm <sup>2</sup> with wire sleeves IP20 $-25 \dots +60$ °C

