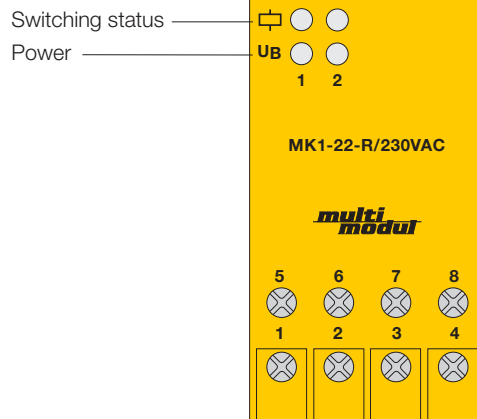




Switching Amplifier MK1-22-R/230VAC MK1-22-R/24VUC 2-channel

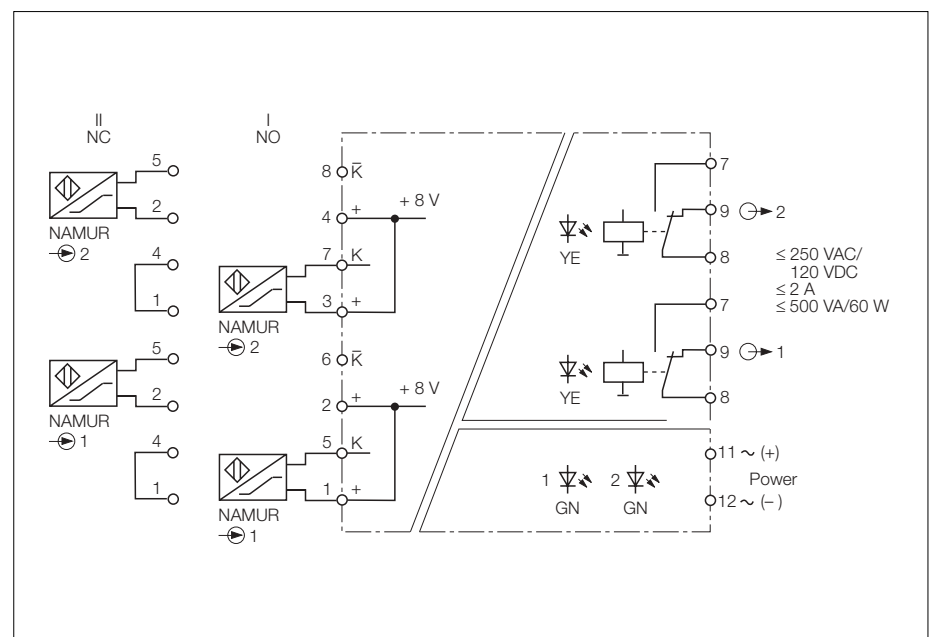
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- **2-channel switching amplifier**
- **Input circuits according to EN 60947-5-6 (NAMUR)**
- **Galvanic isolation between input circuits, output circuits and supply voltage**
- **The 230 VAC device provides additional galvanic isolation from power supply**
- **2 relay outputs, each with one SPDT contact**
- **Selectable NO/NC output function**

The switching amplifiers type MK1-22-R are dual channel devices with input circuits according to EN 60947-5-6 (NAMUR). They can be used in conjunction with sensors conforming to EN 60947-5-6 (NAMUR), variable resistors or potential-free contacts. Each output circuit features a relay with SPDT contact.

Connecting the sensors according to possibility (I) of the block diagram, selects the normally open (NO) output mode. If connected according to possibility (II), the normally closed (NC) output function is selected.

The green LED on the front cover indicates that the devices are powered separately for each channel. The yellow LED indicates the output switching status.



Switching Amplifier MK1-22-R

Type	MK1-22-R/230VAC	MK1-22-R/24VUC
Ident-no.	7540020	7540027
Supply voltage U_B	196...253 VAC	19...29 VUC
Line frequency/ripple W_{PP}	48...62 Hz	48...62 Hz
Power/current consumption	≤ 3 VA	≤ 2 VA
Galvanic isolation	between input circuit, output circuit and supply voltage for 250 V_{rms} , test voltage 4 kV_{rms}	between input circuit and output circuit and supply voltage for 250 V_{rms} , test voltage 4 kV_{rms}
Input circuits	according to EN 60947-5-6 (NAMUR)	according to EN 60947-5-6 (NAMUR)
Operating characteristics		
– Voltage	8.2 V	8.2 V
– Current	8.2 mA	8.2 mA
Switching threshold	1.55 mA	1.55 mA
Hysteresis	typ. 0.2 mA	typ. 0.2 mA
Output circuits	2 relay outputs (SPDT)	2 relay outputs (SPDT)
Switching voltage	≤ 250 VAC/120 VDC	≤ 250 VAC/120 VDC
Switching current per output	≤ 2 A	≤ 2 A
Switching capacity per output	≤ 500 VA/60 W	≤ 500 VA/60 W
Switching frequency	≤ 10 Hz	≤ 10 Hz
Contact material	silver-alloy + 3 μm Au	silver-alloy + 3 μm Au
LED indications		
– Power	green	green
– Switching status	yellow	yellow
Housing	16-pole, 36 mm wide, Polycarbonate/ABS, flammability class V-0 per UL 94	
Mounting	snap-on clamps for top-hat rail (DIN 50022) or screw terminals for panel mounting	
Connection	via flat terminals with self-lifting pressure plates	
Connection profile	$\leq 2 \times 2.5$ mm ² or 2×1.5 mm ² with wire sleeves	
Degree of protection (IEC 60529/EN 60529)	IP20	
Operating temperature	-25...+60 °C	

